

Spices Statistics

at a Glance 2021

Chief Editor
Dr S.K.Malhotra



सत्यमेव जयते

Directorate of Arecanut and Spices Development
Ministry of Agriculture & Farmers Welfare, Government of India
Calicut - 673005, Kerala, India

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Website: dasd.gov.in

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ISBN-978-93-5526-979-9

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Citation

Malhotra SK, Homey Cheriyan, Babulal Meena, Manojkumar K and Sruthi Sreekumar (Eds.). 2021. Spices Statistics at a Glance 2021, Directorate of Arecanut and Spices Development, Calicut, Kerala

Published by

Directorate of Arecanut and Spices Development, Department of Agriculture and Farmers Welfare, Ministry of Agriculture and Farmers Welfare, Government of India, Kozhikode 673005, Kerala

Printed at Niseema Printers, Cochin

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कृषि एवं किसान कल्याण मंत्री
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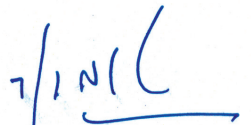
संदेश

मुझे यह जानकर बहुत खुशी हो रही है कि कृषि एवं किसान कल्याण मंत्रालय, भारत सरकार के बागवानी प्रभाग के अंतर्गत सुपारी और मसाला विकास निदेशालय ने “मसाला सांख्यिकी: एक झलक 2021” का प्रकाशन किया है, जो सभी आधिकारिक आंकड़ों का एक महत्वपूर्ण संग्रह है। इसके माध्यम से देश में उत्पादित विभिन्न मसालों के उत्पादन क्षेत्र, उत्पादन की मात्रा, निर्यात, आयात और कीमत इत्यादि की जानकारी समग्रता से मिल सकेंगी।

बागवानी के माध्यम से प्राप्त कुल विदेशी मुद्रा आय का लगभग 41% योगदान देकर, मसाला क्षेत्र भारतीय बागवानी क्षेत्र में विकास के प्रमुख स्तंभों के रूप में उभरा है। कृषि एवं किसान कल्याण मंत्रालय के एक प्रमुख कार्यक्रम-समेकित बागवानी विकास मिशन (एमआईडीएच) ने मसालों के उत्पादन में वार्षिक 7% की शानदार वृद्धि हासिल करने में काफी मदद की है। अच्छी गुणवत्ता वाले मसालों की इस बढ़ी हुई उपलब्धता से मसालों के निर्यात में अभूतपूर्व वृद्धि हुई है, जिससे वर्ष 2020-21 में 3.6 बिलियन अमेरिकी डॉलर की विदेशी मुद्रा की कमाई हुई है। भारत, विश्व में मसालों का सबसे बड़ा उपभोक्ता होने के नाते, मसालों का एक मजबूत घरेलू बाजार है, जिसे विभिन्न कार्यक्रमों के माध्यम से केंद्र सरकार द्वारा सहायता की जा रही है।

भारतीय मसाला क्षेत्र को और प्रोत्साहन देने के लिए, उत्पादन कार्यक्रमों का रिओरिएंटेशन किया जाना है ताकि आंतरिक गुणों वाले मसालों का निर्यात योग्य सरप्लस उपलब्ध कराया जा सके। इस तरह की रणनीतिक योजना और विशाल अवसरों का लाभ उठाने के लिए संपूर्ण और विश्वसनीय डाटा की आवश्यकता होती है। इसे ध्यान में रखते हुए ही मसालों के संबंध में उल्लेखित प्रकाशन किया गया है। मुझे पूरी उम्मीद है कि यह प्रकाशन मसाला क्षेत्र में नीति निर्माताओं, वैज्ञानिकों, शोधकर्ताओं, किसानों और अन्य हितधारकों के लिए डाटा का एक प्रमाणिक स्रोत साबित होगा।

शुभकामनाओं सहित,


(नरेन्द्र सिंह तोमर)

Sanjay Agarwal
Secretary



सत्यमेव जयते



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अमृत महोत्सव

भारत सरकार
कृषि एवं किसान कल्याण मंत्रालय
कृषि एवं किसान कल्याण विभाग

Government of India
Ministry of Agriculture & Farmers Welfare
Department of Agriculture & Farmers Welfare



MESSAGE

Statistics play an indispensable role in the macro as well as micro planning process of the country. For a country like India where Agriculture had been the major contributor to the national economy, timely availability of crop statistics, which are exhaustive and reliable have been realized as the foremost requirement for evolving the development strategies. Considering the significant position of spices in India's Agrarian Economy in general and horticulture in particular, collection, maintenance and dissemination of spices statistics assume great importance. Spices sector in the country shows spectacular growth in the recent past, especially in pandemic times, owing to its diversified uses as immunity boosters, nutraceuticals and sources of many high value phytochemicals.

In view of the above, I am delighted to know that, the Directorate of Arecanut and Spices Development (DASD) under the able guidance of Agriculture / Horticulture Commissioner, Dept of Agriculture & Farmers Welfare has been periodically publishing the statistics on area, production and productivity of Spices. The present book, "Spices Statistics at a Glance 2021", contains a comprehensive information on the available statistics like area, production, export, import, price and value of output of various spices produced in the Country.

I compliment Dr S.K. Malhotra, Agriculture/Horticulture Commissioner and Dr Homey Cheriyan, Director, DASD along with their team for their efforts for bringing this publication. I hope that this publication will be of immense use for Government policy makers, scientists, researchers, farmers and other stakeholders in the Spices Sector.

(Sanjay Agarwal)

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Dated: 19.10.21

PREFACE

Spice crops, being low volume high value crops, occupy a predominant position among horticultural crops as the largest export earner and contribute about 9.6% of the total agricultural export earnings in the country. Considering the growing demand of spices in domestic as well as overseas markets, the need for reliable and timely statistics is a fundamental requirement for planning development programmes as well as strategies for export. The Directorate of Arecanut and Spices Development (DASD), Calicut, as a nodal agency for collection and compilation of area and production estimates of spices at National level, making consistent efforts by conducting consultative meetings, workshops and sample surveys to improve the quality of spices statistics generated in the country.

This publication, Spices Statistics at a Glance 2021 is a compendium of all the statistics like area, production, productivity, export, import, price and value of output of various spices produced in the country. The data included in this publication are collected and compiled by DASD from authentic sources like State Dept of Economics and Statistics, Dept of Horticulture/Agriculture/Land Records, Spices Board India, CSO, APMCs, International Pepper Community, FAO etc.

I applaud the efforts of Dr Homey Cheriyan, Director, DASD and his team to accomplish this task of compiling this database. I hope this book would be of immense use to the growers, exporters, researchers and other stakeholders in the Spices Industry.

(Dr. S.K. Malhotra)

CONTENTS

Spices – An Overview	i
Key Statistics in Spices Sector	vi
1. Spices – General	
1.1 Trend in area, production and productivity of Spices for the last twenty years	1
1.2 Crop-wise area, production and productivity of Spices from 2013-14 to 2020-21	2
1.3 State-wise area and production of Spices from 2013-14 to 2020-21	4
1.4 Item-wise export of spices from India 2015-16 to 2020-21	6
1.5 Major country-wise export of spices from India 2014-15 to 2019-20	7
1.6 Item-wise import of spices in India 2015-16 to 2019-20	8
1.7 Trend in export and import of spices for the last twenty years	9
1.8 Value of output of Spices at current prices 2011-12 to 2017-18	10
1.9 Value of output of Spices at 2011-12 prices 2011-12 to 2017-18	11
2 Black Pepper	
2.1 Trend in area, production and productivity of black pepper for the last twenty years	12
2.2 State-wise area, production and productivity of black pepper in India 2013-14 to 2020-21	13
2.3 District-wise area, production and productivity of black pepper in Kerala 2015-16 to 2019-20	15
2.4 District-wise area, production and productivity of black pepper in Karnataka 2015-16 to 2019-20	16
2.5 District-wise area, production and productivity of black pepper in Tamil Nadu 2015-16 to 2019-20	17
2.6 Trend in export and import pepper in India for the last twenty years	18
2.7 Country-wise export of pepper from India	19
2.8 Monthly average price of pepper in major markets	20
2.9 Farm wholesale price of black pepper in Kerala	21
2.10 Value of output of black pepper, State wise	22
2.11 Country wise area, production and productivity of pepper in the world 2011 to 2015	23
2.12 World area, production and productivity of pepper for the last twenty years	24
2.13 Production of black pepper by Country	25
2.14 Production of white pepper by Country	25
2.15 Total export of pepper from producing countries 2014 to 2020	26
2.16 Export of black pepper from producing countries 2014 to 2020	26
2.17 Export of white pepper from producing countries 2014 to 2019	27
2.18 Export earnings from pepper by producing countries	27
2.19 Export of whole pepper from Producing Countries	28
2.20 Export of ground pepper from producing countries	28
2.21 Import of pepper by producing countries, Quantity & Value	29
2.22 Import of pepper by consuming countries 2015 to 2019	30
2.23 Estimate of consumption of pepper in producing countries	31
2.24 Spot price of black pepper in New York market 2014 to 2019	31
2.25 Spot price of white pepper in New York market 2014 to 2019	32
3 Ginger	
3.1 Trend in area, production and productivity of ginger for the last twenty years	33

3.2	State-wise area, production and productivity of ginger in India 2013-14 to 2020-21	34
3.3	District-wise area, production and productivity of ginger in Kerala 2015-16 to 2019-20	36
3.4	District-wise area, production and productivity of ginger in Karnataka 2015-16 to 2019-20	37
3.5	District-wise area, production and productivity of ginger in Meghalaya 2015-16 to 2019-20	38
3.6	District-wise area, production and productivity of ginger in Assam 2015-16 to 2019-20	39
3.7	District-wise area, production and productivity of ginger in Madhya Pradesh 2016-17 to 2019-20	40
3.8	Trend in export and import ginger in India for the last twenty years	42
3.9	Country-wise export of ginger from India 2015-16 to 2019-20	43
3.10	Monthly average price of ginger in major market centres 2015-16 to 2020-21	44
3.11	Districtwise farm wholesale price of ginger in Kerala 2013-14 to 2018-19	45
3.12	Value of output of Dry Ginger, Statewise at 2011-12 prices	46
3.13	Value of output of Dry Ginger, Statewise at current prices	47
3.14	Major Ginger producing countries in the World	48

4 Chilli

4.1	Trend in area, production and productivity of Chilli for the last twenty years	49
4.2	State-wise area, production and productivity of Chilli in India 2013-14 to 2020-21	50
4.3	District-wise area, production and productivity of Red Chilli in Andhra Pradesh 2015-16 to 2019-20	52
4.4	District-wise area, production and productivity of Red Chilli in Karnataka 2015-16 to 2019-20	53
4.5	District-wise area, production and productivity of Red Chilli in Madhya Pradesh 2015-16 to 2019-20	54
4.6	District-wise area, production and productivity of Chilli in Tamil Nadu 2015-16 to 2019-20	56
4.7	District-wise area, production and productivity of Chilli in Telangana 2015-16 to 2019-20	57
4.8	Trend in export and import of Chilli in India for the last twenty years	58
4.9	Country-wise export of Chilli from India 2015-16 to 2019-20	59
4.10	Monthly average price of Chilli in major market centres 2015-16 to 2020-21	60
4.11	Value of output of Dry Chillies, Statewise at 2011-12 prices	61
4.12	Value of output of Dry Chillies, Statewise at current prices	62
4.13	Major Chilli producing countries in the world	63

5 Turmeric

5.1	Trend in area, production and productivity of Turmeric for the last twenty years	65
5.2	State-wise area, production and productivity of Turmeric in India 2013-14 to 2020-21	66
5.3	District-wise area, production and productivity of Turmeric in Telangana 2015-16 to 2019-20	68
5.4	District-wise area, production and productivity of Turmeric in Tamil Nadu 2015-16 to 2019-20	69
5.5	District-wise area, production and productivity of Turmeric in Karnataka 2015-16 to 2019-20	70
5.6	District-wise area, production and productivity of Turmeric in Kerala 2015-16 to 2019-20	71
5.7	District-wise area, production and productivity of Turmeric in Andhra Pradesh 2015-16 to 2019-20	72
5.8	Trend in export and import of Turmeric in India for the last twenty years	73
5.9	Country-wise export of Turmeric from India 2015-16 to 2019-20	74
5.10	Monthly average wholesale price of turmeric (finger) in Nizamabad Market 2015-16 to 2019-20	75
5.11	Monthly average price of Turmeric in Chennai market 2015-16 to 2020-21	75
5.12	District wise farm harvest price of turmeric in Kerala 2013-14 to 2018-19	76
5.13	Value of output of Turmeric (processed), Statewise at 2011-12 prices	77
5.14	Value of output of Turmeric (processed), Statewise at current prices	78

6 Cardamom (Small & Large)

6.1	Trend in area, production and productivity of Cardamom (Small & Large) for the last twenty years	79
6.2	State-wise area, production and productivity of Cardamom (Small & Large) in India 2013-14 to 2020-21	80
6.3	District-wise area, production and productivity of Cardamom (Small) in Kerala 2015-16 to 2020-21	81
6.4	Trend in export of Cardamom (Small & Large) in India for the last twenty years	82
6.5	Trend in import of Cardamoms (Small & Large) in India for the last 20 years	83
6.6	Country-wise export of Cardamoms (Small & Large) from India	84
6.7	All India average auction price of Small Cardamom 2015-16 to 2020-21	85
6.8	Monthly average price of large cardamom in Gangtok Market	85
6.9	Value of output of Cardamoms, Statewise at 2011-12 prices	86
6.10	Value of output of Cardamoms, State wise at current prices	86

7 Garlic

7.1	Trend in area, production and productivity of Garlic for the last twenty years	87
7.2	State-wise area, production and productivity of Garlic India 2013-14 to 2020-21	88
7.3	District-wise area, production and productivity of Garlic in Rajasthan 2015-16 to 2019-20	90
7.4	District-wise area, production and productivity of Garlic in Uttar Pradesh 2015-16 to 2019-20	91
7.5	District-wise area, production and productivity of Garlic in Gujarat from 2015-16 to 2019-20	93
7.6	District-wise area, production and productivity of Garlic in Madhya Pradesh 2015-16 to 2019-20	94
7.7	Trend in export and import Garlic in India for the last twenty years	96
7.8	Country-wise export of Garlic from India 2015-16 to 2019-20	97
7.9	Monthly average price of Garlic in Chennai 2015-16 to 2020-21	98
7.10	Value of output of Garlic, Statewise at 2011-12 prices	99
7.11	Value of output of Garlic, Statewise at current prices	100

8 Seed Spices

8.1	Trend in area, production and productivity of Coriander and cumin for the last twenty years	101
8.2	Trend in area, production and productivity of Fennel and Fenugreek for the last twenty years	102
8.3	Trend in area, production and productivity of Ajowan for the last twenty years	103
8.4	State-wise area, production and productivity of Coriander India 2013-14 to 2020-21	104
8.5	State-wise area, production and productivity of Cumin India 2013-14 to 2020-21	106
8.6	State-wise area, production and productivity of Fennel India 2013-14 to 2020-21	107
8.7	State-wise area, production and productivity of Fenugreek India 2013-14 to 2020-21	108
8.8	State-wise area, production and productivity of Ajwain India 2013-14 to 2020-21	109
8.9	State-wise area, production and productivity of Other seed spices in India 2013-14 to 2020-21	110
8.10	District-wise area, production and productivity of Coriander in Rajasthan 2015-16 to 2019-20	111
8.11	District-wise area, production and productivity of Coriander in Gujarat 2015-16 to 2019-20	112
8.12	District-wise area, production and productivity of Coriander in Madhya Pradesh 2015-16 to 2019-20	113
8.13	District-wise area, production and productivity of Coriander in Assam 2015-16 to 2019-20	115
8.14	District-wise area, production and productivity of Cumin in Gujarat 2015-16 to 2019-20	116
8.15	District-wise area, production and productivity of Cumin in Rajasthan 2015-16 to 2019-20	117
8.16	District-wise area, production and productivity of Fennel in Gujarat 2015-16 to 2019-20	118
8.17	District-wise area, production and productivity of Fenugreek in Gujarat 2015-16 to 2019-20	119
8.18	District-wise area, production and productivity of Fenugreek in Rajasthan 2015-16 to 2019-20	120
8.19	District-wise area, production and productivity of Ajwain in Rajasthan 2015-16 to 2019-20	121

8.20	Trend in export of various seed spices for the last twenty years	122
8.21	Country-wise export of Seed Spices from India 2015-16 to 2019-20	123
8.22	Trend in import of various seed spices in India	128
8.23	Monthly average price of Seed spices in Chennai 2015-16 to 2020-21	129
8.24	Value of output of Coriander, Statewise at 2011-12 prices	131
8.25	Value of output of Coriander, Statewise at current prices	132
8.26	Value of output of Fennel, Statewise	133
8.27	Value of output of Cumin, Statewise	133
8.28	Value of output of Ajwan, Statewise	134
8.29	Value of output of Fenugreek, Statewise	134
8.30	Major seed spices (aniseed, badian seed, coriander, fennel) producing countries in the world	135

9 Tree Spices

9.1	Trend in area, production and productivity of tree spices for the last twenty years	136
9.2	State-wise area, production and productivity of Tamarind in India 2013-14 to 2020-21	137
9.3	State-wise area, production and productivity of Clove in India 2013-14 to 2020-21	138
9.4	State-wise area, production and productivity of Nutmeg in India 2013-14 to 2020-21	139
9.5	District-wise area, production and productivity of Nutmeg in Kerala 2015-16 to 2019-20	140
9.6	District-wise area, production and productivity of Clove in Kerala 2015-16 to 2019-20	141
9.7	District-wise area, production and productivity of Tamarind in Kerala 2015-16 to 2019-20	142
9.8	District-wise area, production and productivity of Tamarind in Tamil Nadu 2015-16 to 2019-20	143
9.9	Trend in export of Nutmeg and Mace for the last twenty years	145
9.10	Country-wise export of nutmeg and mace from India	146
9.11	Trend in import of various tree spices in India	147
9.12	Monthly average price of tree spices in major market centres 2015-16 to 2020-21	148
9.13	Farm harvest price of nutmeg and clove in Kerala	150
9.14	Value of output of Tamarind, Statewise	151
9.15	Value of output of Nutmeg and Clove, Statewise	152
9.16	Major Clove producing countries in the world	153
9.17	Major Cinnamon producing countries in the world	154
9.18	Major nutmeg, mace and cardamom producing Countries in the World	155

10 Others

10.1	Area, production and productivity of Saffron in Jammu & Kashmir	156
10.2	Area, production and productivity of Mint in Uttar Pradesh	156
10.3	Monthly average price of Saffron in Delhi market	157
10.4	Value of output of Saffron	157
10.5	Trend in export of Spices curry powder, mint products and spice oils & oleoresins from India for the last twenty years	158
10.6	Countrywise export of Curry powders and paste, 2015-16 to 2019-20	159
10.7	Countrywise export of spice oils and oleoresins, 2015-16 to 2019-20	160
10.8	Countrywise export of Mint products, 2015-16 to 2019-20	161
10.9	Trend in import of spice oils and oleoresins in India	162

Source Agencies of Data

SPICES-AN OVERVIEW

Spices are important group of horticultural crops, providing livelihood to millions of people in the country. India with its vast geographical area has varied agro-climatic regions which supports the growth of around 63 different spices. However, only around 21 of them have commercial importance. They are black pepper, chillies, ginger, turmeric, garlic, cardamom (both small and large), coriander, cumin, fennel, fenugreek, ajwain, celery, dill seed, nutmeg, clove, cinnamon, tamarind, saffron, vanilla, curry leaf, mint etc.

India is the largest producer of Spices with a production of 106.79 lakh tonnes from an estimated area of 45.28 lakh ha. Among spices, garlic ranks first in terms of production followed by Chillies, ginger, turmeric etc. In terms of area, cumin ranks first followed by chilli, coriander, garlic etc.

Table 1. Ranking of spices in terms of area and production

Rank	Spices	Area ('000 ha)	Rank	Spices	Production ('000 tonnes)
1	Cumin	1241.064	1	Garlic	3184.809
2	Chillies	728.627	2	Chillies	2092.153
3	Coriander	661.773	3	Ginger	1886.533
4	Garlic	390.639	4	Turmeric	1064.441
5	Mint (Mentha)	359.230	5	Cumin	856.199
6	Turmeric	291.279	6	Coriander	831.918
7	Pepper	260.229	7	Fenugreek	202.631
8	Ginger	176.348	8	Tamarind	158.502
9	Fenugreek	121.327	9	Fennel	127.160
10	Cardamom	83.635	10	Pepper	120.465
11	Fennel	78.976	11	Mint (Mentha)	47.069
12	Tamarind	43.617	12	Cardamom	33.811
13	Ajwan	28.997	13	Dill/Poppy/Celery	30.592
14	Dill/Poppy/Celery	31.170	14	Ajwan	21.841
15	Nutmeg	23.347	15	Nutmeg	14.923
16	Saffron	3.657	16	Cinnamon/Tejpat	4.911
17	Clove	2.151	17	Clove	1.192
18	Cinnamon/Tejpat	1.964	18	Vanilla	0.067
19	Vanilla	0.147	19	Saffron	0.004
	Total	4528.176		Total	10679.221

Share of each spices in total area and production of spices in the country are given in figures 1 and 2.

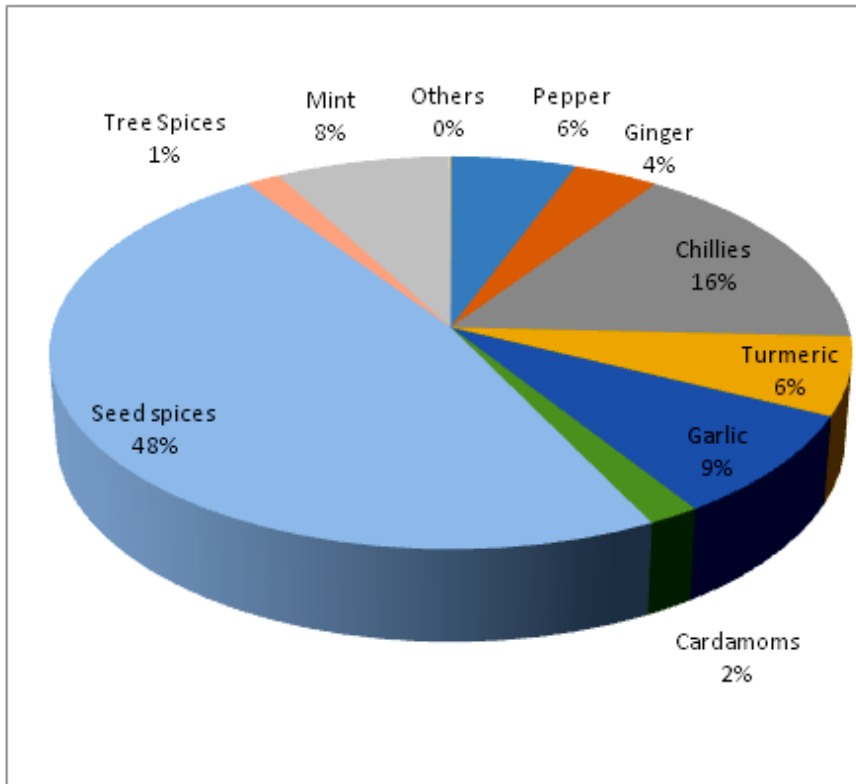


Figure 1 Item-wise share of area under Spices in India 2020-21

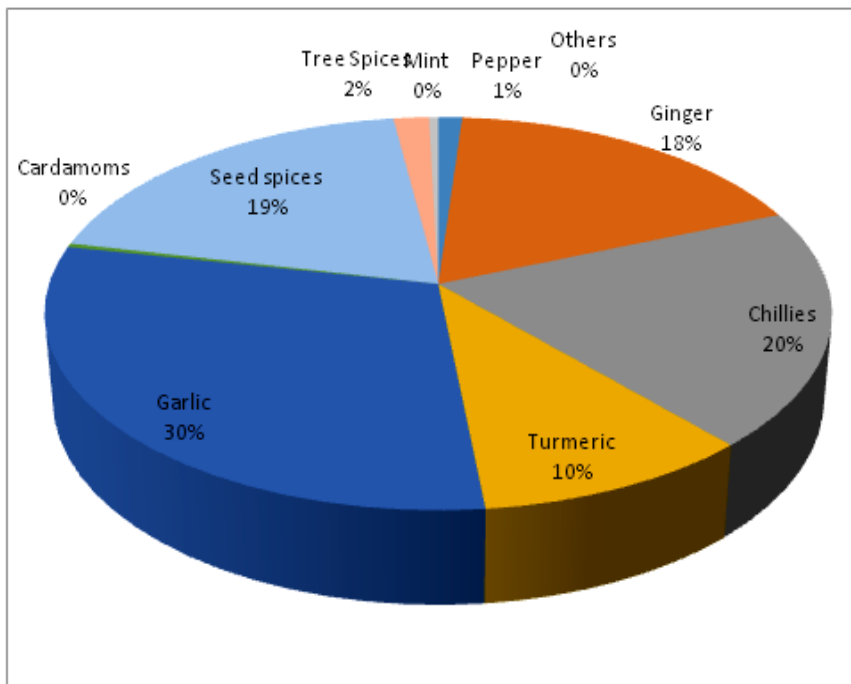


Figure 2 Item-wise share of production of Spices in India 2020-21

Among different states, Rajasthan occupies the major area under spices owing to seed spices cultivation followed by Gujarat, Madhya Pradesh, Uttar Pradesh, Karnataka, Andhra Pradesh, Kerala etc. Madhya Pradesh ranks first in terms of production owing to garlic production followed by Rajasthan, Gujarat, Andhra Pradesh, Telangana, Karnataka, Maharashtra, Assam etc.

