

## REVIEW ON AREA, PRODUCTION AND PRODUCTIVITY OF COCONUT IN INDIA

Raghavi. MD<sup>1</sup>, Sakthi Balaa. M<sup>2</sup>, Surender. S<sup>3</sup>, Lokesh. P<sup>4</sup> & Kalidas. K<sup>5</sup>

<sup>1,2,3,4</sup>Research Scholar, Department of Social Science, Vanavarayar Institute of Agriculture, Pollachi, Tamil Nadu, India

<sup>5</sup>Assistant Professor, Department of Social Science, Vanavarayar Institute of Agriculture, Pollachi, Tamil Nadu, India

---

Received: 02 Jan 2019

Accepted: 12 Jan 2019

Published: 17 Jan 2019

---

### ABSTRACT

Coconut plays an important role in contributing to India's GDP of about 15,000 crore rupees and 72% of world's total production is from India and productivity is also high in India. In India, Tamil Nadu tops the list in the productivity of coconut, but production is high in Karnataka and Kerala tops in the area. In Tamil Nadu, Cuddalore district ranks first in productivity of coconut followed by Krishnagiri and Theni. Production wise, Tiruppur and Thanjavur rank first. Coconut, a versatile crop being used for various uses, but in India, almost 70 % of the coconut is used for the edible purpose.

**KEYWORDS:** Area, Coconut, Production, Productivity

### INTRODUCTION

In India, coconut farming is inseparably embedded in the socio-historical culture as well as the ethnic identity. Coconut tree (*Cocos nucifera*) is a member of the palm tree family (Arecaceae). The term "coconut" (or the archaic "coconut") can refer to the whole coconut palm, the seed, or the fruit, which botanically is a drupe, not a nut. Coconut palm provides food security and livelihood to the large size of the population in the world particularly, in Asia Pacific Countries. Considering the versatile nature of the crop and the multi-uses of its products, the coconut palm is eulogized as KALPAVRIKSHA (Tree of Heaven).

Coconut is a source of food, beverage, medicine, natural fiber, fuel, wood and raw materials for units producing a variety of goods. Coconut is also interlinked with socio-economic life of a large number of small and marginal farmers in peninsular India. It is estimated that about 12 million people in India are dependent on the coconut sector in areas of cultivation, processing and trading activities. With an annual production of around 17,000 million nuts, coconut contribution to nation's GDP is about 15,000 crores rupees.

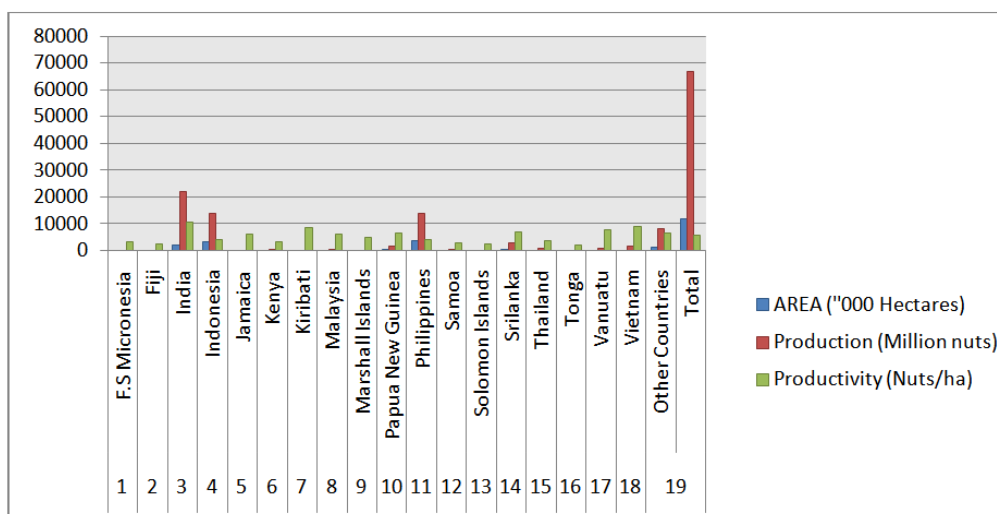
#### Coconut Production in Global Level:

Coconut palms are grown in more than 90 countries and territories of the world, with a total production of over 59 million tonnes in 2016 (table). Most of the world production is in tropical Asia, with Indonesia, the Philippines, and India collectively accounting for over 72% of the world total.