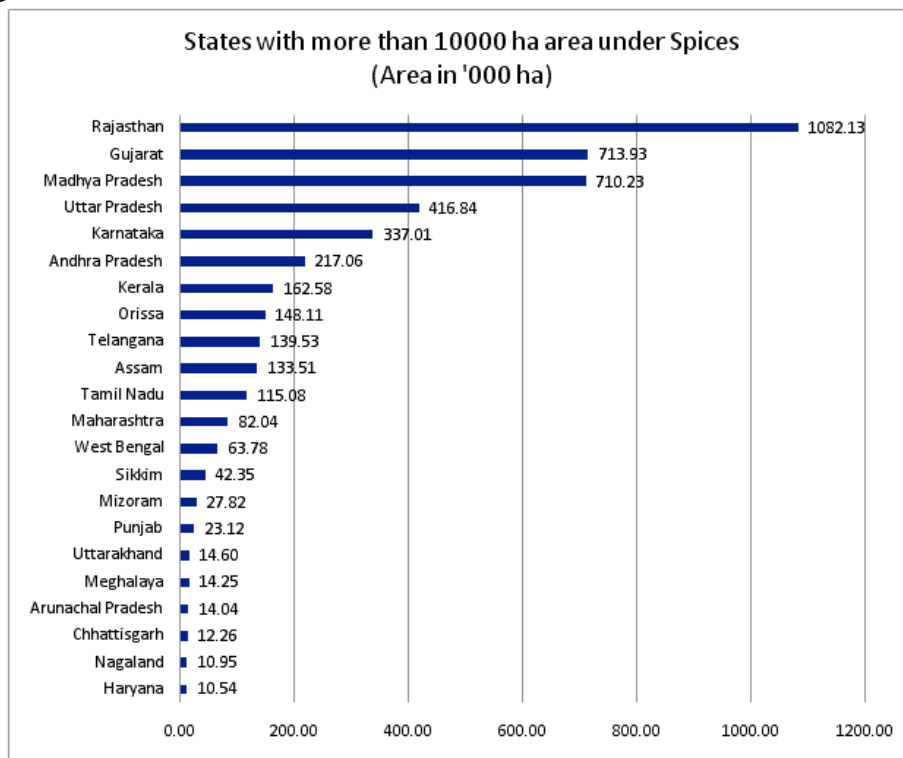


Figure 3 States having more than 10000 ha area under cultivation of Spices

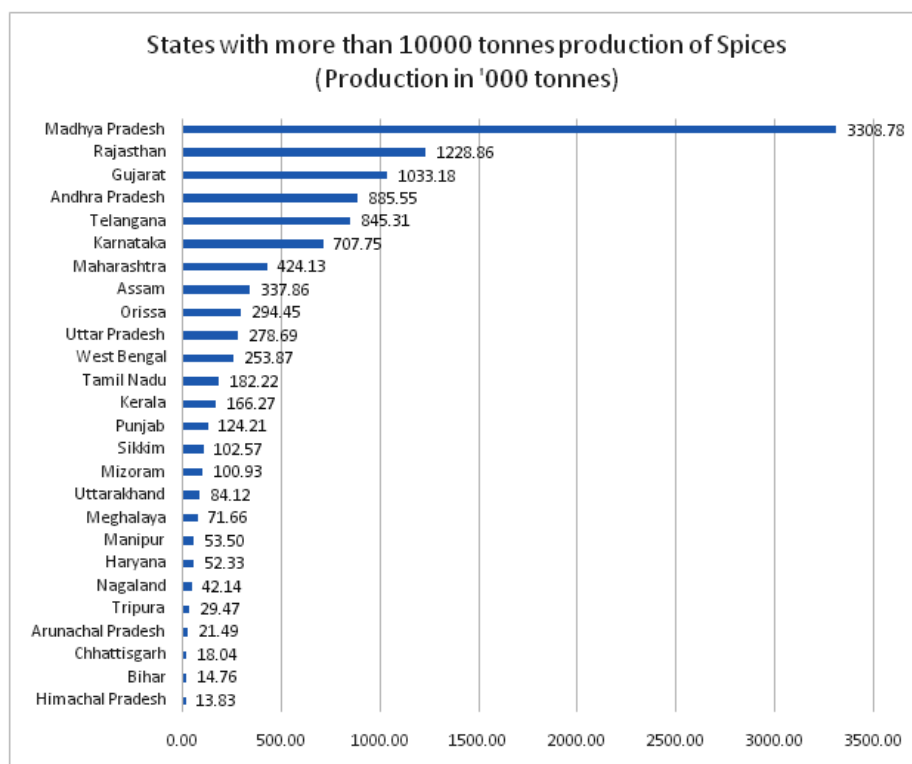


Figure 4 States with more than 10000 tonnes production of Spices

Government of India implements various development programmes to increase the production, productivity and quality of the spices produced in the Country. The development efforts have been intensified after the introduction of National Horticulture Mission (NHM) in 2005-06 followed by Mission for Integrated Development of Horticulture (MIDH) from 2014-15. As a result of the implementation of these programmes, area and production of spices in the country have shown a spectacular growth to the tune of 4.5% and 7.0% per annum, respectively during the period of NHM/MIDH (2005-06 to 2020-21). Productivity of spices has also increased substantially during the period from 1.6 tonnes/ha to 2.4 tonnes/ha with annual growth rate of 2.4%.

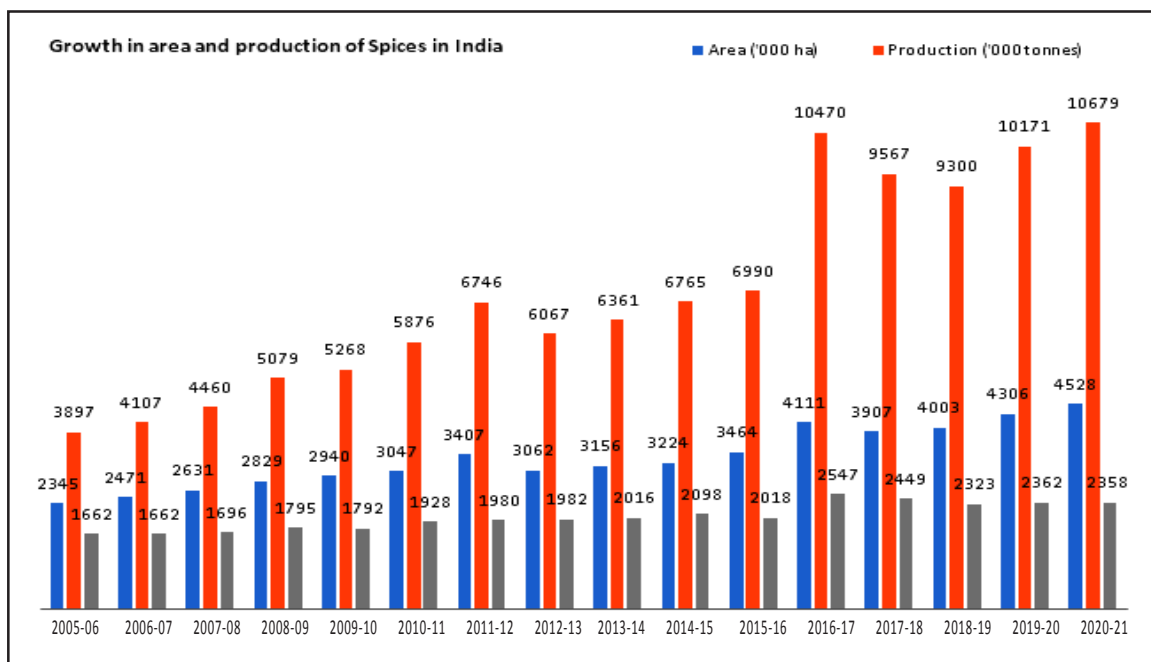


Figure 5 Trend in area and production of spices in India from 2005-06 to 2020-21

The increased availability of good quality spices has led to an annual growth of 9.1 % in terms of volume of spices exported, fetching a whopping foreign exchange exceeding 3.62 billion US \$ (Rs 27,193 crores) in 2020-21, making spices the third largest export earner among principal agricultural commodities.

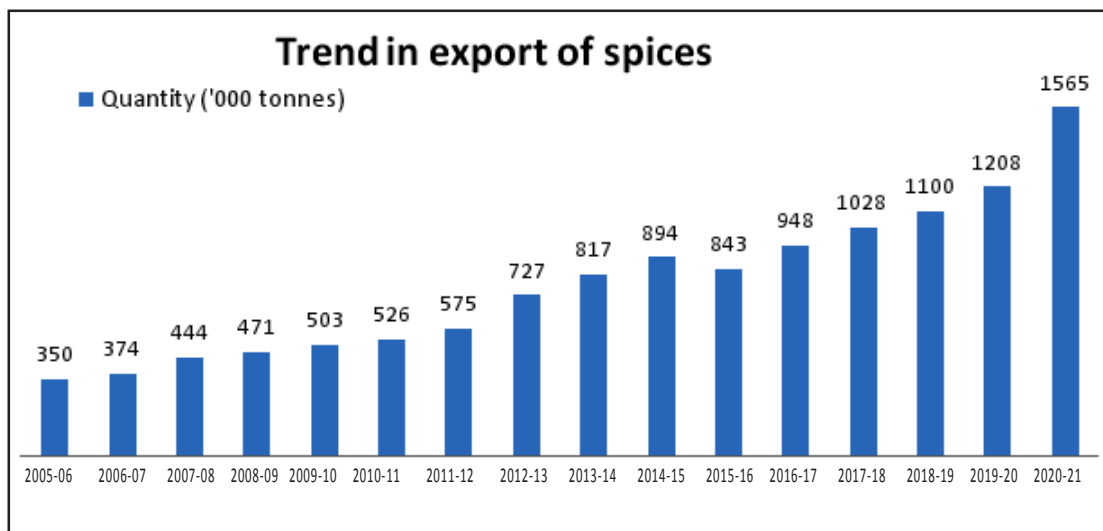


Figure 6 Trend in export of spices in India from 2005-06 to 2020-21



Figure 7 Trend in export earnings through Spices from 2005-06 to 2020-21

Chilli is the largest exported spices in terms of both volume and value in the country. Chilli accounts for 38% of the quantity of spices exported and 31% of the total foreign exchange earnings through spices. Itemwise share of export of different spices are given in figures 8 &9.

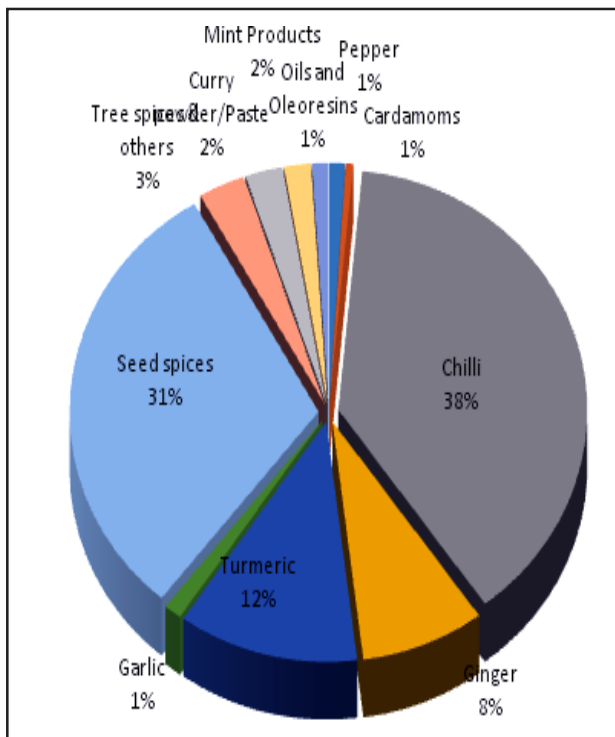


Figure 8 Itemwise share in the export basket of Spices

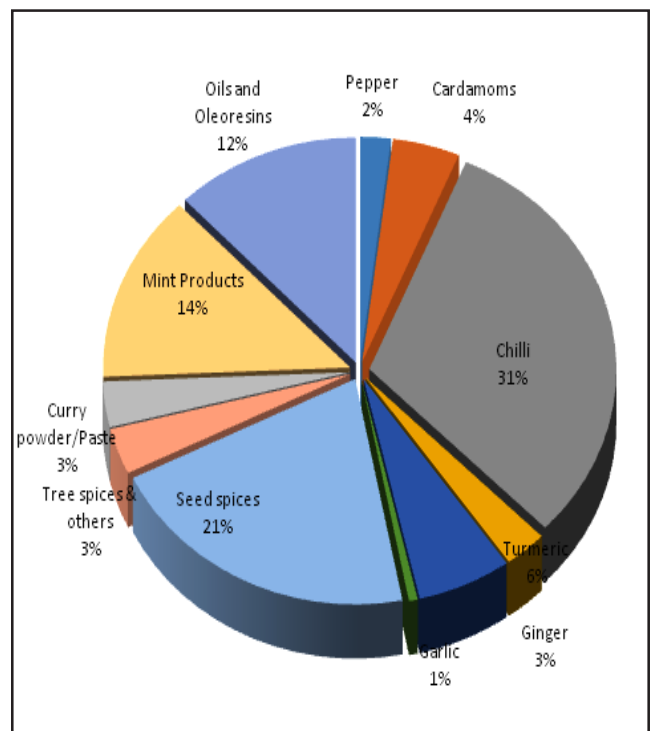
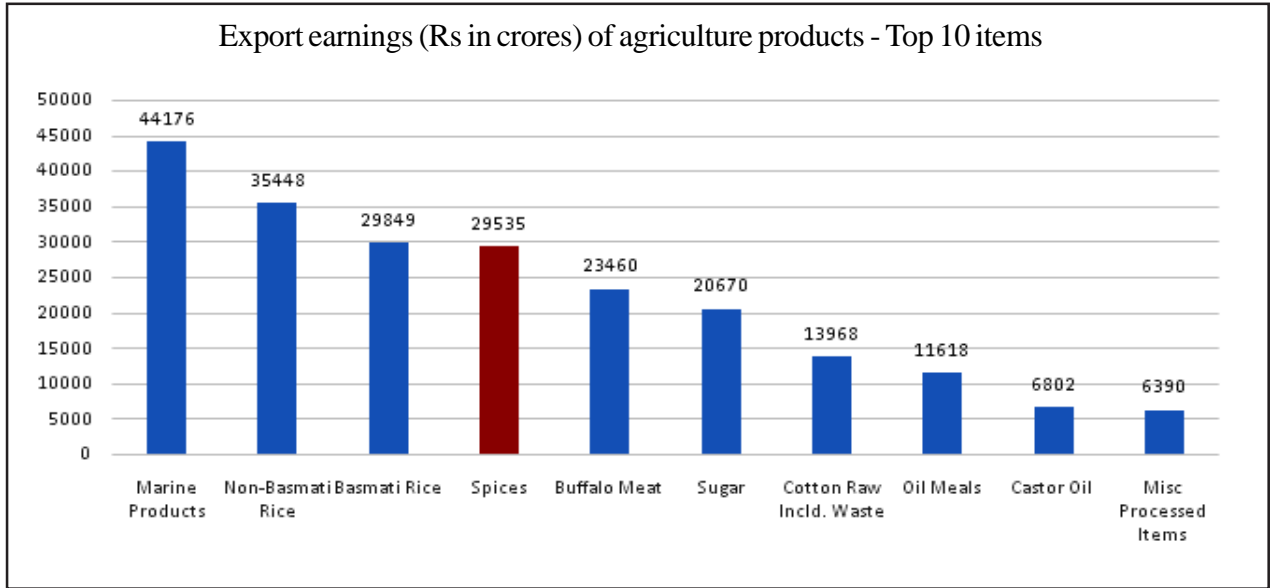


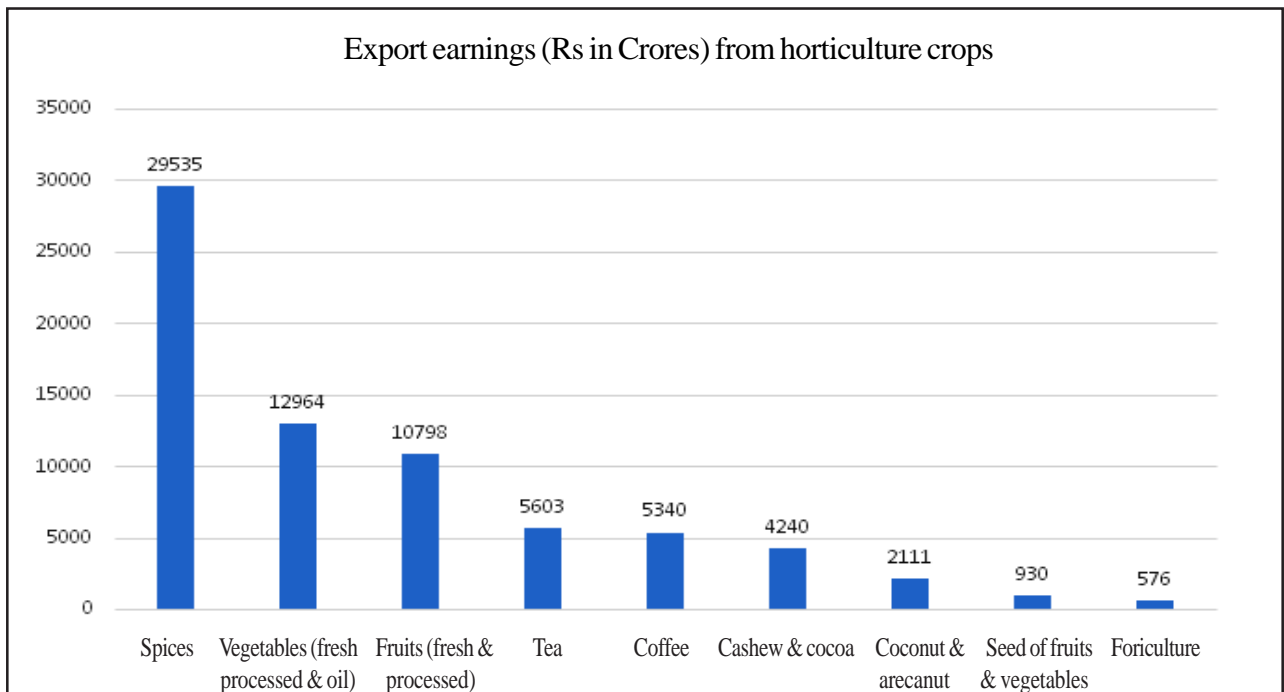
Figure 9 Itemwise share in the export earnings of Spices

KEY STATISTICS IN SPICES SECTOR

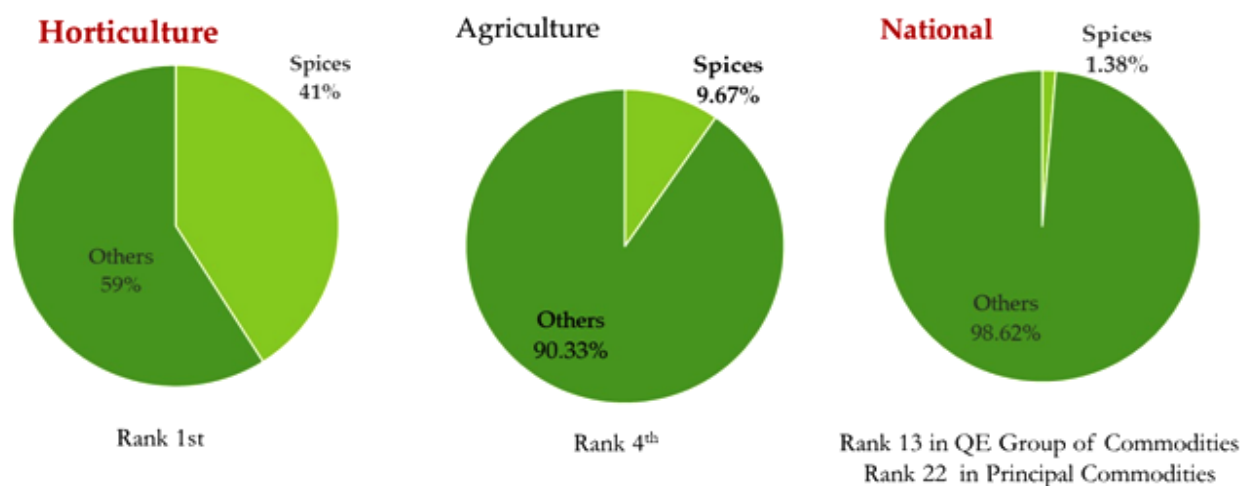
1. Spices is the fourth largest export earner among principal agriculture commodities



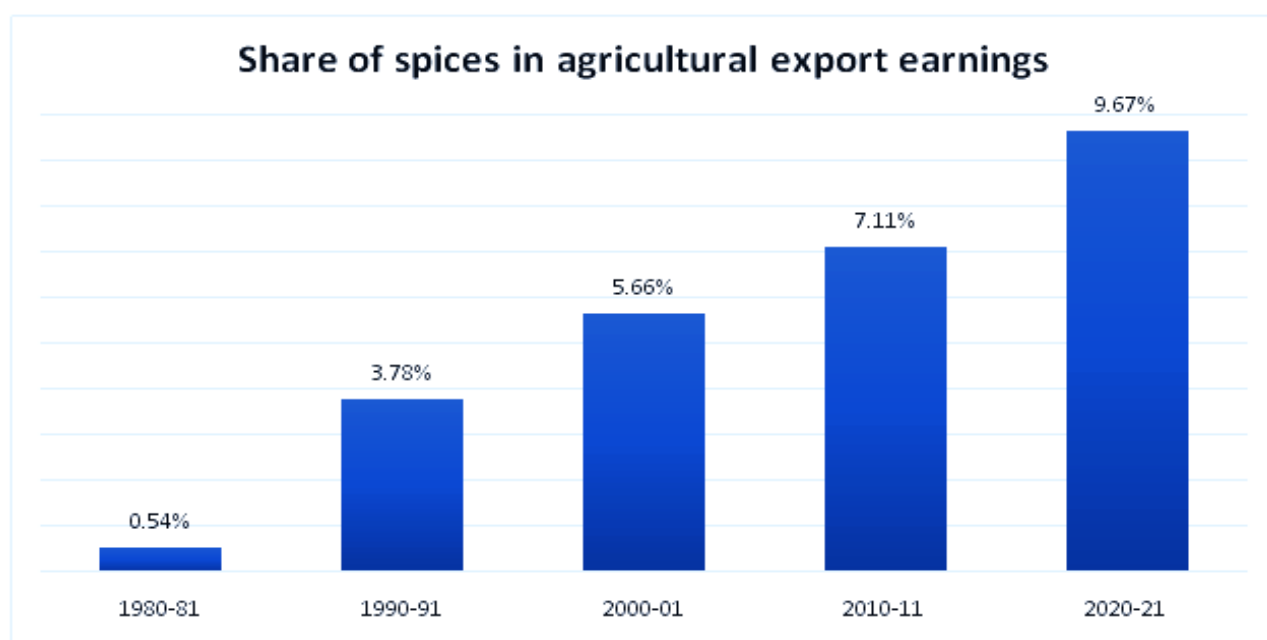
2. Spices is the largest export earner among horticulture crops



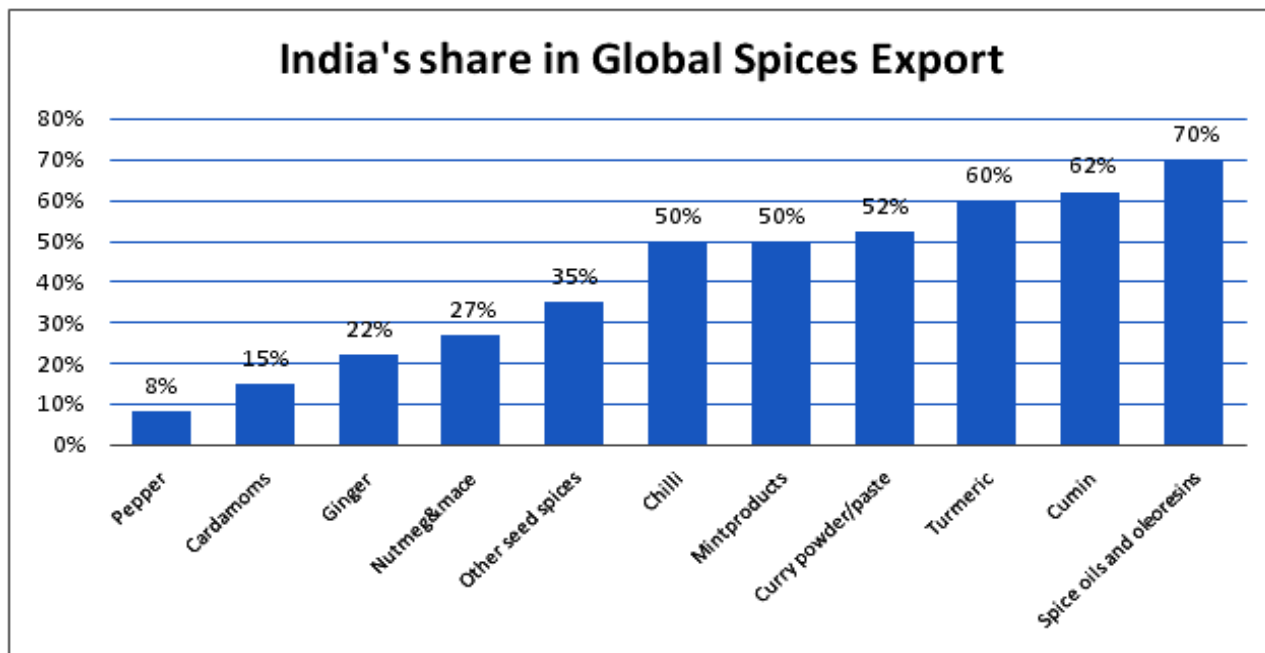
3. Share of spices in horticulture, agriculture and national export earnings



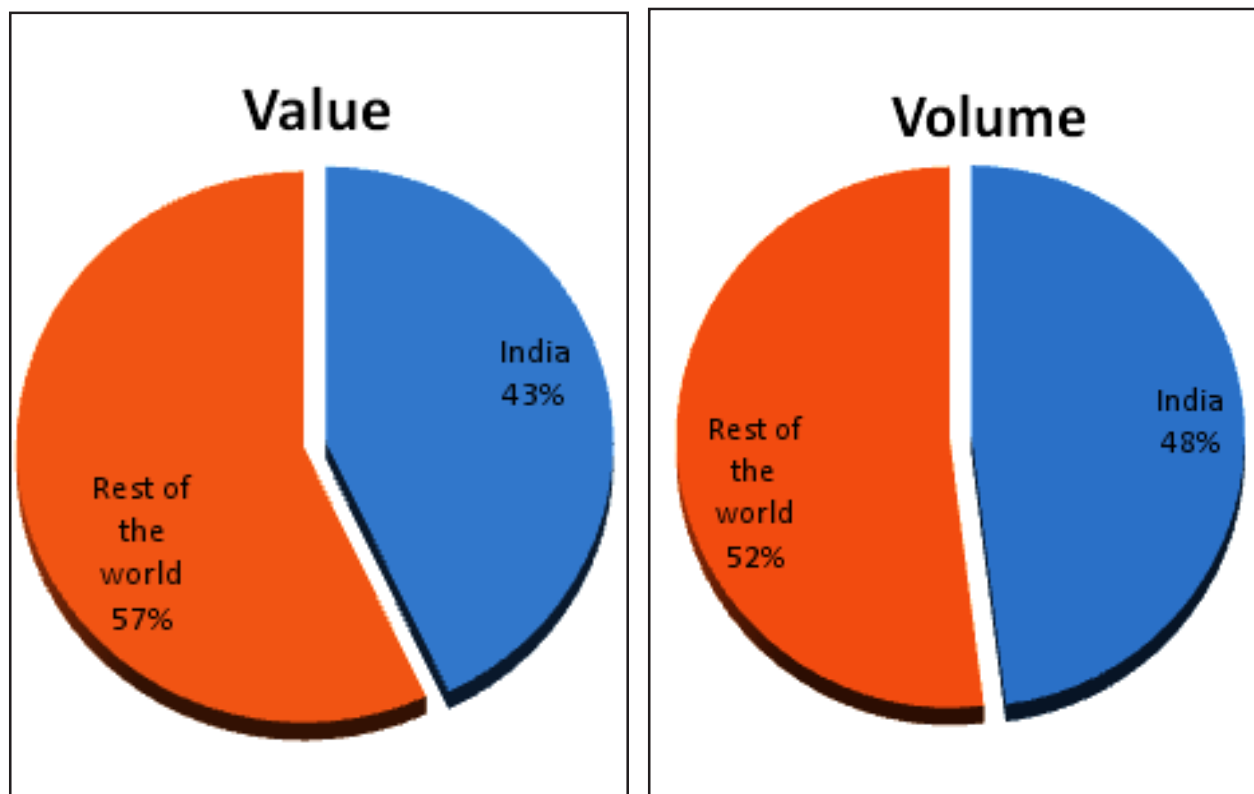
4. Increasing share of spices export earnings in agriculture



5. Share of Indian spices in global spices export



6. Share of Indian spices in Global spices export



1. Spices - General

Table 1.1 Trend in area, production and productivity of Spices for the last twenty years

Year	Area ('000 ha)	Production ('000 tonnes)	Productivity (kg/ha)
2001-02	2790.220	3425.996	1228
2002-03	2503.557	2950.946	1179
2003-04	2637.258	3923.326	1488
2004-05	2454.743	3875.844	1579
2005-06	2345.021	3896.864	1662
2006-07	2471.319	4106.548	1662
2007-08	2630.567	4460.179	1696
2008-09	2829.461	5078.988	1795
2009-10	2940.309	5267.746	1792
2010-11	3047.124	5875.627	1928
2011-12	3407.462	6746.073	1980
2012-13	3061.703	6067.182	1982
2013-14	3156.084	6361.426	2016
2014-15	3224.357	6764.634	2098
2015-16	3464.438	6989.723	2018
2016-17	4110.997	10469.720	2547
2017-18	3906.982	9566.991	2449
2018-19	4003.500	9300.306	2323
2019-20	4306.065	10171.452	2362
2020-21	4528.176	10679.221	2358

Table 1.2 (a) Crop-wise area, production and productivity of Spices 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Yield : kg/ha)

Crops	2013-14			2014-15			2015-16			2016-17		
	Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield
Pepper	122.802	40.864	333	129.040	64.447	499	131.756	73.355	557	134.281	62.080	462
Ginger	147.970	1031.269	6969	163.189	1222.956	7494	158.689	1107.389	6978	171.731	1830.590	10660
Chillies	686.135	1534.195	2236	709.984	1631.535	2298	741.730	1494.691	2015	859.787	2449.590	2849
Turmeric	185.354	943.815	5092	202.564	983.655	4856	209.535	981.409	4684	247.630	925.269	3736
Garlic	256.346	1418.128	5532	257.980	1398.910	5423	295.469	1600.309	5416	367.547	3034.807	8257
Cardamom	85.271	21.762	255	85.235	23.986	281	85.527	28.069	328	84.843	27.255	321
Coriander	455.760	341.885	750	640.661	579.555	905	624.986	572.662	916	673.698	864.371	1283
Cumin	944.446	598.493	634	703.510	373.781	531	808.232	503.261	623	780.924	500.359	641
Fennel	39.125	60.111	1536	54.729	85.551	1563	75.997	129.354	1702	89.544	148.561	1659
Fenugreek	97.263	110.697	1138	143.848	144.246	1003	200.669	247.357	1233	220.669	310.067	1405
Ajwan	30.145	17.851	592	26.741	16.631	622	26.599	16.005	602	35.007	23.972	685
Dill/Poppy/Celery	24.271	20.527	846	25.262	22.778	902	25.635	23.358	911	35.579	35.476	997
Cinnamon/Tejpat	2.776	5.114	1842	2.757	5.062	1836	2.761	5.065	1835	2.675	5.145	1923
Nutmeg	20.106	13.460	669	21.113	14.396	682	22.358	15.169	678	22.755	14.016	616
Clove	2.266	1.208	533	2.377	1.251	526	2.335	1.202	515	2.202	1.227	557
Tamarind	51.738	201.758	3900	49.125	194.840	3966	47.656	190.783	4003	49.663	202.149	4070
Vanilla/Saffron	4.310	0.289	67	6.242	1.054	169	4.504	0.286	63	4.614	0.312	68
Mint (Mentha)										327.848	34.476	105
Total	3156.084	6361.426	2016	3224.3570	6764.634	2098	3464.438	6989.723	2018	4110.997	10469.720	2547

Note: Ginger production are in terms of Fresh & Turmeric production in terms of Dry from 2016-17, Mint production in terms of mentha oil

Table 1.2 (b) Crop-wise area, production and productivity of Spices 2017-18 to 2020-21

(Area: '000 ha, Production:'000 tonnes, Yield : kg/ha)

Crops	2017-18			2018-19			2019-20			2020-21 (3rd Adv. Est.)		
	Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield
Pepper	139.487	71.448	512	244.209	136.794	560	259.148	104.071	402	260.229	120.465	463
Ginger	165.275	1761.552	10658	167.389	1851.088	11059	178.134	1868.435	10489	176.348	1886.533	10698
Chillies	676.148	1710.731	2530	706.709	1515.557	2145	623.446	1841.799	2954	728.627	2092.153	2871
Turmeric	231.389	862.768	3729	261.922	957.127	3654	296.181	1178.751	3980	291.279	1064.441	3654
Garlic	409.716	3113.737	7600	353.496	2918.948	8257	352.644	2926.090	8298	390.639	3184.809	8153
Cardamom	82.172	28.311	345	83.336	22.065	265	85.433	20.907	245	83.635	33.811	404
Coriander	544.239	721.394	1326	469.986	599.478	1276	528.970	700.813	1325	661.773	831.918	1257
Cumin	966.169	689.420	714	1027.940	700.647	682	1276.283	912.041	715	1241.064	856.199	690
Fennel	65.805	103.827	1578	90.460	157.479	1741	82.731	139.762	1689	78.976	127.160	1610
Fenugreek	149.457	215.927	1445	119.783	183.912	1535	126.294	182.170	1442	121.327	202.631	1670
Ajwan	35.418	24.207	683	35.886	19.618	547	41.134	28.973	704	28.997	21.841	753
Dill/Poppy/Celery	35.772	33.475	936	29.656	29.032	979	32.798	34.566	1054	31.170	30.592	981
Cinnamon/Tejpat	2.698	5.085	1885	2.990	7.434	2486	3.021	7.561	2503	1.964	4.911	2500
Nutmeg	23.881	15.547	651	23.703	15.353	648	24.252	15.688	647	23.347	14.923	639
Clove	2.315	1.239	535	2.154	1.226	569	2.043	1.144	560	2.151	1.192	554
Tamarind	45.336	175.443	3870	45.210	147.821	3270	44.098	163.315	3703	43.617	158.502	3634
Vanilla	0.384	0.140	366	0.125	0.067	538	0.091	0.060	659	0.147	0.067	456
Mint (Mentha)	327.633	32.736	100	334.887	36.655	109	345.841	45.303	131	359.230	47.069	131
Saffron	3.688	0.005	1	3.658	0.004	1	3.523	0.004	1	3.657	0.004	1
Total	3906.982	9566.991	2449	4003.500	9300.306	2323	4306.064	10171.452	2362	4528.176	10679.221	2358

Note: 1. Ginger production are in terms of Fresh, 2. Turmeric production in terms of Dry, 3. Mint production in terms of mentha oil

Table 1.3 (a) State-wise area and production of spices 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes)

State	2013-14		2014-15		2015-16		2016-17	
	Area	Prod.	Area	Prod.	Area	Prod.	Area	Prod.
Andhra Pradesh	169.362	775.817	200.675	918.018	212.728	766.155	246.448	1144.656
Arunachal Pradesh	10.165	64.264	10.455	71.007	11.440	68.710	13.160	81.007
Assam	91.317	229.523	98.595	321.020	95.031	267.868	97.665	284.979
Bihar	10.041	13.819	9.963	12.049	8.879	10.572	9.912	14.712
Chhattisgarh	13.372	11.828	13.050	10.196	14.318	10.740	11.853	19.843
Goa	0.905	0.284	0.942	0.249	0.976	0.265	0.982	0.292
Gujarat	608.852	1019.963	473.822	1014.470	508.748	1077.561	510.750	848.328
Haryana	16.117	82.818	16.117	82.818	16.117	82.818	17.050	60.200
Himachal Pradesh	7.243	22.530	8.028	21.598	7.681	22.472	7.704	22.784
Jammu & Kashmir	4.826	1.345	4.929	0.955	5.082	1.159	5.115	1.206
Karnataka	193.554	332.486	218.667	400.297	225.277	401.198	249.797	750.823
Kerala	166.423	131.788	167.293	140.225	169.589	147.517	167.061	204.682
Madhya Pradesh	344.704	698.867	386.358	678.690	441.185	710.896	628.194	2945.094
Maharashtra	40.501	341.275	44.911	420.714	41.815	371.712	31.177	213.446
Manipur	10.470	24.140	10.470	24.140	10.470	24.140	10.470	24.260
Meghalaya	17.498	83.884	18.289	89.677	18.507	91.332	16.722	83.491
Mizoram	22.942	63.789	23.302	65.724	24.578	68.892	27.398	102.616
Nagaland	14.422	113.226	15.165	116.370	16.172	109.000	15.822	96.814
Orissa	130.392	303.132	151.648	296.717	146.613	285.684	146.631	287.017
Punjab	21.332	91.520	33.642	92.971	31.312	98.883	31.312	98.883
Rajasthan	821.627	674.811	873.060	623.969	987.269	1055.222	1004.383	1391.798
Sikkim	27.120	61.840	28.320	61.520	29.460	64.780	32.250	66.580
Tamil Nadu	106.382	187.317	105.057	196.127	113.196	202.532	116.142	213.588
Telangana	134.168	551.517	122.345	493.930	128.873	443.404	183.101	818.084
Tripura	5.684	18.040	5.684	18.040	5.684	18.040	7.279	36.097
Uttar Pradesh	59.282	209.243	57.077	230.062	58.594	217.672	386.997	281.008
Uttarakhand	8.083	41.078	7.133	35.730	14.848	37.066	14.977	38.824
West Bengal	97.555	207.720	117.615	323.760	118.255	329.889	119.651	334.435
Pondicherry	0.079	0.359	0.079	0.388	0.075	0.341	0.079	0.321
Andaman & Nicobar Islands	1.666	3.203	1.666	3.203	1.666	3.203	0.914	3.853
Total	3156.084	6361.426	3224.357	6764.634	3464.438	6989.723	4110.997	10469.720

Table 1.3 (b) State-wise area and production of spices 2017-18 to 2020-21

(Area: '000 ha, Production: '000 tonnes)

State	2017-18		2018-19		2019-20		2020-21 (3rd Adv. est.)	
	Area	Prod.	Area	Prod.	Area	Prod.	Area	Prod.
Andhra Pradesh	155.461	714.629	206.774	592.865	200.133	896.196	217.061	885.550
Arunachal Pradesh	4.738	27.533	14.587	29.138	15.595	29.207	14.038	21.488
Assam	98.875	297.024	97.195	300.242	104.613	331.009	133.507	337.863
Bihar	8.261	12.277	10.012	16.708	9.290	15.347	9.369	14.761
Chhattisgarh	11.407	17.640	12.276	18.965	13.514	15.714	12.263	18.041
Goa	1.015	0.335	1.050	0.356	1.072	0.332	1.090	0.343
Gujarat	566.974	917.309	490.727	747.157	699.061	1009.930	713.933	1033.184
Haryana	13.665	74.824	11.119	64.490	11.596	65.706	10.539	52.330
Himachal Pradesh	6.836	17.581	6.879	12.197	7.285	13.809	7.305	13.830
Jammu & Kashmir	5.065	1.001	5.047	1.159	4.898	1.135	5.069	1.676
Karnataka	218.094	662.411	370.564	755.145	294.848	612.935	337.005	707.753
Kerala	165.934	203.055	161.266	164.436	163.039	157.216	162.579	166.273
Madhya Pradesh	657.364	3036.249	640.970	2970.690	666.705	3075.979	710.229	3308.784
Maharashtra	39.740	224.391	38.404	196.962	76.336	388.042	82.044	424.134
Manipur	11.620	27.926	8.007	85.718	8.117	83.872	6.449	53.497
Meghalaya	16.346	76.429	15.647	75.365	15.244	75.417	14.247	71.663
Mizoram	27.667	100.934	27.670	100.931	28.216	101.491	27.822	100.932
Nagaland	9.863	56.698	11.373	44.288	11.345	44.559	10.955	42.140
Orissa	148.195	297.260	148.195	297.260	148.195	297.260	148.105	294.448
Punjab	31.312	98.883	34.515	118.328	34.578	122.060	23.119	124.208
Rajasthan	918.659	1144.716	928.896	1044.527	1020.530	1058.914	1082.125	1228.864
Sikkim	32.250	66.580	42.588	106.334	42.614	106.535	42.347	102.566
Tamil Nadu	96.531	154.960	104.059	171.948	101.624	188.403	115.082	182.217
Telangana	130.263	662.967	141.256	740.296	142.391	853.094	139.534	845.309
Tripura	6.595	32.435	6.604	24.464	6.590	24.781	6.734	29.469
Uttar Pradesh	386.938	248.726	391.994	286.684	403.194	266.181	416.835	278.686
Uttarakhand	16.089	45.563	13.593	79.649	13.988	81.790	14.598	84.119
West Bengal	120.198	343.652	61.572	251.846	60.918	253.060	63.784	253.866
Pondicherry	0.083	0.383	0.080	0.408	0.085	0.321	0.085	0.259
Andaman & Nicobar Islands	0.945	2.620	0.581	1.748	0.450	1.156	0.326	0.970
Total	3906.982	9566.991	4003.500	9300.306	4306.064	10171.452	4528.176	10679.221

Table 1.4 Item-wise export of spices from India 2015-16 to 2020-21

(Quantity: tonnes, Value: Rs in lakhs)

Spices	2015-16		2016-17		2017-18		2018-19		2019-20		2020-21	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Pepper	28,100	173,042	17,600	114,313	16,840	82,078	13,540	56,868	17,000	57,371	16,300	54,446
Cardamom (Small)	5,500	44,983	3,850	42,150	5,680	60,908	2,850	35,625	1,850	42,537	6,500	110,675
Cardamom (Large)	600	7,551	780	8,265	760	5,647	860	6,106	1,310	7,090	1,325	9,126
Chilli	347,500	399,744	400,250	507,076	443,900	425,633	468,500	541,118	496,000	671,040	601,500	842,975
Ginger	24,800	27,596	24,950	25,705	22,605	21,607	18,150	19,602	60,410	52,905	125,700	75,665
Turmeric	88,500	92,165	116,500	124,191	107,300	103,568	133,600	141,616	137,650	128,691	183,000	167,660
Coriander	40,100	42,681	30,300	29,208	35,185	27,275	48,900	35,208	47,135	39,831	57,000	48,983
Cumin	97,790	153,113	119,000	196,320	143,670	241,799	180,300	288,480	214,190	332,806	299,000	425,310
Celery	5,310	5,328	6,250	6,246	6,480	5,950	6,100	6,649	6,230	6,904	7,650	9,984
Fennel	15,320	17,240	35,150	30,876	34,550	25,906	26,250	24,413	24,220	23,162	31,800	27,630
Fenugreek	33,330	23,381	34,680	18,277	29,280	12,689	27,150	13,847	26,570	15,690	38,300	24,642
Other seeds (1)	23,880	16,206	18,100	15,456	22,175	16,046	29,740	18,736	37,580	22,081	48,800	30,008
Garlic	23,085	15,959	32,200	30,712	46,980	30,936	29,500	17,110	22,280	17,183	17,950	15,630
Nutmeg & Mace	4,050	20,928	5,070	23,642	5,500	22,094	3,300	15,015	2,900	13,280	3,875	19,000
Other spices (2)	43,955	58,349	40,210	50,595	38,305	65,253	43,300	61,486	37,235	66,546	44,000	70,943
Curry powder/Paste	26,550	53,175	28,500	59,910	30,150	61,620	33,850	74,470	38,370	81,279	38,450	89,145
Mint Products (3)	23,250	258,130	22,300	252,750	21,500	322,835	21,610	374,934	24,470	383,202	27,400	366,825
Spice Oils and Oleoresins	11,635	214,255	12,100	245,533	17,200	266,172	12,750	219,300	13,000	244,683	16,450	330,675
Total	843,255	1,623,823	947,790	1,781,224	1,028,060	1,798,016	1,100,250	1,950,581	1,208,400	2,206,280	1,565,000	2,719,320
Million US \$		2,482.83		2,655.29		2,789.35		2,805.50		3,110.63		3,624.76

(1) Include Ajwan seed, Dill seed, Poppy seed, Aniseed, Mustard etc.