**Table 1: Area, Production and Productivity of Coconut in World Level (2015)**

SI No.	Countries	AREA (''000 Hectares)	Production (Million Nuts)	Productivity (Nuts/ha)
1	F.S Micronesia	18	60	3,333
2	Fiji	64	159	2,484
3	India	2,088.00	22,167.00	10,616
4	Indonesia	3,441.00	13,934.00	4,049
5	Jamaica	16	100	6,250
6	Kenya	77	254	3,299
7	Kiribati	23	198	8,609
8	Malaysia	85	505	5,941
9	Marshall Islands	8	38	4,750
10	Papua New Guinea	221	1,483.00	6,710
11	Philippines	3,565.00	13,825.00	3,878
12	Samoa	99	267	2,697
13	Solomon Islands	38	100	2,632
14	Srilanka	440	3,011.00	6,843
15	Thailand	184	686	3,728
16	Tonga	26	56	2,154
17	Vanuatu	92	699	7,598
18	Vietnam	165	1,471.00	8,915
19	Other Countries	1,256.00	8,115.00	6,461
	<b>Total</b>	<b>11,906.00</b>	<b>67,128.00</b>	<b>5,638</b>

**Source:** Asian and Pacific Coconut Community (APCC) Statistical Year Book 2015

**Graph 1: Area, Production, and Productivity of Coconut in World Level (2015)**

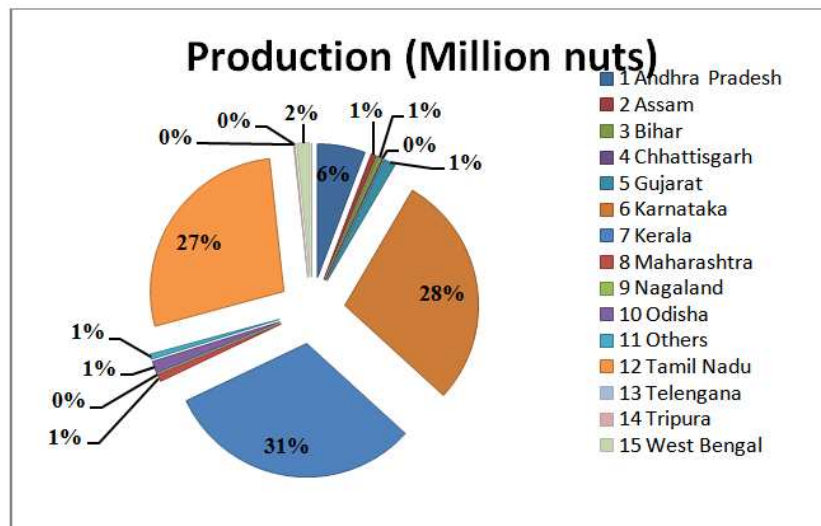
**Source:** Asian and Pacific Coconut Community (APCC) Statistical Year Book 2015

### Coconut Production in India

Coconut is one of the major plantation crops in India with a total cultivated area of 1975.81 thousand hectares with a production of 21,665 million nuts which makes India stand 3rd in the world. India occupies the premier position in the world with an annual production of 13 billion nuts, overtaking Indonesia and the Philippines, the other two prominent coconut-growing countries