(2) Include Asafoetida, Cinnamon, Cassia, Cambodge, Saffron, Vanilla, Spices (NES) etc.

(3) Include menthol, menthol crystals and mint oils

Table 1.5 Major country-wise export of spices from India 2014-15 to 2019-20

(Quantity: tonnes, Value: Rs in lakhs)

Country	2014-15		2015-16		2016-17		2017-18		2018-19		2019-20	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
China	20635	147443	14719	119788	14921	116970	28981	193422	93649	273054	213835	505323
U.S.A	80919	270464	75702	281558	70795	288660	79882	302422	82202	283059	87804	335127
Bangladesh	91662	52892	36340	17737	76764	57615	53154	46709	80027	91018	141032	117703
U.A.E	68193	73823	69120	76110	73199	81601	77587	88593	65140	83047	80203	107833
Thailand	55174	58267	62291	78946	63698	106642	67043	71037	74215	92242	67945	107813
Sri Lanka	60112	47157	61179	63422	63227	64071	65518	47723	67884	61502	63927	75444
Malaysia	62555	69090	61505	75233	68443	82864	62545	60045	64998	68474	55680	74566
U.K	27246	62588	30932	71488	29436	75745	30659	68138	31408	69620	32112	65405
Indonesia	71187	72104	24455	30848	39119	54249	42286	41458	40804	56060	43308	64231
Germany	9529	44960	9952	46432	10727	51576	10222	52249	10601	46568	9218	48494
Nepal	20741	16517	29573	26600	25171	22443	27234	23478	38717	33435	49463	39565
Saudi Arabia	26177	45290	28211	62752	28740	59996	26267	59732	25784	32131	28320	34376
Morocco					10412	10571	14188	14992	16681	18581	22858	33006
Singapore	10477	29233	9529	30722	8935	29592	7815	21523	8705	33207	8567	32114
Japan	8198	28216	7342	30432	7473	33732	7532	28030	7379	31074	8470	31099
France	4238	18997	4207	25955	4901	28242	4518	26057	4694	29745	4484	30233
Netherlands	7766	26965	7555	28803	6709	30819	8081	38411	7711	32299	8293	28090
Australia	6159	15735	8789	21917	7628	21160	8430	21213	8894	23432	9590	25263
Vietnam	107452	128142	91627	135546	128568	178856	206879	226743	123673	168959	18530	24144
Egypt					8898	12463	8406	12412	17521	23113	15134	22477
Afganisthan					36	352	321	768	5300	8591	14511	21689
Iran	12766	11283	16334	20668	19349	23475	21488	23113	22605	27752	19119	21569
Qatar					7596	10427	10650	13864	11765	14846	12799	14606
Brazil	9500	16888	7864	14616	9002	16300	10991	19881	9327	16143	9478	14604
Spain	14209	23646	9746	21909	14346	28117	8082	18396	5855	12570	6610	14537
Korea (South)					3876	16055	4339	14413	3422	15446	3098	14396
Total (incl. others)	893920	1489968	843255	1623823	947790	1781224	1028060	1798016	1100250	1950581	1208400	2206280

∞ Table 1.6 Item-wise import of spices in India 2015-16 to 2019-20

Spices	2015-16		2016-17		2017-18		2018-19		2019-20	
	Quantity (tonnes)	Value (Rs in lakhs)	Quantity (tonnes)	Value (Rs in lakhs)	Quantity (tonnes)	Value (Rs in lakhs)	Quantity (tonnes)	Value (Rs in lakhs)	Quantity (tonnes)	Value (Rs in lakhs)
Pepper (1)	19365	116296	20265	111590	29650	109084	24950	77991	26230	58153
Cardamom (Small)	850	4474	1720	8870	685	4379	479	4136	470	5688
Cardamom (Large)	3410	30795	3120	24242	5670	33109	3343	17599	6300	32046
Chilli/Paprika	425	1024	1055	1932	1450	2700	1230	1961	1280	2120
Ginger Fresh/Dry	26,610	10116	35,605	9201	34,300	10060	30085	16154	41100	24261
Turmeric	15,330	14635	14,150	16498	17,120	18434	30578	29947	28580	24579
Coriander	25305	17467	44485	22049	28040	13200	13230	5609	12000	8027
Cumin black/white	2000	3441	2800	4975	3420	6066	950	1831	2615	4419
Mustard Seed	1325	813	850	478	300	216	30	48	10	10
Poppy seed	10210	18379	18010	29515	8540	14005	18450	31788	19940	44177
Garlic	1810	812	80	208	450	988	445	719	2750	953
Clove	20235	104542	17095	86970	19510	96759	16940	82139	27190	112867
Nutmeg	490	1955	340	1458	530	1817	1195	4551	1645	5545
Mace	1200	7950	1055	7284	1750	11888	1890	15817	1910	21137
Cassia	19405	24222	22280	29062	26430	33251	28180	42133	30000	57288
Star anise	4810	9051	4965	9530	7900	15107	5825	12019	6600	24758
Other spices (2)	11135	51771	12090	45648	16880	77611	26090	107447	27290	119860
Oils & Oleoresins (3)	2005	28878	3260	51183	3580	51545	3410	51314	4980	64289
Total	165920	446622	203225	460692	206205	500217	207300	503206	240890	610177
Value in Million US \$		698.02		686.78		776.07		724.18		860.00

(1) Include white pepper, light pepper & black pepper

(2) Include Aniseed, Asafoetida, Cinnamon, Pepper long, Cambodge, Herbal spices and Spices NES

(3) Include Spice Oils & Oleoresins and Mint products

Table 1.7 Trend in export and import of spices for the last twenty years

Year	Export		Import	
	Quantity (tonnes)	Value (Rs in lakhs)	Quantity (tonnes)	Value (Rs in lakhs)
2001-02	243202	194055	86335	50508
2002-03	264108	208671	121363	58873
2003-04	254380	191160	126233	56364
2004-05	335488	220000	102241	56312
2005-06	350363	262762	90412	53924
2006-07	373750	357575	126794	78908
2007-08	444250	443550	90000	64550
2008-09	470520	530026	83545	76539
2009-10	502750	556050	106700	110046
2010-11	525750	684071	86775	117551
2011-12	575270	978342	111136	209448
2012-13	726613	1211276	131722	210232
2013-14	817250	1373539	130010	290500
2014-15	893920	1489968	138715	384382
2015-16	843255	1623823	165920	446622
2016-17	947790	1781224	203225	460692
2017-18	1028060	1792900	206205	500217
2018-19	1100250	1950600	207300	503206
2019-20	1208400	2206280	240890	610177
2020-21	1565000	2719320	NA	NA

Table 1.8 Value of output of Spices at current prices

Rs in lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	430315	334217	493004	704491	832008	869842	903113
Arunachal Pradesh	60051	74292	90942	97973	87176	64375	48671
Assam	252410	368070	307460	394841	408094	394923	407571
Bihar	6717	7599	9525	12037	12945	10305	12166
Chhattisgarh	9186	11174	11684	20581	22887	14624	10116
Goa	6037	4876	6332	7500	8925	8845	9704
Gujarat	563502	546703	596955	912802	1024443	985255	1171456
Haryana	23137	23377	37615	32812	39957	37867	37025
Himachal Pradesh	26463	10847	42116	52686	66849	59213	60940
Jammu & Kashmir	2604	3079	3313	1759	2918	2810	2342
Jharkhand	231694	297406	332947	385864	170441	222494	314604
Karnataka	629740	628365	949523	1278873	1450815	1343002	2037293
Kerala	415401	469087	425558	709252	750577	684338	651114
Madhya Pradesh	175435	182051	671594	755313	546219	728651	958616
Maharashtra	69124	58136	71326	99935	471405	436749	386080
Manipur	15337	12566	19292	18372	21124	17356	22855
Meghalaya	17971	21702	23194	24216	25788	28317	29958
Mizoram	15178	14822	17428	20599	24854	18419	20210
Nagaland	10928	15091	28121	31983	32741	31945	37387
Odisha	175842	202184	208347	242973	136886	168050	172743
Punjab	22468	30645	30920	34973	37030	45919	50259
Rajasthan	464133	417560	478706	453757	850871	1188008	924160
Sikkim	38987	48008	52404	58366	64727	76993	90353
Tamil Nadu	366944	186749	140841	178241	219319	255158	211143
Telangana	306224	348786	341041	354841	352838	690159	579095
Tripura	27018	29549	16852	26675	27380	28769	64686
Uttar Pradesh	46671	47397	85964	89678	132818	177184	81601
Uttarakhand	29184	22569	28282	38587	32711	21492	19417
West Bengal	192450	204013	245631	272513	352997	385044	383902
A & N Islands	6119	6860	6315	12344	15883	16576	16751
Pondicherry	2720	3491	611	799	911	986	1001
Total	4639990	4631271	5773843	7325636	8224537	9013668	9716332

It includes arecanut and excludes saffron

Table 1.9 Value of output of Spices at 2011-12 prices

Rs in lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	430315	344296	430358	520477	437067	651140	662207
Arunachal Pradesh	60051	67251	73173	75223	66599	51445	42567
Assam	252410	346041	285081	305524	287695	273822	281159
Bihar	6717	7993	8763	9358	8256	6517	6860
Chhattisgarh	9186	9620	7859	12604	12481	7623	7975
Goa	6037	4406	4438	4459	4566	4805	5144
Gujarat	563502	709362	713157	867142	824622	812716	978774
Haryana	23137	31096	35978	27096	28480	27301	26567
Himachal Pradesh	26463	23337	24938	29396	33262	33446	34643
Jammu & Kashmir	2604	2910	2976	1523	2189	2266	1916
Jharkhand	231694	272868	271212	273248	99134	123641	173371
Karnataka	629740	581874	686242	696296	695397	705824	942537
Kerala	415401	416335	386236	463379	502168	438531	451715
Madhya Pradesh	175435	175648	540564	565609	352471	481765	621253
Maharashtra	69124	62613	71261	88764	363482	322513	334394
Manipur	15337	15306	15221	15507	16756	13229	14929
Meghalaya	17971	21399	22305	22837	23520	23699	23652
Mizoram	15178	12726	13146	13623	13894	17023	18575
Nagaland	10928	13079	21185	23507	22396	20729	21372
Odisha	175842	181679	180071	197431	93757	100827	100851
Punjab	22468	32025	32025	37969	39445	49801	50339
Rajasthan	464133	366390	386096	286485	445662	497676	529381
Sikkim	38987	40859	41375	42057	44000	46824	49960
Tamil Nadu	366944	198870	142441	148079	156227	165200	121949
Telangana	306224	349219	315081	281614	254400	473606	379165
Tripura	27018	27013	15718	17306	15718	15718	29955
Uttar Pradesh	46671	44162	49646	45135	43924	54953	45616
Uttarakhand	29184	17748	17880	19828	16401	16271	16412
West Bengal	192450	194284	196850	197899	237762	239438	248073
A & N Islands	6119	6860	6315	9342	10171	11353	11550
Pondicherry	2720	2910	449	449	444	455	426
Total	4639990	4580181	4998038	5299166	5152348	5690157	6233285

It includes arecanut and excludes saffron

2. Black Pepper

Table 2.1 Trend in area, production and productivity of black pepper for the last twenty years

Year	Area ('000 ha)	Production ('000 tonnes)	Productivity (kg/ha)
2001-02	118.220	62.440	528
2002-03	121.870	72.465	595
2003-04	126.070	73.210	581
2004-05	138.420	79.450	574
2005-06	142.192	92.940	654
2006-07	128.240	68.927	537
2007-08	110.201	47.010	427
2008-09	104.130	48.099	462
2009-10	114.599	52.753	460
2010-11	116.689	61.206	525
2011-12	117.204	47.166	402
2012-13	122.144	62.328	510
2013-14	122.798	40.854	333
2014-15	129.051	64.456	499
2015-16	131.756	73.355	557
2016-17	134.279	62.080	462
2017-18	139.487	71.448	512
2018-19	244.209	136.794	560
2019-20	259.148	104.071	402
2020-21	260.229	120.465	463

Table 2.2 (a) State-wise area, production and productivity of black pepper in India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Productivity: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield
Andhra Pradesh	0.004	0.003	750	-	-	-	-	-	-	-	-	-
Assam	3.520	2.007	570	3.794	2.228	587	3.302	1.988	602	3.376	2.333	691
Goa	0.737	0.234	318	0.764	0.244	319	0.783	0.258	330	0.777	0.282	363
Karnataka	27.958	6.950	249	32.672	19.190	587	34.990	26.771	765	37.746	22.878	606
Kerala	84.065	29.408	350	85.431	40.690	476	85.948	42.132	490	85.207	34.065	400
Maharashtra	0.590	0.437	741	0.090	0.100	1111	0.093	0.105	1,129	0.095	0.111	1,168
Meghalaya	0.946	0.641	678	0.980	0.710	724	0.999	0.737	738	1.013	0.757	747
Mizoram	0.070	0.007	100	0.070	0.003	36	0.070	0.003	36	0.070	0.003	36
Nagaland	0.140	0.020	143	0.160	0.030	188	0.116	0.024	207	0.133	0.030	226
Tamil Nadu	3.918	0.860	219	4.000	0.900	225	4.349	0.974	224	4.907	1.075	219
Tripura	0.239	0.151	632	0.239	0.151	632	0.239	0.151	632	0.380	0.410	1,079
West Bengal				0.240	0.060	250	0.256	0.064	250	0.268	0.066	246
Pondicherry	0.011	0.006	333	0.011	0.020	1818	0.011	0.018	1,636	0.010	0.018	1,800
Andaman & Nicobar	0.600	0.130	545	0.600	0.130	217	0.600	0.130	217	0.297	0.053	178
Total	122.798	40.854	333	129.051	64.456	499	131.756	73.355	557	134.279	62.080	462

Table 2.2 (b) State-wise area, production and productivity of black pepper in India 2017-18 to 2020-21

(Area: '000 ha, Production:'000 tonnes, Yield : kg/ha)

State	2017-18			2018-19			2019-20			2020-21 (3rd Adv. Est.)		
	Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield	Area	Prod.	Yield
Andhra Pradesh	0.001	-	-	0.001	-	-	0.432	0.250	579	0.890	0.531	597
Arunachal Pradesh										0.102	0.151	1,484
Assam	3.458	2.515	727	3.388	2.467	728	4.067	2.899	713	4.087	3.055	747
Goa	0.794	0.324	408	0.849	0.346	408	0.843	0.315	374	0.855	0.324	379
Karnataka	41.381	27.174	657	148.379	94.142	634	160.774	63.028	392	160.774	78.585	489
Kerala	85.141	37.955	446	82.761	36.776	444	83.765	34.545	412	83.788	34.524	412
Maharashtra	1.225	0.629	513	1.327	0.672	506	1.327	0.673	507	1.235	0.568	447
Meghalaya	1.025	0.770	751	1.036	0.781	754	1.028	0.771	750	1.024	0.767	749
Mizoram	0.070	0.003	36	0.070	0.003	36	0.070	0.003	36	0.070	0.003	36
Nagaland	0.133	0.030	222	0.116	0.028	238	0.114	0.026	228	0.101	0.024	235
TamilNadu	5.265	1.149	218	5.571	1.176	211	6.080	1.306	215	6.576	1.440	219
Tripura	0.294	0.300	1,019	0.294	0.302	1,026	0.223	0.133	596	0.330	0.342	1,037
West Bengal	0.290	0.522	1,800	0.316	0.080	253	0.325	0.087	268	0.325	0.084	258
Pondicherry	0.010	0.018	1,800	0.011	0.015	1,364	0.011	0.015	1,364	0.012	0.018	1,625
Andaman & Nicobar	0.400	0.060	150	0.090	0.008	84	0.089	0.021	235	0.060	0.049	828
Total	139.48	71.448	512	244.209	136.794	560	259.148	104.071	402	260.229	120.465	463

From 2018-19 onwards Karnataka State adopted a new methodology in area estimation. Hence the sudden increase in both area & production

Table 2.3 District-wise area, production and productivity of black pepper in Kerala 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Thiruvananthapuram	2293	972	424	2177	846	389	1978	690	349	2003	670	334	1942	604	311
Kollam	3330	1093	328	3180	898	282	2911	836	287	2870	861	300	2846	849	298
Pathanamthitta	1707	599	351	1683	537	319	1687	621	368	1593	506	317	1617	520	322
Alappuzha	616	134	218	605	135	223	619	125	202	609	117	192	690	133	193
Kottayam	3215	1150	358	3248	1012	312	3174	1277	402	3015	1215	403	3023	1009	334
Idukki	42694	25495	597	43790	18726	428	44533	24911	559	43104	23981	556	42822	20560	480
Ernakulam	1867	527	282	1866	467	250	1767	454	257	1844	441	239	1895	426	225
Thrissur	1790	479	268	1901	480	252	1793	559	312	1742	503	289	1741	462	265
Palakkad	2510	954	380	2488	1000	402	2319	897	387	2654	1095	413	2674	1002	375
Malappuram	2938	460	157	2641	584	221	2718	523	192	2368	478	202	2674	550	206
Kozhikode	3474	934	269	3755	1059	282	3666	635	173	3590	953	266	3432	880	256
Wayanad	12498	6593	528	10565	4136	391	10782	3414	317	9939	3123	314	10307	3694	358
Kannur	4269	1553	364	4394	2447	557	4348	1477	340	4341	1429	329	4742	2140	451
Kasaragod	2747	1189	433	2914	1738	596	2846	1536	540	3088	1405	455	3360	1716	511
State	85948	42132	490	85207	34065	400	85141	37955	446	82761	36776	444	83765	34545	412

Table 2.4 District-wise area, production and productivity of black pepper in Karnataka 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Bangalore urban	11	8.4	764	2	1	600	1	0.7	700	0	0	0	8	3	388
Bangalore rural	2	2	750	0	0										
Belgaum	3	2	767	6	4	600									
Bidar	2	2	750		0										
Chamarajanagar	141	108	765	141	85	606	142	93	656	37	24	635	34	13	391
Chikmagalore	8003	8383	1047	8194	7122	869	8199	7598	927	34097	25790	756	40520	12034	297
Chitradurga	75	57	765	1	1	600	24	16	658	24	15	633	24	9	392
Dakshin Kannada	2736	1029	376	3122	831	266	3558	2043	574	5322	1054	198	7146	3021	423
Davangare	487	373	765	115	70	606	205	135	657	420	267	635	429	168	392
Dharwad	0	0			0		1	1	700	0	0		8	3	388
Gadag	20	15	765	8	5	600	0	0		0	0		23	9	391
Hassan	5301	7069	1334	7800	6270	804	9614	7586	789	33788	35390	1047	30665	14876	485
Haveri	10	8	770	7	4	600	15	10	653	36	23	633	66	26	392
Kodagu	15096	6636	440	15219	6223	409	15875	6915	436	65605	27149	414	70757	28440	402
Mandya	27	21	767		0		0	0		0	0		11	4	391
Mysore	42	32	764	73	44	605	39	26	656	39	25	633	98	38	392
Ramanagaram	10	8	770	6	4	600	6	4	650	0	0			0	
Shimoga	1478	1836	1242	1378	804	583	1722	1040	604	4155	2184	526	4903	1505	307
Tumkur	36	28	764	71	43	606	0	0		0	0		44	17	391
Udupi	389	298	765	420	255	606	477	313	656	747	474	635	1251	490	392
Uttara Kannada	1121	858	765	1183	1113	940	1503	1396	929	4109	1749	426	4787	2370	495
Total	34990	26771	765	37746	22878	606	41381	27174	657	148379	94142	634160774	63028	392	

From 2018-19 onwards Karnataka State adopted a new methodology in area estimation. Hence the sudden increase in both area & production

Table 2.5 District-wise area, production and productivity of black pepper in Tamil Nadu 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Cuddalore				1	0	223									
Kallakurichi													41	8	195
The Nilgiris	915	159	174	979	172	176	997	175	176	975	171	175	980	172	176
Dindigul	999	362	362	957	346	362	1000	362	362	959	347	362	1050	380	362
Namakkal	988	182	184	1340	247	184	1537	283	184	1741	320	184	1990	366	184
Salem	838	154	184	1035	190	184	1117	206	184	1126	207	184	1160	213	184
Coimbatore	128	27	211	129	27	208	135	28	207	135	28	207	141	29	206
Kanyakumari	284	43	151	288	44	153	283	43	152	293	45	154	323	49	152
Theni	96	29	302	122	37	304	127	39	307	124	38	306	115	35	304
Tirunelveli	24	5	208	33	7	204	34	7	206	33	7	212			
Erode	2	0	0	1	0	225	4	1	250	1		0	10	2	200
Thanjavur	36	7	194	6	1	202	10	2	200	22	4	182	6	1	167
Dharmapuri	30	5	167	3	0	164	2	0	0	118		0	118	19	161
Tiruchirappalli	1	0	0	1	0	172	1	0	0	1	1	0	7	1	143
Thirupur	8	1	125	7	1	161	1	0	0	1	1	0	1	0	0
Krishnagiri		0											1	0	0
Pudukottai				3	1	223	11	2	182	10	2	200	7	2	286
Villupuram				2	0	223	5	1	200	6	1	167			
Thiruvavur													2		0
Thenkasi													34	7	206
Thiruvannamalai							1	0	0	26	6	231	94	22	234
Total	4349	974	224	4907	1075	219	5265	1149	218	5571	1176	211	6080	1306	215

Table 2.6 Trend in export and import of pepper in India for the last twenty years

Year	Export		Import	
	Quantity (tonnes)	Value (Rs in lakhs)	Quantity (tonnes)	Value (Rs in lakhs)
2001-02	22877	20369	6328	5636.3
2002-03	21609	17888	15392	12338
2003-04	16635	14277	14334	9923
2004-05	14150	12140	17725	11604
2005-06	17363	15095	16870	10360
2006-07	28750	30620	15750	13642
2007-08	35000	51950	13500	19389
2008-09	25250	41374	10750	17665
2009-10	19750	31393	18100	23466
2010-11	18850	38319	16100	27011
2011-12	26700	87813	17565	53340
2012-13	15363	63810	15600	56944
2013-14	21250	94002	15680	61620
2014-15	21450	120,842	21300	110710
2015-16	28,100	173,042	19365	116296
2016-17	17,600	114,313	20265	111590
2017-18	16,840	82,078	29650	109084
2018-19	13,540	56,868	24950	77991
2019-20	17,000	57,371	26230	58153
2020-21	16,300	54,446	NA	NA

Table 2.7 Country-wise export of pepper from India

(Quantity: tonnes, Value: Rs in lakhs)

Country	2014-15		2015-16		2016-17		2017-18		2018-19		2019-20	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
U.S.A	9683.99	54465.30	10740.47	65961.15	8128.17	52679.79	6376.17	31094.09	5465.19	21040.13	6670.23	19872.93
U.K	2098.21	11765.76	2122.38	14599.25	1868.25	11738.01	2250.05	8978.34	1375.34	5670.22	1573.91	4956.10
Germany	1584.90	9468.09	1961.90	11375.07	972.30	7905.81	916.57	6715.63	775.31	4277.92	675.52	3576.87
Sweden	880.62	6452.33	627.25	4577.97	1034.10	7804.79	833.57	5018.92	737.14	3400.09	1152.04	4620.75
Japan	617.98	4737.60	697.47	5086.22	746.71	5418.25	484.20	2938.61	712.53	3195.38	643.22	2630.26
Canada	458.11	2454.74	581.95	3621.98	361.46	2306.33	731.41	3564.57	629.93	3168.15	616.37	2565.65
Thailand			1.02	7.17	0.10	0.95	25.30	47.88	636.78	1825.65	627.32	1658.65
Italy	263.69	1354.77	549.57	3274.78	271.54	1344.85	351.94	1326.20	381.32	1570.01	592.78	1403.25
France	167.56	1412.17	330.82	2579.75	516.77	2547.79	486.01	2098.45	260.24	1492.21	276.32	1714.54
Netherlands	1201.61	5952.47	1171.44	7592.08	264.28	1906.06	371.69	2249.02	257.58	1461.87	255.82	1500.73
Australia	362.50	2236.15	465.10	3264.00	301.16	1812.05	453.82	2140.14	436.97	1400.74	673.64	1864.18
Total (Incl. Others)	21450.00	120842.16	28100.00	173041.50	17600.00	114312.60	16840.00	82078.48	13540.00	56868.00	17000.00	57370.94

Table 2.8 Monthly average price of pepper in major markets

Kochi- Malabar Garbled 1

(Price: Rs/quintal)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	59273	70596	60274	38754	35287	33023
May	61917	72421	53560	38450	36657	32764
June	65048	71819	51452	37754	36650	33400
July	65708	72225	50320	35246	35511	32468
August	65921	72185	49968	37952	35472	33533
September	66438	72048	46620	40073	34665	34462
October	67139	71085	44700	39345	33164	34164
November	70891	69045	42891	39436	33907	34800
December	68196	70069	43492	38696	35400	35376
January	65480	68248	43880	37138	34314	34611
February	64521	62674	41761	36358	33337	34667
March	65736	61310	39556	34652	32126	37504
Mean	65522	69477	47373	37821	34708	34231

Kozhikode - Wayanadan

(Price: Rs/quintal)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	56625	67600	53800	37625	31750	31750
May	59900	70000	48500	37625	33666	32000
June	62375	68875	47300	36250	33375	31750
July	63500	68875	47000	31688	32750	31500
August	63250	68700	45625	35100	32840	NT
September	63666	68125	40375	37188	32000	32000
October	65600	67300	40000	36375	30750	
November	70375	66750	38375	36000	31500	
December	66750	63125	40625	35166	32500	
January	63000	61500	41267	33166	32000	
February	62500	53625	40250	32750	32750	
March	64125	56600	38200	31400	31400	
Mean	63472	65090	43443	35028	32273	31800

Table 2.9 Farm wholesale price of black pepper in Kerala

Price (Rs/quintal)

Month	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
July	36799	69830	60428	67382	46343	31314
August	38424	68221	61164	67335	46311	33920
September	39128	62041	61228	67041	41854	35033
October	42063	64539	63261	66160	41040	35394
November	47926	66903	66698	63556	38326	35333
December	49065	65294	62239	63609	41522	35210
January	48252	59763	60401	61355	39557	33390
February	48945	56012	60002	56468	38470	32230
March	49964	52306	61479	57005	36681	31643
April	61418	54337	66244	54203	35491	31189
May	67450	56859	67283	48961	34992	32055
June	66173	59578	66945	47754	33528	31951
Mean	49634	61307	63114	60069	39510	33222

Table 2.10 (a) Value of output of black pepper, Statewise at 2011-12 prices

Rs in lakhs

State/UT	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Arunachal Pradesh	17480	18400	21864	21546	27616	3872	3872
Assam	7328	7765	8568	2833	8491	3749	3805
Goa	316	312	316	329	348	381	437
Karnataka	8681	8685	9809	27096	27100	37805	38375
Kerala	111174	135491	86062	119079	123299	99691	111075
Maharashtra					441	485	529
Meghalaya	670	2174	925	958	1002	1033	1046
Nagaland	7	4	8	11	11	11	11
Tamil Nadu	1293	1356	1296	1353	1467	1620	1731
Tripura	1683	0	211	211	211	211	423
West Bengal	143	172	172	172	172	201	230
Andaman & Nicobar Islands	83	338	208	221	139	130	910
Puducherry	10	12	35	33	35	35	37
Total	148868	174709	129474	173842	190332	149224	162481

Table 2.10 (b) Value of output of black pepper, Statewise at current prices

Rs in lakhs

State/UT	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Arunachal Pradesh	17480	23407	30063	24239	31085	4432	3751
Assam	7328	7765	8568	3737	11207	5001	5076
Goa	316	809	1521	1952	2064	2256	2592
Karnataka	8681	15880	29054	80025	106304	132437	90521
Kerala	111174	172440	122975	262753	260288	220403	166469
Maharashtra					521	854	935
Meghalaya	670	2189	936	974	1069	1118	1162
Nagaland	7	4	9	13	14	14	15
Tamil Nadu	1293	3506	3194	6071	6534	7686	8074
Tripura	1683	0	219	292	342	348	1920
West Bengal	143	211	271	378	371	437	404
Andaman & Nicobar Islands	83	338	208	306	221	210	1243
Puducherry	10	15	82	131	158	162	171
Total	148868	226564	197100	380871	420178	375358	282333

Table 2.11 Countrywise area, production and productivity of pepper in the world 2016 to 2020

Area in ha, Production in tonnes, Yield in kg/ha

Country	2016			2017			2018			2019			2020		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Brazil	25660	41600	1621	27730	65000	2344	30503	72000	2360	31000	80000	2581	27850	78000	2801
India	131756	73355	557	134281	62080	462	139487	71488	513	244560	137360	562	259148	104071	402
Indonesia	117000	77000	658	117500	75000	638	117500	70000	596	118200	78000	660	116375	78000	670
Malaysia	16700	23000	1377	17000	23500	1382	17437	31073	1782	17477	24000	1373	17437	24000	1376
Sri Lanka	34997	18485	528	36221	29545	816	40241	20135	500	41000	19360	472	40241	21800	542
Vietnam	105000	170000	1619	110000	200000	1818	100011	205000	2050	115000	280000	2435	113142	250000	2210
China, P.R	20000	29000	1450	20000	26000	1300	20000	35000	1750	21000	32000	1524	20000	33000	1650
Madagascar	4000	5000	1250	4000	5000	1250	4000	4000	1000	4000	4000	1000	4000	4000	1000
Thailand	500	3500	7000	500	4000	8000	500	5000	10000	614	5000	8143	500	5000	10000
Combdia	6100	11800	1934	6700	20000	2985	7471	20551	2751	7471	16586	2220	7471	18000	2409
Ecuador & Others	2800	3700	1321	2800	5000	1786	2800	6000	2143	2800	5000	1786	2800	5000	1786
Total	464513	456440	983	476732	515125	1081	479950	540247	1126	603122	681306	1130	608964	620871	1020

Table 2.12 World area, production and productivity of pepper for the last twenty years

Year	Area (ha)	Production (tonnes)	Productivity (kg/ha)
2001	522946	320303	612
2002	536434	358270	668
2003	577630	371274	643
2004	571117	357719	626
2005	507603	363188	715
2006	526829	342300	650
2007	492915	327546	665
2008	456997	319913	700
2009	442463	352257	796
2010	442351	345041	780
2011	453596	334621	738
2012	464808	355324	764
2013	468297	379300	810
2014	471300	359403	763
2015	443420	411624	928
2016	464513	456440	983
2017	476732	515125	1081
2018	479950	540247	1126
2019	603122	681306	1130
2020	608964	620871	1020

Table 2.13 Production of black pepper by Country

Production in tonnes

Country	2014	2015	2016	2017	2018	2019
Brazil	37500	42000	40000	62000	68500	76000
India	40864	64447	73355	62080	71448	136794
Indonesia	27000	49000	42000	33000	28000	30000
Malaysia	16500	17000	17200	17500	23954	17872
Sri Lanka	14029	28027	18335	29145	19935	19110
Vietnam	128760	105000	150000	175000	180000	257000
China, P.R	1000	1000	1000	1000	2000	2000
Thailand	6000	5500	5500	5000	5000	5000
Madagascar	4000	4000	3500	4000	4000	4000
Combodia	7500	9800	11800	20000	20551	16586
Ecuador & others	2500	2200	3700	5000	6000	5000
Total	285653	327974	366390	413725	429388	569362

Table 2.14 Production of white pepper by Country

Production in tonnes

COUNTRY	2014	2015	2016	2017	2018	2019
Brazil	1500	2000	1600	3000	3500	4000
India	1000	1000	1000	1500	2000	1500
Indonesia	25000	31000	35000	42000	42000	48000
Malaysia	4000	5500	5800	6000	7119	6128
Srilanka	110	150	150	400	200	250
Vietnam	20000	17000	20000	25000	25000	23000
China,P.R	27000	28000	28000	25000	33000	30000
TOTAL	78610	84650	91550	102900	112819	112878

Table 2.15 Total export of pepper from producing countries 2014 to 2020

Quantity in Metric Tons

COUNTRY	2014	2015	2016	2017	2018	2019	2020
Brazil	34,169	38,034	31,100	59,500	72,580	84,676	89756
India	20,400	28,520	23,850	18,250	16,724	13540	15924
Indonesia	34,732	58,075	53,100	42,687	47,613	51772	51718
Malaysia	13,429	13,624	12,116	12,184	11,779	9820	7540
SriLanka	8,031	16,660	7,875	13,313	13,118	7813	6700
Vietnam	156,396	133,650	179,233	215,000	235,889	287,003	285292
China, PR.	1,042	1,707	1,425	1,300	2,522	1000	1207
Thailand	251	291	322	278	418	200	609
Madagascar	2,105	1,931	2,026	1,983	3,314	2000	3193
Cambodia	7,400	8,600	10,500	16,800	18,000	17000	18000
Ecuador& Others	1,100	1,400	2,400	4,200	4,434	4000	4500
TOTAL	279,055	302,492	323,947	385,495	426,391	478824	484439

Table 2.16 Export of black pepper from producing countries 2014 to 2019

Quantity in Metric Tons

COUNTRY	2014	2015	2016	2017	2018	2019
Brazil	31,934	35,546	29,600	57,250	69,677	81,289
India	19,430	27,110	22,800	17,300	13,990	4,630
Indonesia	19,495	37,869	33,100	19,483	19,183	21,563
Malaysia	12,086	11,281	9,781	10,061	10,361	7,886
Sri Lanka	7,929	16,550	7,743	13,210	12,988	6,667
Vietnam	140,067	116,300	156,233	187,500	209,204	257,396
Thailand	251	291	322	278	418	537
Madagascar	2,105	1,931	2,026	1,983	3,314	3,695
Cambodia	7,400	8,600	10,500	16,800	18,000	18,200
Ecuador & Others	1,100	1,400	2,400	4,200	4,434	4,374
T O T A L	241,797	256,878	274,505	328,065	361,569	406,237

Table 2.17 Export of white pepper from producing countries 2014 to 2019

Quantity in Metric Tons

COUNTRY	2014	2015	2016	2017	2018	2019
Brazil	2,235	2,488	1,500	2,250	2,903	3,387
India	970	1,410	1,050	950	2,734	3,185
Indonesia	15,237	20,206	20,000	23,204	28,430	30,208
Malaysia	1,343	2,343	2,335	2,123	1,418	1,972
Sri Lanka	102	110	132	103	130	148
Vietnam	16,329	17,350	23,000	27,500	26,685	29,607
China	1,042	1,707	1,425	1,300	2,522	2,681
T O T A L	37,258	45,614	49,442	57,430	64,822	71,188

Table 2.18 Export earnings from pepper by producing countries

Value in '000 US \$

COUNTRY	2014	2015	2016	2017	2018	2019
Brazil	295,029	347,685	246,953	274,437	195,077	179,600
India	175,980	274,077	156,735	122,060	89,957	77,759
Indonesia	323,802	548,190	433,132	241,917	152,462	147,343
Malaysia	124,829	133,042	119,027	72,393	50,133	35,262
Sri Lanka	69,136	143,618	72,293	83,758	73,892	46,275
Vietnam	1,210,172	1,276,749	1,437,419	1,119,729	774,715	721,154
China, P.R.	10,466	17,242	15,836	14,890	19,942	14,970
Thailand	2,232	1,490	1,631	1,672	3,953	4,813
Madagascar	11,230	11,717	9,904	6,924	9,244	7,099
Cambodia	61,000	81,000	86,000	86,000	77,400	53,974
Ecuador & Others	5,300	10,500	17,200	14,800	11,687	10,229
TOTAL	2,289,176	2,845,310	2,596,131	2,858,088	1,458,462	1,298,478

Note : Excluding earning from export of pepper oil and oleoresin

Table 2.19 Export of whole pepper from Producing Countries

Quantity in Metric Tons

COUNTRY	2014	2015	2016	2017	2018	2019
Brazil	34,172	37,899	30,882	59,245	72,458	84,607
India	13,750	24,001	11,812	8,127	8,702	8,509
Indonesia	33,348	56,345	51,759	41,647	46,502	50,361
Malaysia	12,372	12,724	10,948	10,484	10,127	8,537
SriLanka	6,894	15,292	6,454	12,446	12,046	6,815
Vietnam	135,265	115,839	157,565	189,376	207,934	255,433
China	480	1,002	605	563	1,606	1,544
Thailand	69	168	212	108	71	304
Madagascar	2,034	1,929	1,987	1,889	2,986	3,638
Cambodia	7,400	8,600	10,500	16,800	18,000	18,200
Ecuador & Others	1,071	1,394	2,393	4,191	4,415	4,359
TOTAL	246,855	275,193	285,117	344,876	384,847	442,307

Table 2.20 Export of ground pepper from producing countries

Quantity in Metric Tons

COUNTRY	2014	2015	2016	2017	2018	2019
Brazil	97	135	203	256	122	68
India	6,650	8,399	6,230	5,610	8,019	11,079
Indonesia	1,385	1,730	1,341	1,041	1,111	1,410
Malaysia	1,262	1,187	1,601	1,700	1,652	1,321
Sri Lanka	1,035	1,365	1,421	867	1,072	998
Vietnam	19,772	15,705	20,569	25,824	27,955	31,570
China	561	705	815	749	916	1,137
Thailand	179	123	110	170	347	233
Madagascar	115	3	40	94	328	57
Ecuador & others	29	6	7	9	19	15
T O T A L	31,085	29,358	32,337	36,320	41,541	47,888

Table 2.21 Import of pepper by producing countries, Quantity & Value

Quantity (MT), Value ('000 US \$)

Country	2015		2016		2017		2018		2019	
	Qty	Value	Qty	Value	Qty	Value	Qty	Value	Qty	Value
WHOLE PEPPER										
Brazil	44	779	176	1,472	41	821	70	515	85	445
India	21,433	195,259	23,454	183,172	30,328	164,898	25,926	136,105	29,269	92,991
Indonesia	1,326	12,485	2,722	22,945	712	3,801	776	3,189	552	1,633
Malaysia	2,213	22,369	2,327	26,082	1,988	12,464	2,030	7,972	2,582	8,056
Sri Lanka	51	467	459	4,651	1,093	6,398	3,173	11,795	142	470
Vietnam	22,192	206,107	14,244	111,271	15,000	84,000	35,342	87,820	42,893	81,794
China	4,014	41,461	4,021	39,940	3,212	20,747	5,270	23,256	11,962	38,362
Thailand	2,136	24,273	2,513	24,103	2,696	18,050	3,109	13,793	4,191	14,535
Madagascar	6	52	22	57	4	56		2	1	4
Ecuador	160	555	144	391	104	304	129	357	139	410
Sub Total	53,575	503,807	50,082	414,084	55,178	311,539	75,825	284,804	91,816	238,700
GROUND PEPPER										
Brazil	292	1,674	284	1,641	323	1,759	192	723	144	492
India	27	115	30	371	104	607	86	731	88	520
Indonesia	33	333	37	391	50	422	70	520	120	455
Malaysia	832	7,172	1,151	9,370	1,432	6,775	838	4,297	680	3,696
Sri Lanka	29	40	1	15	305	1,675	6	28	10	21
Vietnam	115	1,172	148	1,391	150	975	138	730	336	1,010
China	473	5,064	467	4,912	638	5,041	603	4,224	811	4,263
Thailand	784	10,572	868	11,703	1,125	12,019	1,655	12,607	1,509	8,686
Madagascar	1	11	1	11	3	17	1	12	3	22
Ecuador	5	72	2	14	4	32	6	48	13	97
Sub Total	2,591	26,225	2,989	29,819	4,134	29,322	3,595	23,920	3,714	19,262
PEPPER (Total)										
Brazil	336	2,453	460	3,113	364	2,580	262	1,238	229	937
India	21,460	195,374	23,484	183,543	30,432	165,505	26,012	136,836	29,357	93,511
Indonesia		12,818	2,759	23,336	762	4,223	846	3,709	672	2,088
Malaysia	2299	29,541	3,478	35,452	3,420	19,239	2,868	12,269	3,262	11,752
Sri Lanka	80	507	460	4,666	1,398	8,073	3,179	11,823	152	491
Vietnam	22,307	207,279	14,392	112,662	15,150	84,975	35,480	88,550	43,229	82,804
China	4,487	46,525	4,488	44,852	3,850	25,788	5,873	27,480	12,773	42,625
Thailand	2,920	34,845	3,381	35,806	3,821	30,069	4,764	26,400	5,700	23,221
Madagascar	7	63	23	68	7	73	1	14	4	26
Ecuador	165	627	146	405	108	336	135	405	152	507
Total	56,166	530,032	53,071	443,903	59,312	340,861	79,420	308,724	95,530	257,962

Table 2.22 Import of pepper by consuming countries 2015 to 2019

COUNTRY	2015		2016		2017		2018		2019	
	Qty (MT)	Value (US \$ '000)	Qty (MT)	Value (US \$ '000)	Qty (MT)	Value (US \$ '000)	Qty (MT)	Value (US \$ '000)	Qty (MT)	Value (US \$ '000)
USA	80,359	751,646	75,009	634,040	78,272	486,143	74,923	304,979	84,312	269,344
Gemany	29,260	289,679	29,706	273,504	32,299	212,322	30,562	124,396	33,548	109,339
Egypt	7,287	64,626	5,469	55,412	7,123	56,720	6,870	37,978	13,783	46,372
Pakistan	7,119	20,911	10,161	41,622	8,932	37,403	8,239	30,184	11,287	26,629
Netherlands	13,563	134,738	12,521	117,757	13,151	92,931	10,770	50,647	15,196	57,347
Russia	6,922	21,338	7,699	26,465	8,205	36,477	8,048	26,285	10,306	25,482
France	10,226	103,094	11,508	110,736	10,811	82,173	11,371	57,828	11,263	47,262
Poland	5,819	52,483	6,036	52,912	5,905	40,494	7,253	33,839	8,484	28,342
Korea,South	5,397	53,676	5,470	47,769	6,152	39,541	5,607	23,091	6,567	21,082
Turkey	3,127	5,658	4,186	7,831	6,288	15,088	3,678	7,313	6,248	11,362
Japan	9,068	115,818	8,741	106,039	8,194	73,601	9,489	55,230	9,714	45,063
Philippines	3,978	20,972	4,393	20,258	5,444	20,109	5,794	19,049	6,441	19,159
Spain	11,214	83,960	10,387	82,214	9,848	57,089	5,276	21,268	6,077	18,819
UK	13,146	124,989	15,087	113,904	13,725	96,821	12,100	68,513	13,100	60,973
Saudi Arabia	8,890	32,158	10,639	29,132	10,597	27,088	7,688	17,364	9,405	18,078
Taiwan	2,974	24,293	2,980	24,832	3,315	21,983	3,354	15,115	4,406	15,894
UAE	18,364	119,569	14,970	84,399	14,000	68,000	14,689	37,398	3,996	8,654
Italy	4,321	44,421	4,533	41,173	4,809	33,204	4,477	23,279	4,509	17,941
Canada	6,285	66,422	6,338	63,714	7,120	60,390	7,064	44,891	7,385	39,066
Austria	3,178	34,516	2,849	28,785	3,817	28,053	3,565	18,199	3,748	15,305
South Africa	4,063	37,308	3,780	32,786	4,995	25,576	3,730	17,434	4,297	14,894
Singapore	20,177	201,793	6,452	60,572	5,583	34,216	5,781	22,514	2,753	9,323
Australia	3,321	32,779	3,689	36,058	4,012	27,586	3,828	21,096	3,580	17,718
Sweden	1,860	22,519	1,955	22,340	1,824	19,774	2,069	15,728	2,226	13,492
Greece	1,392	11,148	1,321	10,268	1,471	8,359	1,493	5,487	1,301	4,279
Czech	1,272	13,342	1,302	12,824	1,476	15,489	1,295	9,106	1,435	7,232
Romania	1,555	13,699	2,032	16,423	1,970	12,651	2,043	10,307	2,182	8,294
Kazakhstan		3,513	804	2,651	1,004	3,037	1,032	2,981	1,346	3,248
Chile	0	2,327	294	2,910	323	2,772	516	2,629	1,738	1,849
Belgium	2,817	24,096	2,815	25,301	2,884	23,874	2,229	16,393	1,695	12,412
Hungary	997	8,414	1,122	9,333	1,110	7,973	1,079	5,976	1,067	4,535
Bulgaria	874	5,126	737	4,635	857	3,087	885	2,618	644	1,698
Switzerland	894	11,591	859	11,218	863	9,790	932	8,283	1,004	7,260
Hong Kong,China	1,173	9,647	1,141	9,812	1,167	7,385	1,296	6,069	1,314	5,898
Ireland	1,019	6,687	895	7,454	1,049	7,663	1,334	7,991	1,324	8,821
Estonia	551	6,428	655	6,681	665	7,396	579	4,871	614	3,837
Croatia	563	5,146	552	4,981	478	4,271	643	3,380	669	2,744
Denmark	976	11,249	1,152	13,420	1,123	12,368	1,078	10,529	1,029	8,658
New Zealand	712	4,854	757	4,619	596	4,043	571	4,064	828	3,703
Slovakia	749	2,456	611	2,036	743	3,168	525	3,756	443	2,450
Portugal	472	2,986	474	3,408	471	3,053	538	4,503	516	4,146
Norway	480	6,435	448	6,585	493	7,020	472	5,210	498	4,341
Bosniaand Herzegovina	162	1,350	190	1,501	208	1,352	206	1,094	261	1,050
Oman	784	1,568	754	1,007	791	956	652	1,750	91	290
CostaRica	355	2,688	478	3,245	389	2,804	354	2,275	310	1,636
Mexico	2,672	26,811	3,156	27,069	5,022	27,527	5,002	19,382		13,678
Others	19,393	120,017	32,493	228,765	34,176	205,680	50,320	159,004	33,878	96,393
Total	321,034	2,760,944	319,600	2,530,400	333,750	2,074,500	331,299	1,391,276	336,818	1,165,392

Table 2.23 Estimate of consumption of pepper in producing countries

Quantity in tonnes

Country	2014	2015	2016	2017	2018	2019	2020
Brazil	6000	6000	6300	6200	6750	6750	6500
India	47000	50000	50000	55000	56500	57000	57500
Indonesia	20000	23500	24000	29000	29500	29750	29750
Malaysia	12000	10000	10250	10550	10850	11150	11450
Sri Lanka	8123	10926	11889	9503	11005	11205	11505
Vietnam	6500	6500	6500	7250	6700	7000	8000
China, P.R	34000	31000	32000	67000	75000	76000	80000
Thailand	8000	8250	8500	8500	8500	8500	8500
Madagascar	2000	2000	2000	2000	2000	2000	2000
Cambodia	1000	1000	1000	1000	1000	1000	1000
Ecuador	1000	1000	1000	1000	1000	1000	1000
Total	145623	150176	153439	197003	208805	211355	217205