**Table 2: Area, Production, and Productivity of Coconut in India (2016-17)**

Sl No.	States /Union Territories	AREA ('000 Hectares)	Production (Million Nuts)	Productivity (Nuts/Ha)
1	Andhra Pradesh	115.21	1,377.53	11,957
2	Assam	20.6	153.27	7,440
3	Bihar	14.9	141.09	9,469
4	Chhattisgarh	1.48	8.77	5,926
5	Gujarat	24.44	336.65	13,775
6	Karnataka	513.85	6,773.05	13,181
7	Kerala	770.79	7,448.65	9,664
8	Maharashtra	20.9	198.85	9,514
9	Nagaland	0.47	2.67	5,681
10	Odisha	50.91	341.68	6,711
11	Others	52.76	142.38	2,699
12	Tamil Nadu	461.06	6,570.63	14,251
13	Telengana	0.5	2.09	4,180
14	Tripura	4.61	32.23	6,991
15	West Bengal	29.63	374.56	12,641
	<b>Total</b>	<b>2,082.11</b>	<b>23,904.10</b>	<b>11,481</b>

**Graph 2: Area, Production, and Productivity of Coconut in India (2016-17)**

**Source:** Horticulture Division, Dept. of Agriculture & Cooperation, Ministry of Agriculture & Farmers Welfare, Government of India.

### Coconut Production in TN

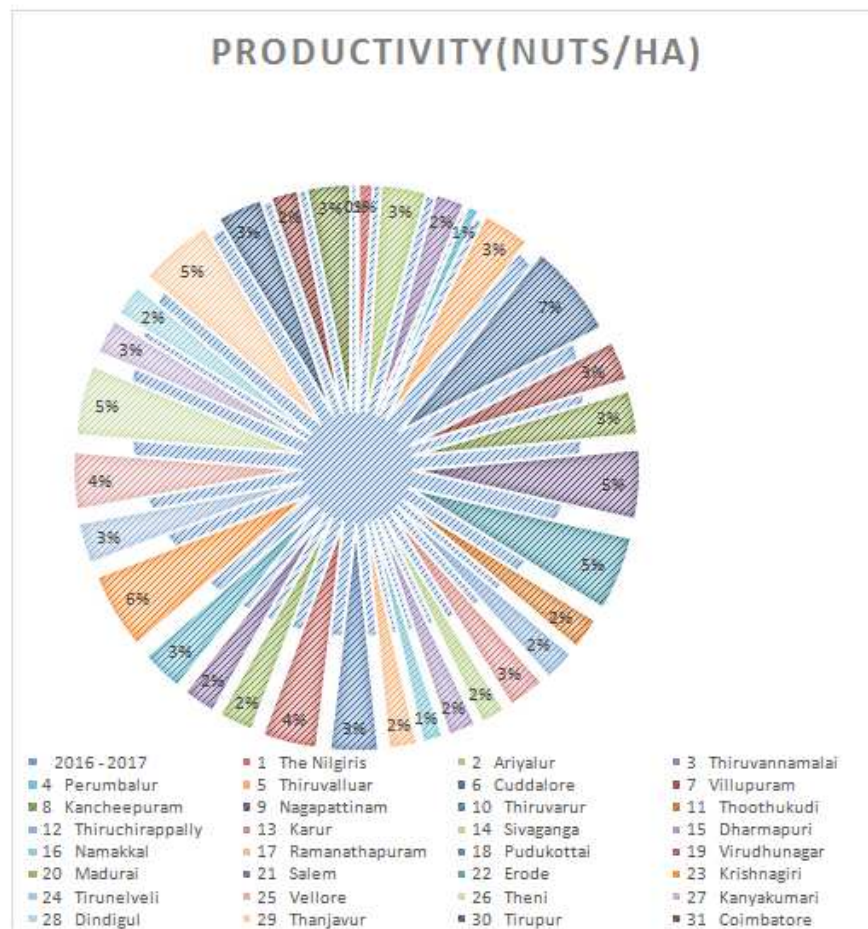
Coconut being a coastal crop is mainly cultivated in Tamil Nadu, Kerala, Odisha, West Bengal, Karnataka, Maharashtra, and Pondicherry. Of late, coconut cultivation has been introduced to suitable locations in non-traditional states including Assam, Gujarat, Madhya Pradesh, Rajasthan, Bihar, Tripura, Manipur, and Arunachal Pradesh and in the hinterland regions of the coconut growing states. In productivity too, India ranks number one among other coconut growing countries in the world.