Table 2.24 Spot price of black pepper in Newyork market

Spot Price in US\$/MT

MONTH	2014	2015	2016	2017	2018	2019
January	8653	10943	9756	7745	4520	3418
February	8325	11014	9343	7416	4355	3271
March	8243	11025	8765	6725	4300	3170
April	8556	10497	8490	6329	3948	3087
May	9013	10305	8985	6093	3888	3060
June	9150	10860	9535	5374	3640	2977
July	10186	11333	9392	5048	3530	2977
August	10888	10860	9040	5428	3257	2977
September	11190	10805	8600	5345	3045	2936
October	11223	10497	8248	5070	3270	2826
November	10943	10310	7775	4768	3418	2836
December	11025	10189	7852	4784	3391	2906
AVERAGE	9783	10720	8815	5844	3714	3037

Table 2.25 Spot price of white pepper in Newyork market

Spot Price in US\$/MT

MONTH	2014	2015	2016	2017	2018	2019
January	12405	14885	14885	11690	7390	5219
February	12543	15023	14885	11690	6838	5072
March	12680	15435	14608	10585	6368	5073
April	13032	15435	14330	10585	6285	5072
May	13120	15435	14330	9903	6285	5072
June	13120	15988	14110	9015	6065	5072
July	14266	16496	14110	8292	6065	5072
August	14830	16100	13230	8573	6065	5072
September	15325	16100	12130	8655	6065	5045
October	15435	15392	12130	8578	6065	5043
November	15435	15215	11910	8160	5678	4998
December	15435	15017	11690	7500	5295	4963
AVERAGE	13969	15543	13529	9436	6205	5064

3. Ginger

Table 3.1 Trend in area, production and productivity of ginger for the last twenty years

Year	Area ('000 ha)	Production ('000 tonnes)	Productivity (kg/ha)
2001-02	103.704	390.468	3765
2002-03	101.690	353.352	3475
2003-04	99.636	383.682	3851
2004-05	112.559	466.915	4148
2005-06	127.793	497.545	3893
2006-07	125.574	498.627	3971
2007-08	119.597	489.021	4089
2008-09	139.041	610.377	4390
2009-10	156.049	687.869	4408
2010-11	163.161	766.202	4696
2011-12	148.943	716.573	4811
2012-13	136.867	713.785	5215
2013-14	147.970	1031.269	6969
2014-15	163.189	1222.956	7494
2015-16	158.689	1107.389	6978
2016-17	171.731	1830.590	10660
2017-18	165.275	1761.552	10658
2018-19	167.389	1851.088	11059
2019-20	178.135	1868.435	10489
2020-21	176.348	1886.533	10698

Table 3.2 (a) State-wise area, production and productivity of ginger in India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	0.358	1.369	3824	0.427	1.221	2859	0.363	0.958	2639	0.509	8.231	16170
Arunachal Pradesh	7.000	57.000	8143	7.100	60.000	8451	7.650	56.575	7395	8.500	70.000	8235
Assam	15.683	122.307	7799	18.197	159.951	8790	16.306	141.441	8674	17.632	156.662	8885
Bihar	0.479	0.910	1900	0.302	0.574	1901	0.316	0.591	1870	0.379	3.241	8552
Chhattisgarh	1.805	1.990	1102	1.757	2.188	1245	1.970	2.392	1214	1.837	10.263	5587
Gujarat	5.868	118.229	20148	5.343	116.948	21888	4.679	102.577	21923	4.651	102.849	22113
Haryana	0.445	5.653	12703	0.445	5.653	12703	0.445	5.653	12703	0.500	6.000	12000
Himachal Pradesh	2.193	15.042	6859	2.144	14.713	6862	2.276	15.390	6762	2.276	14.500	6371
Jammu & Kashmir	0.035	0.045	1289	0.021	0.029	1376	0.023	0.047	2026	0.023	0.047	2026
Karnataka	18.957	52.405	2764	30.787	89.435	2905	29.285	109.340	3734	23.088	271.493	11759
Kerala	4.538	21.521	4742	4.800	22.989	4789	4.986	22.044	4421	5.151	95.223	18486
Madhya Pradesh	10.685	20.641	1932	10.912	18.861	1728	11.082	18.861	1702	23.153	372.638	16095
Maharashtra	11.723	201.740	17209	12.066	214.460	17774	8.526	125.488	14718	9.336	137.329	14710
Manipur	2.400	3.840	1600	2.400	3.840	1600	2.400	3.840	1600	2.400	17.280	7200
Meghalaya	9.642	62.994	6533	9.833	65.166	6627	9.911	65.979	6657	10.349	73.292	7082
Mizoram	7.480	29.920	4000	7.650	31.200	4078	8.067	31.682	3927	8.553	62.744	7336
Nagaland	3.520	52.800	15000	3.529	52.388	14845	4.535	43.688	9634	4.863	48.504	9974
Orissa	16.965	133.714	7882	16.915	132.627	7841	16.565	127.783	7714	16.568	127.946	7722
Rajasthan	0.123	0.246	2000	0.120	0.230	1917	0.130	0.289	2223	0.110	0.266	2418
Sikkim	9.300	52.110	5603	9.580	52.530	5483	10.030	54.990	5483	12.300	55.900	4545
Tamil Nadu	0.304	2.117	6964	0.311	1.316	4232	0.390	3.448	8841	0.371	8.137	21933
Telangana	1.771	12.729	7187	2.186	16.540	7566	1.828	11.901	6510	2.017	14.089	6985
Tripura	1.800	7.599	4222	1.800	7.599	4222	1.800	7.599	4222	2.042	17.410	8526
Uttar Pradesh	0.826	3.998	4840	0.904	4.354	4816	0.944	4.354	4612	0.916	3.756	4100
Uttarakhand	2.355	23.440	9953	1.635	18.446	11282	2.074	19.551	9427	2.047	20.529	10029
West Bengal	11.500	25.000	2174	11.810	127.788	10820	11.893	129.018	10848	11.990	130.400	10876
Andaman & Nicobar	0.215	1.910	8884	0.215	1.910	8884	0.215	1.910	8884	0.170	1.863	10975
Total	147.970	1031.269	6969	163.189	1222.956	7494	158.689	1107.389	6978	171.731	1830.590	10660

Table 3.2 (b) State-wise area, production and productivity of ginger in India 2017-18 to 2020-21

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2020-21(3rd Adv.Fst.)		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	0.381	1.437	3771	0.296	2.492	8419	0.294	2.944	10014	0.459	3.870	8431
Arunachal Pradesh	3.936	23.571	5989	4.001	23.766	5940	4.001	23.766	5940	3.278	13.384	4083
Assam	18.105	161.604	8926	17.865	166.272	9307	19.351	183.157	9465	19.451	185.951	9560
Bihar	0.259	2.269	8761	0.452	3.897	8621	0.381	3.283	8617	0.368	3.172	8627
Chhattisgarh	1.933	10.955	5668	1.886	10.574	5607	2.064	8.723	4226	1.930	10.129	5248
Gujarat	4.870	108.249	22228	5.037	110.401	21918	5.038	113.224	22474	4.800	105.207	21918
Haryana	0.592	4.468	7547	0.092	0.720	7826	0.074	0.623	8419	0.315	2.953	9389
Himachal Pradesh	2.505	15.947	6366	2.223	10.359	4660	2.264	10.675	4715	2.266	10.688	4717
Jammu & Kashmir	0.025	0.029	1156	0.027	0.054	2000	0.019	0.037	1953	0.028	0.527	18821
Karnataka	20.809	249.916	12010	15.858	244.065	15391	22.388	234.171	10460	20.536	249.911	12170
Kerala	4.370	86.270	19741	3.275	70.327	21474	2.819	55.414	19657	2.752	55.014	19991
Madhya Pradesh	23.431	377.471	16110	24.964	414.282	16595	27.480	438.394	15953	28.526	461.893	16192
Maharashtra	9.595	140.663	14660	8.101	115.510	14259	7.835	113.144	14441	9.480	131.528	13909
Manipur	2.400	17.856	7440	5.493	79.647	14500	5.470	77.809	14225	3.941	48.148	12218
Meghalaya	9.944	66.195	6657	9.953	66.273	6659	9.939	66.156	6656	9.940	66.176	6658
Mizoram	8.553	60.131	7030	8.553	60.130	7030	8.553	61.001	7132	8.553	60.131	7030
Nagaland	4.871	48.654	9989	4.749	35.630	7503	4.790	35.964	7508	4.694	35.303	7521
Orissa	16.575	128.020	7724	16.575	128.020	7724	16.575	128.020	7724	16.573	128.002	7723
Rajasthan	0.113	0.269	2381	0.138	0.461	3341	0.107	0.373	3486	0.094	0.319	2925
Sikkim	12.300	55.900	4545	15.638	85.116	5443	15.643	85.152	5443	15.220	81.496	5048
Tamil Nadu	0.380	7.425	19539	0.377	7.279	19308	0.193	3.038	15741	0.645	11.015	17078
Telangana	1.840	12.982	7055	1.623	11.221	6914	2.409	15.903	6601	1.972	13.549	6870
Tripura	1.876	15.743	8392	1.855	15.601	8410	1.875	15.938	8500	1.897	16.126	8501
Uttar Pradesh	0.877	4.167	4751	0.904	4.294	4750	0.880	4.620	5250	0.900	4.128	4585
Uttarakhand	2.325	25.711	11058	4.911	48.468	9869	5.061	49.689	9817	5.094	50.683	9950
West Bengal	12.250	133.750	10918	12.418	135.591	10919	12.510	136.610	10920	12.522	136.740	10920
Andaman & Nicobar	0.160	1.900	11875	0.126	0.637	5061	0.122	0.607	4994	0.113	0.491	4352
Total	165.275	1761.552	10658	167.389	1,851.088	11059	178.135	1,868.435	10489	176.348	1,886.533	10698

* From 2016-17 onwards production estimates of all the States are expressed in terms of fresh

Table 3.3 District-wise area, production and productivity of ginger (dry) in Kerala 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Thiruvananthapuram	95	346	3642	89	1214	13637	73	1018	13945	72	997	13824	62	828	13350
Kollam	318	743	2336	350	3357	9592	322	3325	10326	327	3975	12141	305	3706	12151
Pathanamthitta	295	928	3146	317	4617	14566	301	6216	20651	281	5369	19124	271	6198	22873
Alappuzha	81	291	3593	79	1204	15245	79	1363	17253	55	613	11095	75	1316	17546
Kottayam	111	359	3234	122	1776	14560	120	1775	14792	116	1768	15277	113	1707	15102
Idukki	540	2948	5459	553	12550	22695	552	13394	24264	489	11021	22528	481	12602	26199
Ernakulam	98	283	2888	101	1293	12799	105	1344	12800	78	949	12234	81	967	11941
Thrissur	50	130	2600	48	591	12303	55	755	13727	43	553	12866	36	432	12013
Palakkad	1106	5526	4996	1158	22906	19781	429	8566	19967	193	3450	17863	160	3292	20576
Malappuram	53	117	2208	50	535	10695	41	525	12805	32	337	10574	26	307	11804
Kozhikode	42	135	3214	62	665	10725	78	1327	17013	59	898	15162	37	558	15081
Wayanad	2125	9959	4687	2156	43491	20172	2109	44461	21082	1456	39061	26824	1111	22292	20065
Kannur	57	223	3912	53	856	16143	73	1591	21795	51	941	18336	43	874	20330
Kasaragod	15	56	3733	13	167	12877	33	610	18485	22	395	17666	18	335	18600
State	4986	22044	4421	5151	95223	18486	4370	86270	19741	3275	70327	21473	2819	55414	19657

In 2015-16 production is expressed in terms of dry and from 2016-17 onwards production is expressed in terms of fresh

Table 3.4 District-wise area, production and productivity of ginger in Karnataka 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Bagalkote	54	202	3733	22	259	11752	8	96	12032	6	92	15383	4	42	10450
Bangalore urban	14	52	3736	4	47	11741	6	72	12013	11	169	15391	48	502	10458
Bangalore rural	42	157	3733	41	482	11761	41	492	12011	111	1708	15390	179	1872	10459
Belgaum	0	0		2	24	11858	5	60	11997	2	31	15400	7	73	10457
Bellary	1	4	3700	0	0		1	12	12090	4	62	15400	12	126	10458
Bidar	779	1251	1606	1690	14331	8480	510	6125	12011	1731	26641	15391	1360	18908	13903
Bijapur	0	0		0	0		0	0		6	92	15383	13	136	10462
Chamarajanagar	85	317	3733	95	1117	11757	174	2090	12010	104	1601	15390	96	1004	10459
Chickballapur	17	64	3735	10	118	11765	37	445	12015	16	246	15388	36	377	10458
Chikmagalore	741	2766	3733	613	7207	11757	653	7575	11601	442	7244	16388	635	6747	10625
Chitradurga	0	0		2	24	11858	1	12	12090	9	139	15389	32	335	10459
Dakshin Kannada	234	874	3733	195	2292	11756	94	1129	12011	1	15	15400			
Davangere	179	668	3734	7	82	11758	174	2090	12010	54	831	15391	81	847	10459
Dharwad	1	4	3700	0	0		0	0		6	92	15383	6	63	10467
Gadag	2	8	3750	2	24	11858	0	0		3	46	15400	19	199	10458
Gulbarga	0	0		0	0		246	2955	12011	31	477	15390	26	272	10458
Hassan	15122	58012	3836	8943	105805	11831	7564	101747	13451	4087	68784	16830	4546	41770	9188
Haveri	1182	4413	3733	1018	11969	11757	974	9327	9575	1102	20135	18271	1521	20026	13166
Kodagu	1522	5054	3320	1645	25361	15417	1645	22559	13714	140	974	6956	1354	14162	10459
Kolar	0	0		0	0		0	0		13	200	15392	10	105	10460
Koppal	24	90	3733	0	0		0	0		1	15	15400	4	42	10450
Mandya	32	120	3734	83	976	11759	18	216	12013	89	1370	15391	226	2364	10459
Mysore	2812	11105	3949	2749	49102	17862	2708	36127	13341	3372	44690	13253	7385	79282	10736
Raichur	0	0		0	0		0	0		2	31	15400	6	63	10467
Ramanagaram	20	75	3735	7	82	11758	33	396	12005	11	169	15391	42	439	10460
Shimoga	6061	22760	3755	5573	47642	8549	5525	51682	9354	4131	62470	15122	4212	38897	9235
Tumkur	14	52	3736	21	247	11758	17	204	12008	38	585	15389	68	711	10459
Udupi	49	183	3733	47	552	11754	47	565	12011	2	31	15400	1	11	10500
Uttara Kannada	298	1113	3733	319	3751	11758	328	3939	12011	333	5125	15390	456	4770	10459
Yadgir	0			0	0		0	0		0	0		3	31	10467
Total	29285	109340	3734	23088	271493	11759	20809	249916	12010	15858	244065	15391	22388	234171	10460

In 2015-16 production is expressed in terms of dry and from 2016-17 onwards production is expressed in terms of fresh

Table 3.5 District-wise area, production and productivity of ginger in Meghalaya 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Ri Bhoi	1027	10962	10674	1068	12518	11721	1030	10975	10655	1031	10986	10656	1030	10974	10654
East Khasi Hills	501	4412	8806	520	5035	9683	505	4444	8800	506	4453	8800	505	4439	8790
South West Khasi Hills	61	589	9656	63	650	10317	64	618	9656	65	628	9662	64	620	9688
West Jaintia Hills	342	3813	11149	354	4257	12025	346	3857	11147	347	3869	11150	346	3848	11121
East Jaintia Hills	14	150	10714	15	165	11000	14	150	10714	14	150	10714	14	149	10643
West Khasi Hills	294	2859	9724	304	3136	10316	298	2900	9732	299	2910	9732	298	2887	9688
North Garo Hills	1584	3237	2044	1663	3407	2049	1588	3242	2042	1589	3248	2044	1587	3239	2041
East Garo Hills	3226	22153	6867	3397	24793	7298	3230	22176	6866	3231	22185	6866	3229	22167	6865
West Garo Hills	2405	11315	4705	2496	12750	5108	2407	11329	4707	2408	11335	4707	2405	11313	4704
South West Garo Hills	192	5428	28271	193	5404	28000	194	5431	27995	194	5431	27995	194	5448	28082
South Garo Hills	265	1061	4004	276	1177	4264	268	1073	4004	269	1078	4007	268	1072	4000
Meghalaya	9911	65979	6657	10349	73292	7082	9944	66195	6657	9953	66273	6659	9940	66156	6656

Production figures are in terms of fresh

Table 3.6 District-wise area, production and productivity of ginger in Assam 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
N.C.Hills	4393	39533	8999	4346	39188	9017	4571	41253	9025	4437	40408	9107	3932	35898	9130
K.Anglong	1599	17213	10765	2647	28302	10692	2758	29771	10794	2845	30462	10707	2625	28184	10737
Golaghat	951	8535	8975	951	8588	9030	951	8602	9045	950	8831	9296	1393	13088	9396
Somitpur	612	5945	9714	841	8217	9771	1072	10445	9743	825	8282	10039	1225	12380	10106
Udalguri	590	5832	9885	582	5796	9959	567	5650	9965	580	5976	10303	924	9601	10391
Tinsukia	935	7376	7889	946	7552	7983	937	7486	7989	939	7872	8383	860	7306	8495
Barpeta	546	4193	7679	665	5171	7776	657	5114	7784	640	5246	8197	826	6865	8311
Nagaon	650	6494	9991	659	6651	10093	587	5666	9652	634	6710	10584	655	7010	10702
Goalpara	263	1944	7392	261	1969	7544	291	2199	7557	302	2470	8179	551	4602	8352
Lakhimpur	475	3717	7825	569	4539	7977	633	5058	7991	573	4937	8616	542	4761	8784
Baksa	672	5400	8036	675	5524	8184	680	5573	8196	690	6084	8817	541	4861	8985
Dhemaji	500	4390	8780	504	4497	8923	484	4325	8936	487	4650	9548	534	5184	9708
Darang	373	2900	7775	414	3288	7942	395	3143	7957	397	3432	8645	493	4354	8832
Kokrajhar	417	3159	7576	429	3326	7753	430	3337	7760	425	3604	8480	474	4113	8677
Kamrup (R)	482	3704	7685	484	3816	7884	480	3788	7892	472	4108	8703	421	3755	8919
Chirang	440	2218	5041	441	2333	5290	455	2416	5310	445	2775	6236	403	2622	6506
Morigaon	317	2850	8991	249	2289	9193	295	2718	9214	232	2342	10095	372	3836	10312
Chachar	223	1592	7139	202	1494	7396	192	1422	7406	197	1661	8431	339	2953	8711
Nalbari	382	3052	7990	384	3165	8242	383	3162	8256	383	3553	9277	331	3158	9541
Hailakandi	203	1247	6143	206	1330	6456	81	523	6457	252	1926	7643	306	2437	7964
Bongaigaon	225	1471	6538	239	1645	6883	230	1587	6900	236	1837	7784	271	2320	8561
Jorhat	283	2233	7890	239	1961	8205	274	2253	8223	301	2857	9492	269	2639	9810
Diburgarh	152	1195	7862	149	1227	8235	155	1278	8245	133	1279	9617	249	2479	9956
Sibsagar	160	1238	7738	175	1415	8086	187	1629	8711	133	1262	9489	146	1420	9726
Karimganj	146	1123	7692	140	1128	8057	142	1146	8070	148	1407	9507	239	2358	9866
Dhubri	221	1928	8724	143	1301	9098	157	1429	9102	143	1519	10622	219	2404	10977
Kamrup (M)	96	959	9990	92	950	10326	61	631	10344	66	782	11848	211	2569	12175
Total	16306	141441	8674	17632	156662	8885	18105	161604	8926	17865	166272	9307	19351	183157	9465

Production figures are in terms of fresh

Table 3.7 District-wise area, production and productivity of ginger in Madhya Pradesh 2016-17 to 2019-20

District	2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Aagar	64	1271	19760	64	1271	19760	67	1329	19836	73	1433	19759
Alirajpur	390	10335	26500	394	10441	26500	398	10547	26500	438	8550	19520
Anuppur	680	11560	17000	757	12869	17000	831	14293	17200	1240	22313	18000
Ashoknagar	147	2205	15000	147	2205	15000	147	2220	15102	147	2220	15102
Badwani	299	4485	15000	271	4644	17137	276	4741	17178	287	4962	17289
Balaghat	262	3972	15160	346	5187	15000	347	5205	15000	423	6345	15000
Betul	85	808	9500	85	808	9506	84	796	9476	85	796	9365
Bhopal	232	1260	5431	262	5240	20000	129	2580	20000	130	2560	19692
Burhanpur	200	4670	23350	200	4670	23350	204	4764	23353	212	4184	19736
Chhatarpur	1780	24920	14000	1262	17116	13563	1254	16827	13419	1255	16834	13414
Chhintwara	3010	60200	20000	3010	60200	20000	3010	60200	20000	3010	59406	19736
Damoh	140	2100	15000	150	2250	15000	182	2775	15247	198	2970	15000
Datiya	185	2775	15000	192	2880	15000	193	2895	15000	194	2910	15000
Dawas	115	2427	21104	122	2582	21164	127	2689	21173	145	3071	21176
Dhar	1027	19530	19017	1095	25732	23500	1115	25984	23304	1125	21274	18910
Dindori	105	1260	12000	109	1308	12000	112	1344	12000	124	1488	12000
Guna	32	480	15000	48	720	15000	62	930	15000	78	1170	15000
Gwalior	146	3650	25000	146	3650	25000	149	3725	25000	175	4375	25000
Harda	100	1180	11800	105	1240	11810	160	1890	11813	160	1890	11813
Hoshangabad	130	2015	15500	132	2046	15500	131	1953	14908	131	1953	14910
Indore	72	1800	25000	80	1600	20000	112	2240	20000	118	2360	20000
Jabalpur	544	8160	15000	550	8256	15010	578	8085	13988	578	8668	15010
Jhabua	187	2244	12000	199	2388	12000	200	2400	12000	188	2256	12000
Katani	978	13340	13640	979	15464	15800	979	15467	15799	982	15508	15800
Khandwa	1010	12550	12426	976	12128	12426	960	11904	12400	1008	12499	12400
Khargone	225	5468	24300	125	3036	24288	142	3450	24296	145	2830	19520

Continued....