**Table 3: Area, Production, and Productivity of Coconut in Tamil Nadu**

SL No	Districts/Islands	Area(Ha)	Production(Lakh Nuts)	Productivity(Nuts/Ha)
1	The Nilgiris	56.00	02.00	3571
2	Ariyalur	304.00	34.00	11184
3	Thiruvannamalai	431.00	31.00	7193
4	Perumbalur	693.00	19.00	2742
5	Thiruvalluar	724.00	86.00	11878
6	Cuddalore	1640.00	381.00	23232
7	Villupuram	1723.00	171.00	9925
8	Kancheepuram	2825.00	307.00	10867
9	Nagapattinam	3823.00	654.00	17107
10	Thiruvarur	4718.00	870.00	18440
11	Thoothukudi	6013.00	483.00	8033
12	Thiruchirappally	6070.00	465.00	7661
13	Karur	6640.00	612.00	9217
14	Sivaganga	7098.00	435.00	6128
15	Dharmapuri	7974.00	557.00	6985
16	Namakkal	8269.00	409.00	4946
17	Ramanathapuram	8292.00	573.00	6910
18	Pudukottai	9456.00	1121.00	11855
19	Virudhunagar	10156.00	1363.00	13421
20	Madurai	10876.00	928.00	8533
21	Salem	13635.00	1100.00	8067
22	Erode	14301.00	1498.00	10475
23	Krishnagiri	15612.00	2952.00	18909
24	Tirunelveli	16248.00	1652.00	10167
25	Vellore	20523.00	2904.00	14150
26	Theni	20931.00	3666.00	17515
27	Kanyakumari	23988.00	2100.00	8754
28	Dindigul	30538.00	2416.00	7911
29	Thanjavur	36136.00	6639.00	18372
30	Tirupur	60148.00	6757.00	11234
31	Coimbatore	85832.00	5879.00	6849
	Tamil Nadu	435673.00	47064.00	10803

**Source:** Horticulture Division, Dept. of Agriculture & Cooperation, Ministry of Agriculture & Farmers Welfare, Govt. of India

Of the total production of coconuts, about 5 % is consumed in the tender form for drinking purposes. The commercially available coconut is made use for making Copra, Desiccated coconut powder, tender coconut, and Coconuts for consumption purpose. The rest is utilized as mature nuts for household and religious purposes and for the production of edible copra, milling copra, and desiccated coconut. Coconut oil production in the country is nearly 4.5 lakh tonnes. Of this 40 % is consumed for edible purposes, 46 % for toiletry use and 14 % for industrial uses.