District	2016-17			2017-18			2018-19			2019-20		
	Area(ha)	Production (tonnes)	Productivity (kg/ha)	Area(ha)	Production (tonnes)	Productivity (kg/ha)	Area(ha)	Production (tonnes)	Productivity (kg/ha)	Area(ha)	Production (tonnes)	Productivity (kg/ha)
Mandla	79	1008	12729	87	1109	12765	91	1167	12824	94	1206	12798
Mandsaur	6	96	16000	8	120	16000	12	192	16000	12	192	16000
Narasimhapur	522	8700	16667	522	8700	16667	540	8978	16626	540	8978	16626
Nimach	5	50	10000	6	90	15000	6	60	10000	6	60	10000
Panna	92	604	6565	95	623	6558	95	665	7000	115	1188	10330
Raisen	120	1488	12400	120	1488	12400	120	1488	12400	120	1488	12400
Rajgarh	157	1727	11000	160	1760	11000	160	1760	11000	205	2250	10976
Ratlam	80	1453	18163	71	1453	20465	71	1290	18169	69	1260	18256
Rewa	867	9537	11000	728	8011	11000	1188	13080	11010	1540	16955	11010
Sagar	1425	35635	25007	1125	28750	25556	1205	30530	25336	1345	26725	19870
Satna	282	3729	13218	277	3684	13298	328	4148	12646	400	5414	13536
Sehore	50	708	14150	60	849	14150	65	920	14154	93	1316	14150
Seoni	493	7198	14600	484	6824	14100	492	6992	14211	505	7176	14211
Shahdol	243	3890	16010	262	3863	14746	265	3964	14958	480	7186	14970
Shajapur	125	1868	14944	90	1346	14950	92	1375	14946	90	1345	14944
Shivpuri	200	4000	20000	212	4240	20000	230	4600	20000	335	4600	13731
Sidhi	105	2182	20781	115	2300	20000	125	2500	20000	267	5068	18980
Singaroli	222	3086	13900	250	3750	15000	280	4480	16000	478	8604	18000
Tikamgarh	5007	61586	12300	5841	71844	12300	6509	97635	15000	6903	103545	15000
Ujjain	40	584	14600	84	1252	14900	87	1310	15057	86	1301	15100
Umaria	115	3400	29565	380	2432	6399	400	2560	6400	500	5685	11370
Vidisha	773	15446	19982	649	13054	20114	654	13354	20419	649	12026	18531
State total	23154	372638	16094	23431	377471	16110	24964	414282	16595	27480	438394	15953

Production figures are in terms of fresh

Table 3.8 Trend in export and import of ginger in India for the last twenty years

Year	Quantity (tonnes)	Value (Rs in lakhs)	Quantity (tonnes)	Value (Rs in lakhs)
2001-02	6464	2311	12651	1534
2002-03	8461	2397	17693	1715
2003-04	4696	2275	34291	3513
2004-05	13000	5950	18335	3245
2005-06	9411	4296	23680	4663
2006-07	7500	3975	32518	4016
2007-08	6700	2800	22500	3275
2008-09	5000	3483	27750	3888
2009-10	5500	4675	27250	4906
2010-11	15750	12131	21500	8267
2011-12	21550	20420	16920	4739
2012-13	22207	18725	57090	10410
2013-14	23300	25614	36400	10178
2014-15	40400	33133	23050	10666
2015-16	24,800	27,596	26,610	10116
2016-17	24,950	25,705	35,605	9201
2017-18	22,605	21,607	34,300	10060
2018-19	18,150	19,602	30085	16154
2019-20	60,410	52,905	41100	24261
2020-21	125,700	75,665	NA	NA

Table 3.9 Country-wise export of ginger from India

(Quantity: tonnes, Value: Rs in lakhs)

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
Bangladesh	10467	1878	11350	3147	8404	1778	8597	2649	36473	189485
Morocco	785	1426	1664	2374	4033	4633	2230	3551	6874	16172
U.S.A	1888	4789	1409	3297	1944	4182	2022	4682	2649	6816
U.K	744	1710	755	1556	1006	1585	952	1661	703	1540
U.A.E	552	879	818	1095	1320	1441	894	1090	2632	2460
Nepal	236	414	433	675	306	385	616	725	819	1350
Netherlands	463	1117	358	865	264	520	239	519	422	946
Saudi Arabia	1116	2097	993	1411	697	855	237	413	1155	2059
Total (Incl. others)	24800	27062	24950	25705	22605	21607	18150	19602	60410	52905

Table 3.10 Monthly average price of ginger in major market centres 2015-16 to 2020-21**Cochin (Dry Ginger)**

Rs/quintal

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	22250	16700	12325	13800	24000	27000
May	21600	16250	11625	15750	24800	27000
June	22250	16500	11000	15900	25750	27000
July	23400	16500	11125	16000	26000	28000
August	22750	16125	14000	16800	26000	28750
September	20500	15600	14000	19000	26000	29000
October	20000	14375	14000	19500	26000	28800
November	20000	14500	13250	20500	26000	27250
December	20125	15875	13200	20500	26375	26750
January	18600	15000	13250	22875	27400	24800
February	18125	14500	13000	25000	27375	23250
March	17875	13000	13000	24000	27000	20625
Mean	20623	15410	12815	19135	26058	26519

Kozhikode (Fresh Ginger)

Rs/quintal

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	4325	2980	2360	3150	7950	6100
May	4460	3700	2225	5100	10033	4325
June	6625	4375	3300	4640	10750	5950
July	5720	3860	2760	4950	14833	6200
August	5250	3950	3300	5420	13700	7300
September	5250	3800	3375	5075	11625	6800
October	6300	3775	3350	5834	11250	6750
November	5250	3425	3275	5700	5800	5125
December	2900	2420	2767	5667	5500	2500
January	2820	2175	2000	6500	5775	2460
February	2825	2225	2100	6500	5000	2200
March	2900	2200	2680	7420	5233	2200
Mean	4552	3240	2791	5496	8954	4826

Table 3.11 Farm wholesale price of ginger in Kerala 2013-14 to 2018-19

Ginger Dry

Price: Rs/quintal

Month	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
July	11500	NA	15500	12050	8625	9057
August	11000	NA	17000	12000	8533	8820
September	10667	NA	17250	11833	8000	10438
October	9833	NA	15000	11667	8000	10500
November	8500	NA	13500	9875	8000	10875
December	9600	NA	16650	13500	8833	11000
January	10450	17000	15750	13250	9188	14017
February	15500	16575	15417	10964	8619	14525
March	18000	18000	14393	10429	9341	16946
April	25000	18500	13936	10064	9135	19417
May	24000	17750	12450	10500	9544	16667
June	NA	NA	12110	8250	9369	16833
Mean	14005	17565	14913	11199	8766	13258

Ginger Fresh

Month	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
July	12652	9767	6398	5381	4298	5777
August	11535	9176	6347	5568	4537	6829
September	9444	7602	5341	4794	4200	6217
October	7224	5700	4378	4878	3927	6440
November	5554	4920	4558	4624	3619	6254
December	5115	4792	3916	3880	3377	6061
January	5397	3705	3588	3658	3002	6411
February	5495	3660	3427	3421	2952	6268
March	6436	4265	3628	3356	3052	6836
April	8516	4872	3782	3704	3565	7585
May	9758	5235	4657	3692	4723	8748
June	9548	6416	5214	4023	5525	10990
Mean	8056	5843	4603	4248	3898	7035

Table 3.12 Value of output of Dry Ginger, Statewise at 2011-12 prices

Rs in Lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	748	690	364	324	255	470	470
Arunachal Pradesh	25342	30567	31767	28158	26550	26636	26190
Assam	38144	41601	38439	44627	51268	52340	52607
Bihar	254	339	258	339	444	238	198
Chhattisgarh	1225	1146	1000	1100	1075	1110	1187
Gujarat	11403	16998	50670	84795	73570	72079	77637
Haryana	5086	3691	5853	2776	3691	3920	3920
Himachal Pradesh	6082	3295	3587	5849	28424	20704	31095
Jammu & Kashmir	59	53	47	34	23	55	35
Jharkhand	15054	15553	15554	15668	0	0	0
Karnataka	31373	19395	17584	30010	30012	36689	18034
Kerala	33524	19921	19186	20756	19903	18489	17136
Madhya Pradesh	9638	9638	13516	9638	12118	12979	12979
Maharashtra	987	987	987	987	198814	119140	133486
Manipur	518	488	856	488	488	488	488
Meghalaya	7475	7735	8133	8172	8227	8535	8513
Mizoram	3808	3137	3306	3448	3501	6629	6644
Nagaland	5120	4912	8448	8708	8837	7714	7784
Odisha	44191	43991	43775	43422	11459	10473	10473
Rajasthan	48	243	189	177	222	207	207
Sikkim	13910	14492	14644	14762	15583	15495	15709
Tamil Nadu	392	173	73	73	192	454	415
Telangana	5330	4416	3558	4623	3326	3449	3628
Tripura	6857	6983	3424	3424	3424	3424	7091
Uttar Pradesh	911	1301	1357	1415	1415	1415	1357
Uttarakhand	9372	4991	4991	4991	4174	4061	4061
West Bengal	8612	8632	8722	8805	44443	44919	46073
A & N Islands	668	668	511	511	656	670	655
All India	286131	266035	300802	348079	552092	472781	488069

Table 3.13 Value of output of Dry Ginger, Statewise at current prices

Rs in Lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	748	960	572	749	448	685	590
Arunachal Pradesh	25342	32567	40614	42000	39603	33240	28146
Assam	38144	45614	42646	50296	58580	66887	68970
Bihar	254	329	328	556	729	391	279
Chhattisgarh	1225	1198	1514	1861	1943	2050	2052
Gujarat	11403	16998	72679	157034	126711	133485	143779
Haryana	5086	3200	7955	4911	5943	5573	5573
Himachal Pradesh	6082	2856	5147	11850	57591	42191	53411
Jammu & Kashmir	59	53	74	54	49	108	70
Jharkhand	15054	19511	25951	32239	0	0	0
Karnataka	31373	19416	38827	61282	69377	63859	33972
Kerala	33524	17272	22470	25834	34041	6956	4685
Madhya Pradesh	9638	9875	13379	10325	11086	12592	10844
Maharashtra	987	1000	908	1169	233641	155138	151072
Manipur	518	423	1677	1178	1344	1059	1298
Meghalaya	7475	7849	8580	8854	8958	9683	10043
Mizoram	3808	3549	4488	4680	4935	11620	12026
Nagaland	5120	5526	11616	12245	13200	12250	14109
Odisha	44191	51911	52148	58677	17188	18051	18932
Rajasthan	48	527	718	872	1096	699	677
Sikkim	13910	17028	18548	20487	22923	25479	28410
Tamil Nadu	392	164	70	198	484	1411	1272
Telangana	5330	7110	5729	9520	5653	4191	4408
Tripura	6857	6975	4134	5510	5779	6498	13757
Uttar Pradesh	911	1304	1618	1877	1703	1350	1230
Uttarakhand	9372	9734	14192	17503	14059	5160	5008
West Bengal	8612	14946	23812	23265	82144	70277	76864
A & N Islands	668	668	511	631	971	829	699
All India	286131	298562	420905	565660	820178	691713	692176

Table 3.14 Major Ginger producing countries in the World

District	2015			2016			2017			2018			2019		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
India	142000	760000	5352	165000	1109000	6721	168000	1070000	6369	165000	1762000	10679	164000	1788000	10902
Nigeria	68282	413382	6054	85359	774887	9078	96059	834634	8689	86529	700000	8090	84156	691239	8214
China, mainland	46642	495923	10633	52000	550000	10577	51435	546306	10621	53415	569520	10662	55059	581137	10555
Nepal	23826	242547	10180	21869	271863	12431	22649	279504	12341	23000	284000	12348	22132	297512	13443
Indonesia	15324	313064	20430	12932	340341	26318	10556	216587	20518	10227	207412	20281	8077	174380	21590
Thailand	9656	162404	16819	9834	166346	16915	10112	168025	16616	10067	166196	16509	10118	166923	16498
Cameroon	5809	55428	9542	8066	79273	9828	9042	88709	9811	8618	85060	9870	8145	83434	10244
Bangladesh	10216	83004	8125	9473	77290	8159	9307	77478	8325	9609	79438	8267	9610	80234	8349
Japan	1840	49400	26848	1810	50800	28066	1780	48300	27135	1750	46600	26629	1729	45506	26319
Philippines	3805	26623	6997	3831	26787	6992	3908	27482	7032	3930	27926	7106	3924	26929	6863
Peru	1503	11150	7418	2042	15100	7395	3676	27170	7391	2937	21700	7388	3498	25835	7386
China, Taiwan Province of	863	24465	28349	1010	23417	23185	906	22098	24391	863	23372	27082	885	23986	27103
Mali	2283	34470	15099	2480	38589	15560	3074	24863	8088	2909	23528	8088	1294	17137	13243
Sri Lanka	2418	18538	7667	2488	23184	9318	1882	16326	8675	1999	14208	7108	1837	15687	8539
Ethiopia	3688	10926	2963	3819	11121	2912	3931	11328	2882	4044	11534	2852	4160	11741	2822
Malaysia	965	12924	13393	940	13362	14215	974	14279	14660	846	13485	15940	761	11205	14724
Fiji	244	6109	25037	262	6548	24992	303	7585	25033	395	9894	25048	313	9398	30026
Côte d'Ivoire	531	6948	13085	512	6825	13330	508	6911	13604	504	6997	13883	501	7083	14138
Bhutan	1487	7434	4999	1932	10871	5627	1434	6445	4494	873	4260	4880	966	6209	6428
Republic of Korea	2751	4128	1501	4091	11789	2882	2573	8229	3198	2140	4261	1991	2105	5211	2476
Mexico	68	523	7691	123	1084	8813	302	2585	8560	391	3923	10033	372	3860	10376
Costa Rica	338	4056	12000	309	3708	12000	324	3888	12000	314	3135	9984	229	2500	10917
Guyana	74	909	12284	83	1011	12181	108	1320	12222	251	3062	12199	189	2307	12206
Grenada	1327	4234	3191	1900	6123	3223	1900	6002	3159	2150	6854	3188	272	870	3199
Jamaica	352	1286	3653	268	790	2948	195	600	3077	208	645	3101	233	712	3056
United States of America	20	668	33400	20	645	32250	20	637	31850	21	638	30381	21	638	30381
Kenya	28	253	9036	26	224	8615	12	84	7000	3	15	5000	39	359	9205
Total (Including others)	347282	2753027	7927	393514	3623585	9208	405591	3518955	8676	393762	4080927	10364	385172	4081374	10596

4. Chilli

Table 4.1 Trend in area, production and productivity of Chilli for the last twenty years

Year	Area ('000 ha)	Production ('000 tonnes)	Productivity (kg/ha)
2001-02	880.000	1069.000	1215
2002-03	827.400	894.600	1081
2003-04	774.580	1235.370	1595
2004-05	821.060	1198.480	1460
2005-06	652.890	1013.350	1552
2006-07	769.850	1226.950	1594
2007-08	805.820	1292.970	1605
2008-09	792.180	1350.730	1705
2009-10	815.710	1461.130	1791
2010-11	721.890	1320.990	1646
2011-12	781.250	1481.720	1695
2012-13	687.450	1463.770	1886
2013-14	686.135	1534.195	1963
2014-15	709.984	1631.535	2298
2015-16	741.730	1494.691	2015
2016-17	859.787	2449.590	2849
2017-18	676.148	1710.731	2530
2018-19	706.709	1515.557	2145
2019-20	623.446	1841.799	2954
2020-21	728.627	2092.153	2871

Table 4.2 (a) State-wise area, production and productivity of Red Chilli in India 2013-14 to 2016-17

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	131.316	601.993	4584	134.959	739.621	5480	156.055	618.420	3963	209.347	1031.338	4926
Arunachal Pradesh	2.500	4.400	1760	2.600	7.500	2885	2.960	8.288	2800	3.700	7.000	1892
Assam	18.915	16.476	871	21.007	18.381	875	19.929	17.736	890	20.546	18.207	886
Bihar	2.275	4.591	2018	1.954	2.734	1399	1.603	2.051	1279	1.765	3.022	1712
Chhattisgarh	6.290	4.629	736	6.891	3.576	519	6.939	3.039	438	5.060	4.321	854
Gujarat	19.045	33.304	1749	14.775	26.936	1823	14.723	26.910	1828	14.039	26.031	1854
Haryana	2.430	4.219	1736	2.430	4.219	1736	2.430	4.219	1736	2.200	4.000	1818
Himachal Pradesh	0.419	0.653	1558	0.466	0.150	322	0.599	0.217	363	0.599	0.239	399
Jammu & Kashmir	0.699	0.676	967	0.623	0.346	556	0.646	0.532	823	0.646	0.532	823
Karnataka	88.974	114.154	1283	95.449	118.488	1241	102.290	103.242	1009	127.602	260.143	2039
Kerala	1.336	1.283	960	1.584	1.491	941	1.707	1.602	938			
Madhya Pradesh	72.129	132.390	1835	87.682	100.171	1142	79.736	132.438	1661	98.538	303.626	3081
Maharashtra	17.323	35.875	2071	17.323	35.875	2071	17.323	35.875	2071	2.100	3.432	1634
Manipur	6.500	3.900	600	6.500	3.900	600	6.500	3.900	600	6.500	3.900	600
Meghalaya	2.009	1.559	776	2.232	1.970	883	2.292	2.127	928			
Mizoram	9.040	9.100	1007	9.140	9.330	1021	9.140	9.330	1021	11.196	10.918	975
Nagaland	6.820	47.904	7024	7.147	48.791	6827	6.810	50.391	7400	5.582	40.887	7325
Orissa	76.707	74.367	969	76.016	73.575	968	71.690	68.567	956	71.696	69.166	965
Punjab	10.600	17.700	1670	10.600	17.700	1670	7.501	14.084	1878	7.501	14.084	1878
Rajasthan	8.837	11.456	1296	9.778	12.920	1321	12.318	18.218	1479	11.128	18.781	1688
Tamil Nadu	41.401	11.294	273	44.606	29.391	659	46.522	23.762	511	44.839	20.585	459
Telangana	78.935	279.777	3544	73.274	253.260	3456	81.597	227.610	2789	124.324	482.872	3884
Tripura	2.350	3.700	1574	2.350	3.700	1574	2.350	3.700	1574	3.057	7.208	2358
Uttar Pradesh	13.283	10.951	824	13.455	11.149	829	13.547	10.260	757	13.547	10.260	757
Uttarakhand	2.000	7.200	3600	2.000	7.200	3600	9.000	7.200	800	9.000	7.200	800
West Bengal	63.600	100.000	1572	64.740	98.480	1521	65.123	100.338	1541	65.123	100.338	1541
Pondicherry	0.005	0.039	7800	0.006	0.076		0.003	0.030	10000	0.004	0.026	6500
Andaman & Nicobar	0.397	0.605	1524	0.397	0.605	1524	0.397	0.605	1524	0.148	1.474	9927
Total	686.135	1534.195	2236	709.984	1631.535	2298	741.730	1494.691	2015	859.79	2449.59	2849

Table 4.2 (b) State-wise area, production and productivity of Red Chilli in India 2017-18 to 2020-21

(Area: '000 ha, Production : '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2020-21(3rd Adv.Fst.)		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	119.262	618.348	5,185	158.428	501.407	3,165	153.082	805.026	5,259	177.456	796.653	4,489
Arunachal Pradesh	0.220	0.807	3,675	0.165	0.851	5,164	0.165	0.851	5,164	1.062	2.377	2,238
Assam	20.242	18.994	938	19.847	18.984	957	22.359	21.867	978	20.749	19.513	940
Bihar	1.510	2.733	1,810	2.260	4.756	2,104	2.196	4.713	2,146	1.933	3.806	1,969
Chhattisgarh	4.243	1.498	353	5.220	3.049	584	5.415	3.249	600	4.985	3.029	608
Gujarat	11.348	22.072	1,945	11.335	21.444	1,892	11.299	18.905	1,673	12.000	22.702	1,892
Haryana	2.200	4.000	1,818	2.222	4.080	1,836	2.207	4.027	1,825			
Himachal Pradesh	0.663	0.239	361	0.578	0.199	344	0.583	0.276	473	0.587	0.277	472
Jammu & Kashmir	0.664	0.346	522	0.672	0.540	804	0.690	0.556	806	0.664	0.551	830
Karnataka	100.336	191.475	1,908	157.587	194.758	1,236	74.078	129.238	1,745	114.901	193.904	1,688
Madhya Pradesh	94.415	232.699	2,465	87.839	217.548	2,477	88.675	208.634	2,353	116.618	299.568	2,569
Maharashtra	7.053	14.134	2,004	5.698	14.025	2,461	6.508	22.434	3,447	5.131	23.752	3,779
Manipur	6.500	3.900	600	0.000	0.001	9,400	0.000	0.001	9,800	-	-	-
Mizoram	11.196	10.918	975	11.200	10.918	975	11.196	10.918	975	11.196	10.918	975
Nagaland	0.182	0.805	4,423	1.372	1.798	1,310	1.379	1.754	1,272	1.376	1.753	1,274
Orissa	71.700	69.280	966	71.700	69.280	966	71.700	69.280	966	72.000	69.000	958
Punjab	7.501	14.084	1,878	8.770	16.656	1,899	8.776	16.955	1,932	8.777	17.630	2,009
Rajasthan	7.991	13.282	1,662	8.480	14.356	1,693	9.832	20.033	2,038	6.603	10.925	1,654
Tamil Nadu	44.119	18.108	410	45.949	14.000	305	47.991	29.618	617	55.716	25.648	460
Telangana	73.777	340.804	4,619	82.521	369.016	4,472	80.579	436.378	5,416	92.000	553.000	4,510
Tripura	2.767	6.312	2,281	2.797	6.545	2,340	2.812	6.664	2,370	2.825	6.698	2,371
Uttar Pradesh	13.636	12.578	922	13.763	12.716	924	13.547	11.808	872	13.677	12.068	882
Uttarakhand	9.000	7.200	800	2.803	9.474	3,380	2.848	9.632	3,382	2.869	9.685	3,375
West Bengal	65.552	105.750	1,613	5.292	8.300	1,568	5.450	8.576	1,574	5.460	8.567	1,569
Pondicherry	0.007	0.064	9,143	0.006	0.076	12,667	0.007	0.093	13,286	0.008	0.011	14,000
Andaman & Nicobar	0.065	0.300	4,651	0.206	0.781	3,800	0.073	0.313	4,288	0.035	0.118	3,352
Total	676.148	1,710.731	2,530	706.709	1,515.557	2,145	623.446	1,841.799	2,954	728.627	2,092.153	2,871

Table 4.3 District-wise area, production and productivity of Red Chilli in Andhra Pradesh 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Srikakulam	1163	4805	4132	1029	4894	4756	1292	4383	3392	810	2802	3459	598	2084	3485
Vizianagaram	1086	2114	1947	1004	2920	2908	689	1598	2319	527	628	1192	410	872	2127
Visakhapatnam	823	1289	1566	884	1578	1785	593	744	1255	402	581	1445	319	487	1527
East Godavari	3212	17347	5401	3361	17007	5060	2733	13424	4912	2712	10155	3744	2566	9157	3569
West Godavari	3704	12635	3411	2204	8506	3859	1510	5290	3503	1310	3268	2495	873	2377	2723
Krishna	10251	60891	5940	16979	109976	6477	7158	48564	6785	3956	75384	5402	13606	101075	7429
Guntur	66148	266708	4032	88354	507830	5748	60087	351097	5843	1406	262570	3225	76667	456253	5951
Prakasham	43855	165853	3782	57453	173261	3016	21998	102958	4680	3091	76759	2526	35521	132379	3727
Nellore	2145	14198	6619	2441	20287	8311	1076	7485	6956	930	5090	5473	949	6178	6510
Cuddapah	1278	5554	4346	1556	12018	7724	899	4590	5106	1022	4469	4373	729	5219	7159
Kurnool	17066	51273	3004	26908	154720	5750	13363	57654	4314	6445	48695	2961	14977	69848	4664
Ananthapur	3793	11535	3041	4966	13380	2694	5816	14649	2519	6869	6146	895	3873	12671	3272
Chittoor	1531	4218	2755	2208	4961	2247	2048	5912	2887	1648	4860	2949	1994	6426	3223
Andhra Pradesh	156055	618420	3963	209347	1031338	4926	119262	618348	51851	58428	501407	3165	153082	805026	5259