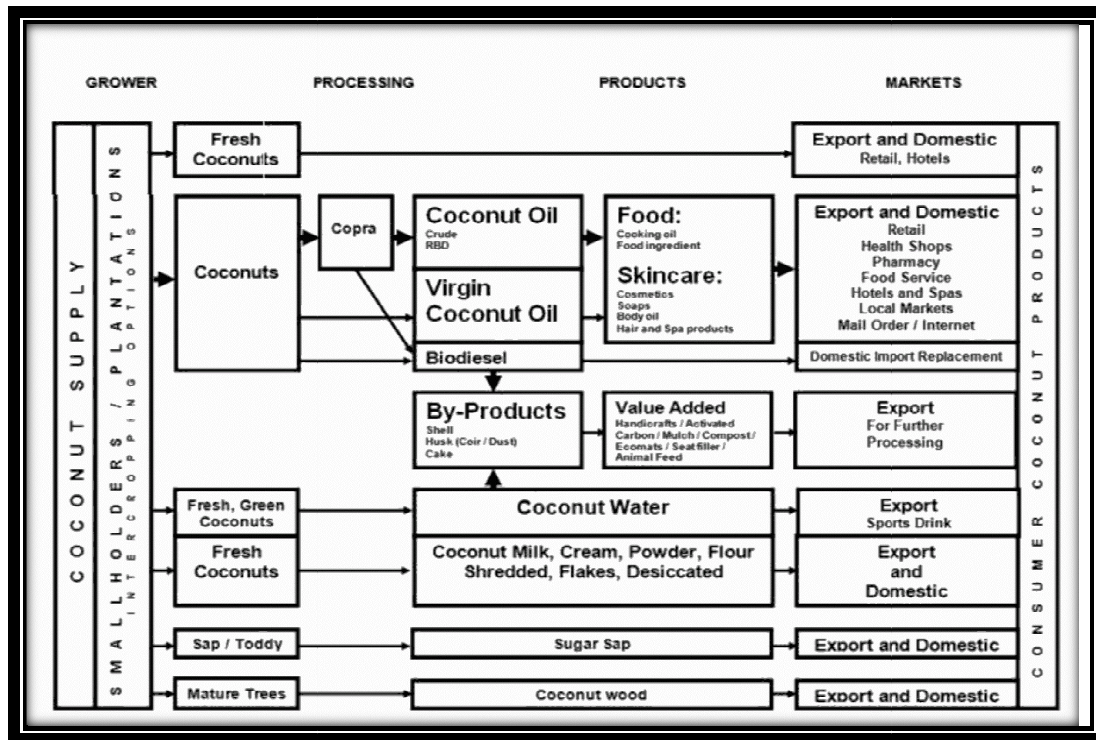


**Graph 3: Productivity of Coconut in Tamil Nadu**

**Source:** Coconut Development Board

The coconut palm is a malleable tree crop; no other tree crop grown can match coconut palm in its versatility. It provides nutritious food and a refreshing drink, oil for edible and non-edible uses, the fiber of commercial value, shell for fuel and industrial uses, thatch, an alcoholic beverage, timber and a variety of miscellaneous products for use as domestic fuel. According to the Encyclopedia Britannica, the coconut and African oil palms have important roles in international trade as sources of vegetable oil and fat. Coconut oil has high world demand as an ingredient in cosmetics, soaps, hair oils, body oils and in food products and has surged in popularity because of its health benefits. The coconut palm is one of the most attractive and useful trees in the world, grown in more than 80 countries of the tropical. It delivers food, drink and shelter and also supplies raw material to the number of industries intimately connected with domestic as well as economic life. All the parts-of the Wonder palm are useful to make in one way or other. On account of this, the palm has been regarded as Kalpavriksha (Tree of heaven).

The central government's new foreign trade policy for 2015-20 is to promote the export of coconut products, exports value (FOB) of up to 5% as incentives are given. The export of coconut products is likely to rise in the future because the price is being extremely competitive.



Pic 1: Uses of Coconut

Source: <https://sites.google.com/site/arsimbs0713/coconut-supply-chain-management>

## REFERENCES

1. Gunasekaran, A., Patel, C. & McGaughey, R.E. 2004. A framework for supply chain performance measurement. *International Journal of Production Economics*, 87(3), pp. 333-347.
2. "Cut-Flowers Supply Chain and Logistics. The Case of Greece" George Malindretos, Socrates Moschuris, Dimitrios Folinas.
3. *Coconut Value Chain Review, Whole nut processing concept Ministry of primary industry and Agriculture Dpt Fiji, 2010*
4. "Supply Chain Management and Sustainability in Agri-Food System: Italian Evidence" Francesco Zecca and Natalia Rastorgueva.
5. *Asian and Pacific Coconut Community (APCC) Statistical Year Book 2015*
6. *Horticulture Division, Dept. of Agriculture & Cooperation, Ministry of Agriculture & Farmers Welfare, Government of India.*
7. <https://sites.google.com/site/arsimbs0713/coconut-supply-chain-management>
8. "The supply chain of coconut products in the Philippines in support of global sustainability of the coconut industry",
9. [http://www.lankacoconutgrowers.com/pdf/The\\_Supply\\_Chain\\_of\\_Coconuts.pdf](http://www.lankacoconutgrowers.com/pdf/The_Supply_Chain_of_Coconuts.pdf)