Table 4.4 District-wise area, production and productivity of Red Chilli in Karnataka 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Bagalkote	1484	2970	2001	4607	8314	1805	3959	6489	1639	3245	2691	829	125	138	1104
Bangalore urban	94	120	1277	152	312	2053	116	228	1966						
Bangalore rural	407	438	1076	356	723	2031	296	557	1882						
Belgaum	3799	7129	1877	4133	8147	1971	5726	10804	1887	1040	1285	1236			
Bellary	20174	30764	1525	35311	153235	4340	25039	87457	3493	55059	140808	2557	30401	77950	2564
Bidar	236	270	1144	196	400	2041	224	429	1915	573	708	1236			
Bijapur	2110	2944	1395	1492	3002	2012	1455	2240	1540	1879	5867	3122	1247	10983	8808
Chamarajanagar	1129	1365	1209	751	1576	2099	1228	2375	1934						
Chickballapur	601	697	1160	781	1616	2069	786	1520	1934				35	61	1743
Chikmagalore	2497	1610	645	2463	2239	909	1806	2536	1404	697	790	1133	262	297	1134
Chitradurga	1793	2358	1315	2453	1530	624	2075	1230	593	3073	1468	478	1504	2402	1597
Dakshin Kannada	137	143	1044	132	266	2015	132	248	1879						
Davangare	1555	2389	1536	1781	10860	6098	1962	3791	1932	1061	1311	1236	14	24	1714
Dharwad	29691	6888	232	34303	10413	304	20514	8280	404	49663	10710	216	21155	10290	486
Gadag	10714	5000	467	14661	17536	1196	11683	22121	1893	20146	9876	490	9155	9863	1077
Gulbarga	812	919	1132	2619	5458	2084	3458	10344	2991	1743	1520	0	494	2097	4245
Hassan	1831	6737	3679	1670	5619	3365	1721	5181	3010						
Haveri	8457	8693	1028	6006	5415	902	7413	7052	951	6880	2601	378	1009	281	278
Kodagu	164	225	1372	166	380	2289	169	345	2041						
Kolar	874	1197	1370	695	1406	2023	681	1297	1905				12	21	1750
Koppal	2227	3166	1422	2952	6724	2278	2234	4383	1962	2199	2718	1236	2138	3729	1744
Mandya	852	979	1149	626	1290	2061	571	1099	1925						
Mysore	2258	2835	1256	1974	4069	2061	2134	4122	1932						
Raichur	4211	8877	2108	2151	4358	2026	1724	3245	1882	7423	9174	1236	5214	9094	1744
Ramanagaram	492	427	868	522	275	527	326	355	1089				21	18	857
Shimoga	278	398	1432	130	275	2115	165	315	1909	15	19	1267			
Tumkur	2712	3136	1156	1755	934	532	1786	1622	908	1392	1359	976	588	762	1296
Udupi	146	223	1527	146	305	2089	151	295	1954						
Uttara Kannada	0	0		0	0		3	6	2000						
Yadgir	555	345	622	1718	3466	2017	799	1509	1889	1499	1853	1236	704	1228	1744
State Total	102290	103242	1009	26702	260143	2053	00336	191475	1908	157587	194758	1236	74078	129238	1745

Table 4.5 District-wise area, production and productivity of Red Chilli in Madhya Pradesh 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Agar	394	300	761	1447	7783	5378	472	2538	5378	490	1573	3210	490	1573	3210
Alirajpur	613	924	1507	1645	3619	2200	1795	5026	2800	1825	5128	2840	2015	5723	2840
Anuppur	115	75	652	17	132	7780	21	53	2500	36	91	2549	36	91	2549
Ashoknagar	276	406	1471	137	274	2000	137	274	2000	137	280	2044	137	280	2044
Badwani	3806	38199	10037	5768	9229	1600	4638	7420	1600	4877	7803	1904	14	27	1904
Balaghat	232	107	461	14	42	3000	14	26	1829	14	27	1600	5183	8291	1600
Betul	970	3113	3209	756	2416	3196	764	2437	3190	206	723	3379	226	764	3379
Bhind	20	8	400												
Bhopal	284	282	993	535	2688	5024	500	2500	5000	280	1410	2409	286	689	2409
Burhanpur	294	579	1969	480	1200	2500	485	1210	2495	490	1222	2500	496	1240	2500
Chhatarpur	906	255	281	4909	25282	5150	4117	21201	5150	4116	20875	2160	4117	8893	2160
Chhatarwara	2810	1941	691	260	2600	10000	260	2600	10000	142	1168	3012	135	407	3012
Damoh	376	401	1066	82	410	5000	85	213	2500	85	213	2500	85	213	2500
Datiya	61	51	836	310	310	1000	317	317	1000	318	318	1000	330	330	1000
Dawas	234	6	26							0					
Dhar	11823	21050	1780	18215	24408	1340	8500	24790	1340	18508	24895	1386	8530	25680	1386
Dindori	11	11	1000							0					
Guna	26	11	423							0					
Gwalior	36	33	917	1311	9177	7000	1311	9177	7000	1316	9212	3410	1318	4494	3410
Harda	123	207	1683							0		2500	125	313	2500
Hoshangabad	659	546	829	307	921	3000	307	921	3000	311	964	3099	311	964	3099
Indore	124	98	790							0					
Jabalpur	347	598	1723	830	5075	6114	840	5136	6114	882	5392	3210	882	2831	3210
Jhabua	1708	2684	1571	883	2649	3000	890	2670	3000	617	1851	3000	713	2139	3000
Katani	214	321	1500	1575	4347	2760	1576	5549	3520	1580	5560	3520	1580	5560	3520
Khandwa	9093	16240	1786	5800	16240	2800	5740	16072	2800	5180	14504	1416	5439	7700	1416
Khargone	34245	31601	923	32300	93670	2900	2150	80375	2500	25369	63423	3500	23280	81480	3500
Mandla	87	63	724	22	52	2360	25	69	2709	31	85	2727	243	662	2727

Continued....

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Mandsaur	941	1186	1260	730	876	1200	723	868	1201	788	945	1199	788	945	1199
Morena	68	257	3779	54	65	1204	58	71	1224				62	84	1355
Narasimhapur	240	451	1879	618	1568	2537	618	1568	2537	60	78	1300	591	1628	2755
Nimach	97	84	866	305	4576	15003	59	65	1100	591	1628	2755	65	72	1100
Panna	489	967	1978	580	3330	5741	585	3357	5738	65	72	1100	620	1996	3220
Raisen	191	90	471	100	200	2000	100	200	2000	585	3357	5738	112	224	2000
Rajgarh	520	474	912	1165	757	650	1166	758	650	112	224	2000	1236	803	650
Ratlam	2278	5046	2215	949	1651	1740	949	1651	1740	1170	761	650	906	1812	2000
Rewa	262	168	641	2135	10141	4750	1857	8823	4750	967	1934	2000	3555	11660	3280
Sagar	408	388	951							2966	12607	4250			
Satna	820	390	476	370	1097	2967	197	572	2902	247	713	2892	286	821	2871
Sehore	365	352	964	700	2121	3030	750	2273	3030	750	2273	3030	921	2791	3030
Seoni	252	238	944	414	2489	6013	410	1307	3187	428	1378	3218	443	1427	3220
Shahdol	104	46	442							0					
Shajapur	184	110	598	277	443	1600	215	348	1619	216	350	1619	217	349	1608
Sheopur				680	3210	4721	680	3210	4721	681	3214	4720	730	1986	2721
Shivpuri	429	378	881	3120	1560	500	3210	1605	500	2503	1252	500	2527	1252	495
Sidhi	153	68	444	599	564	942	600	580	967	610	592	970	805	782	971
Singaroli	262	531	2027	225	360	1600	300	540	1800	330	660	2000	498	996	2000
Tikamgarh	1119	799	714	7632	55332	7250	6481	12962	2000	7453	16397	2200	7753	17057	2200
Ujjain	191	97	508	168	504	3000	217	684	3150	226	722	3200	238	781	3280
Umariya	128	55	430	14	108	7714	246	613	2490	260	650	2500	300	750	2500
Vidisha	96	41	427	100	150	1500	49	74	1500	49	72	1462	51	77	1500
Non reported	252	64	254												
State Total	79736	132390	1660	98538	303627	3081	94415	232699	2465	87839	217548	2477	88675	208634	2353

Table 4.6 District-wise area, production and productivity of Red Chilli in Telangana 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Adilabad	1251	1733	1385	106	414	3906	84	402	4786	45	224	4978	54	297	5500
Komaram Bheem				121	420	3471	25	111	4440	114	616	5404	32	182	5688
Mancherial				1297	4507	3475	470	1523	3240	486	1747	3595	398	1789	4495
Nirmal				616	2141	3476	240	815	3396	236	834	3534	88	242	2750
Nizamabad	523	1447	2767	435	1974	4538	312	1684	5397	325	1823	5609	57	325	5702
Jagtial				1097	3038	2769	912	2523	2766	880	1847	2099	1052	1559	1482
Peddapalli				730	2895	3966	259	1145	4421	407	1748	4295	316	1694	5361
Jayashankar				19361	95132	4914	13263	51515	3884	6963	28563	4102	7772	31554	4060
Bhadradi				9263	43553	4702	4564	27641	6056	4843	28402	5865	4928	24243	4919
Mahabubabad				20215	90203	4462	12418	55650	4481	12240	46976	3838	13719	52959	3860
Warangal Rural				8116	35249	4343	5508	22835	4146	6289	36285	5770	5896	24736	4195
Warangal Urban	28226	82348	2917	529	2415	4565	121	221	1826	192	824	4292	114	614	5386
Karimnagar	3731	9374	2512	308	853	2769	81	358	4420	158	678	4291	321	1721	5361
Rajanna				122	338	2770	47	208	4426	52	223	4288	6	32	5333
Kamareddy				87	478	5494	133	747	5617	65	350	5385	10	58	5800
Sangareddy				249	1023	4108	82	362	4415	106	459	4330	57	312	5474
Medak	369	216	585	42	209	4976	21	108	5143	21	108	5143	2	11	5500
Siddipet				136	511	3757	4	18	4500	34	151	4441	57	314	5509
Jangaon				1163	5366	4614	656	3761	5733	472	3677	7790	308	1305	4237
Yadadri				82	209	2549	12	53	4417	64	275	4297	59	318	5390
Rangareddy	365	1015	2781	66	323	4894	69	345	5000	43	229	5326	56	323	5768
Vikarabad				224	987	4406	134	592	4418	159	683	4296	126	675	5357
Mahaboobnagar	11051	25574	2314	539	1407	2610	348	1603	4606	148	636	4297	101	548	5426
Jogulamba				15386	35253	2291	8841	11458	1296	9290	32264	3473	7341	40207	5477
Wanaparthy				611	1507	2466	344	850	2471	381	1725	4528	406	2176	5360
Nagarkurnool				1266	4373	3454	455	1750	3846	845	3784	4478	786	4258	5417
Nalgonda	5286	10695	2023	6094	15049	2469	1608	4808	2990	1566	5580	3563	1133	8210	7246
Suryapet				6780	18660	2752	3655	12463	3410	4656	23023	4945	6617	37504	5668
Khammam	30795	95208	3092	29280	114374	3906	19111	135255	7077	24092	107101	4446	20911	150235	7184
Mulugu										7296	37953	5202	7842	47900	6108
Medchal Malkang				3	11								5	29	5800
Narayanpet										53	228	4302	9	48	5333
Telangana	81597	227610	2789	124324	482872	3884	73777	340804	4619	82521	369016	4472	80579	436378	5416

Table 4.7 District-wise area, production and productivity of Chilli in Tamil Nadu 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Kancheepuram	90	46	511	323	148	458	224	92	411	220	147	668	106	104	981
Chengalpattu															
Thiruvallur	441	362	821	445	785	1764	491	894	1821	416	628	1510	501	401	800
Cuddalore	296	151	510	437	201	460	436	179	411	418	127	304			
Villupuram	291	149	512	245	113	461	376	154	410	358	109	304	621	383	617
Kallakurichi													809	500	618
Ranipet													763	997	1307
Vellore	908	1900	2093	1311	3086	2354	938	1914	2041	1015	855	842	519	320	617
Thirupathur													578	357	618
Thiruvannamalai	660	565	856	807	1582	1960	1057	1923	1819	912	573	628	1443	6770	4692
Salem	954	907	951	721	373	517	484	197	407	539	225	417	664	370	557
Namakkal	183	94	514	261	120	460	217	89	410	284	86	303	310	191	616
Dharmapuri	443	185	418	556	351	631	365	159	436	405	224	553	716	422	589
Krishnagiri	540	484	896	621	492	792	674	566	840	478	193	404	1083	1070	988
Coimbatore	472	241	511	563	258	458	391	160	409	433	132	305	499	308	617
Thiruppur	637	326	512	559	2274	4068	344	141	410	573	80	140	701	714	1019
Erode	170	87	512	142	65	458	96	39	406	134	41	306	231	142	615
Tiruchirappalli	555	779	1404	806	2524	3132	584	647	1108	532	238	447	970	825	851
Karur	442	326	738	273	22	81	365	433	1186	376	451	1199	456	548	1202
Perambalur	120	60	500	188	195	1037	134	242	1806	99	30	303	233	143	614
Ariyalur	211	162	768	373	181	485	183	82	448	188	82	436	160	283	1769
Pudukottai	204	104	510	145	66	455	221	91	412	260	79	304	434	268	618
Thanjavur	62	32	516	48	22	458	38	16	421	43	13	302	67	42	627
Thiruvarur	0	0		18	8	444	16	7	438	14	4	286	30	19	633
Nagapattinam	15	8	533	26	12	462	12	5	417	14	4	286	13	8	615
Madurai	321	251	782	570	68	119	348	284	816	342	341	997	524	678	1294
Theni	386	197	510	535	246	460	417	171	410	413	308	746			
Dindigul	1554	1714	1103	1330	1064	800	1226	3140	2561	1227	1730	1410	1266	2702	2134
Ramanathapuram	16530	3901	236	16058	2548	159	16622	3540	213	17270	2466	143	16273	3214	198
Virudhunagar	1667	1619	971	1410	853	605	1217	957	786	984	357	363	1062	492	463
Sivagangai	4222	422	100	3729	397	106	3959	261	66	5639	1404	249	5239	2391	456
Tirunelveli	589	460	781	719	480	668	182	24	132	395	466	1180	96	59	615
Thoothukudi	13559	8230	607	11615	2049	176	12498	1700	136	11964	2605	218	246	158	642
The Nilgiris		0		3	1	333	3	1	333	2	1	500	11067	4547	411
Kanyakumari		0		2	1	500	1	0	0				2	1	500
Total	46522	23762	511	44839	20585	459	44119	18108	410	45947	13999	305	47991	29618	617

Table 4.8 Trend in export and import of Chilli in India for the last twenty years

Year	Export		Import (Chilli/Paprika)	
	Quantity (tonnes)	Value (Rs in lakhs)	Quantity (tonnes)	Value (Rs in lakhs)
2001-02	69998	25244	1114	430.57
2002-03	81022	31515	1638	1025.47
2003-04	86575	36688	2138	1224.43
2004-05	138000	49901	680	300.71
2005-06	113,174	40,301	933	444.09
2006-07	148,500	80,775	1,595	1029.54
2007-08	209,000	109,750	475	361.00
2008-09	188,000	108,095	820	657.25
2009-10	204,000	129,173	1,300	750.00
2010-11	240,000	153,554	450	408.25
2011-12	241,000	214,408	1740	2134.00
2012-13	301,000	238,061	1225	940.22
2013-14	312,500	272,227	580	1034.73
2014-15	347,000	351,710	275	702.50
2015-16	347,500	399,744	425	1024
2016-17	400,250	507,076	1055	1932
2017-18	443,900	425,633	1450	2700
2018-19	468,500	541,118	1230	1961
2019-20	496,000	671,040	1280	2120
2020-21	601,500	842,975	NA	NA

Table 4.9 Country-wise export of Chilli from India

(Quantity: tonnes, Value: Rs in lakhs)

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
China	2029	2211	2400	2723	9373	9767	74903	93677	139966	217827
Thailand	59916	70671	60009	93097	60725	56584	66197	75447	59364	90302
Sri Lanka	46509	50120	51393	52053	51292	32706	53186	46488	50835	62302
U.S.A	23908	37628	20795	39175	30164	42643	27793	45535	30688	52154
Indonesia	19856	22116	33394	40934	32096	27764	34849	36627	36602	46411
Bangladesh	14426	5614	30440	23720	12868	10276	25406	34250	39551	43359
Malaysia	30994	40031	28792	44189	27703	29374	31692	33558	26083	40199
U.A.E	33786	23690	38417	28698	36800	24084	29741	18860	40779	28799
Vietnam	58843	78560	70012	95928	140552	138378	66303	86855	9435	13598
U.K	6694	8714	6833	10305	6984	9160	7248	10886	8335	11288
Total (Incl.Others)	347500	399744	400250	507076	443900	425633	468500	541118	496000	671040

Table 4.10 Monthly average price of Chilli in major market centres 2015-16 to 2020-21

Virudhunagar

(Rs/quintal)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	7163	11250	4312	7750	7687	NA
May	7600	12657	4000	7875	8900	NA
June	7938	12600	3600	8800	8875	NA
July	7875	12025	4812	8375	9750	11500
August	9112	11812	5410	8150	10625	11000
September	10700	12150	6000	8000	12250	12812
October	11200	10937	6000	8000	10687	16250
November	11750	9687	6500	8000	13450	13833
December	13000	9500	5800	8250	13875	13450
January	10250	6833	6812	7375	16562	13187
February	12150	5687	7167	7125	11250	13000
March	11590	4950	7875	7550	12167	12562
Mean	10027	10007	5691	7938	11340	13066

Cold Storage / Non-cold storage

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	7263	10775	4950	7500	7833	NA
May	7650	NA	3483	7700	8675	NA
June	8325	11200	3075	8200	9266	NA
July	8460	11550	4787	7462	10312	NA
August	8412	11475	6210	7599	10981	NA
September	9656	11694	NA	7924	12706	NA
October	10212	11125	NA	7724	12068	NA
November	12912	10118	5912	8660	12775	9875
December	11075	8710	6270	8037	14168	9600
January	10000	7793	7012	8012	15007	10531
February	12444	6617	6975	7637	12750	11006
March	11610	6394	7712	6137	12850	10350
Mean	9835	9768	5639	7716	11616	10272

Table 4.11 Value of output of Dry Chillies, Statewise at 2011-12 prices

Rs in Lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	345878	279779	365215	448713	375183	602373	602373
Arunachal Pradesh	783	841	1228	1365	1509	1805	1873
Assam	13635	15648	17459	18314	20256	20531	21831
Bihar	1813	2412	3925	3925	1753	1753	2335
Chhattisgarh	5217	5977	4223	4223	4014	3941	4014
Gujarat	7975	83954	73855	35888	29001	27288	23787
Haryana	4447	6841	3592	1112	3609	3421	3421
Himachal Pradesh	365	263	263	263	474	316	315
Jammu & Kashmir	791	990	990	504	706	774	504
Jharkhand	195371	196507	195168	197098	99134	123641	173371
Karnataka	46562	46546	49658	51543	51544	44910	83294
Kerala	2140	894	890	1029	1028	1104	1115
Madhya Pradesh	62913	62960	288211	306829	89115	91194	164553
Maharashtra	30954	30954	30954	30954	30954	24356	4209
Manipur	8376	8376	7173	7173	8376	6679	8376
Meghalaya	440	478	556	589	635	669	702
Mizoram	7840	6560	7280	7464	7464	7464	8734
Nagaland	5225	6175	9101	9295	9574	7769	8459
Odisha	44360	44533	44563	44090	41945	41447	41445
Punjab	1320	1408	1408	1408	1408	1408	12394
Rajasthan	14328	12656	8576	9737	13852	14279	10145
Tamil Nadu	17002	12386	7793	20281	16396	14204	12490
Telangana	178230	228338	213019	192827	173298	350996	259481
Tripura	3031	3430	2951	4540	2951	2951	5034
Uttar Pradesh	7177	6689	7735	7630	7149	16584	8766
Uttarakhand	7124	6736	7020	7020	6736	6736	6736
West Bengal	86401	87478	88106	88357	90026	90241	94879
A & N Islands	174	573	192	292	310	441	273
Puducherry	5	5	22	44	17	15	17
All India	1099876	1160385	1441127	1502507	1088418	1509291	1564924

Table 4.12 Value of output of Dry Chillies, Statewise at current prices

Rs in Lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	345878	279778	396150	567407	698584	778290	788876
Arunachal Pradesh	783	855	1316	1950	2902	3520	4630
Assam	13635	16043	17938	18958	20999	21352	23987
Bihar	1813	2127	4432	5117	2546	2646	4221
Chhattisgarh	5217	6912	5232	6041	5602	4730	3749
Gujarat	7975	50880	57551	30843	30593	26002	19768
Haryana	4447	5719	3461	1237	4804	4738	4738
Himachal Pradesh	365	220	252	288	584	397	298
Jammu & Kashmir	791	1057	1070	552	849	925	610
Jharkhand	195371	216599	242914	284894	170441	222494	314604
Karnataka	46562	46546	79864	85617	121385	125577	125498
Kerala	2140	894	786	1049	1254	1401	1164
Madhya Pradesh	62913	64026	364681	415279	132440	157554	246290
Maharashtra	30954	29152	30284	33475	43424	57806	7279
Manipur	8376	7002	10075	8899	11359	9833	15093
Meghalaya	440	486	577	624	680	747	803
Mizoram	7840	7872	10010	12762	15870	1887	2780
Nagaland	5225	7475	12454	13405	14663	12729	15582
Odisha	44360	53838	58213	61130	63491	73988	74057
Punjab	1320	1408	1590	1846	1777	1777	15640
Rajasthan	14328	11480	9246	10849	18653	18068	11809
Tamil Nadu	17002	10083	6879	24340	25801	24671	19412
Telangana	178230	187681	196364	197523	205566	472525	321106
Tripura	3031	4128	3071	5994	5573	7030	12384
Uttar Pradesh	7177	7984	9665	10519	10570	25368	12267
Uttarakhand	7124	5885	6696	7862	8907	10046	7526
West Bengal	86401	94738	109302	114825	111817	140268	133328
A & N Islands	174	573	192	337	395	585	298
Puducherry	5	5	29	72	42	34	45
All India	1099876	1121446	1640294	1923695	1731568	2206988	2187842

Table 4.13 Major Chilli producing countries in the world

Country	2015			2016			2017			2018			2019		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
India	761000	1605000	2109	811140	1520390	1874	840000	2096000	2495	752000	2149000	2858	780000	1743000	2235
Thailand	85645	348223	4066	88435	372736	4215	93935	348235	3707	88672	340639	3842	89040	348102	3910
China, mainland	45754	305809	6684	46102	309019	6703	46830	314693	6720	47553	320366	6737	48273	326040	6754
Ethiopia	142795	289677	2029	180701	329804	1825	152753	264723	1733	172142	307457	1786	174464	313115	1795
Côte d'Ivoire	25804	140779	5456	26432	149427	5653	27002	158204	5859	27533	166981	6065	28029	175758	6271
Bangladesh	92167	123207	1337	101972	130260	1277	103380	136872	1324	101072	141177	1397	96800	149473	1544
Myanmar	110075	126800	1152	110051	129361	1175	109224	130592	1196	107420	128072	1192	108602	137110	1262
Ghana	14910	110454	7408	15221	114412	7517	15519	118372	7628	15812	122332	7737	16099	126291	7845
Viet Nam	65789	95304	1449	67491	97189	1440	68833	98745	1435	70161	100269	1429	71482	101766	1424
Pakistan	64829	142200	2193	64829	142163	2193	63619	142730	2244	65275	148114	2269	47349	101659	2147
Nigeria	37822	64811	1714	38473	66714	1734	39182	68448	1747	39881	70183	1760	40570	71917	1773
Nepal	8033	35668	4440	7707	41046	5326	10077	49718	4934	10500	52500	5000	10690	67167	6283
Egypt	17244	59211	3434	17613	60091	3412	17964	60946	3393	18208	61557	3381	18452	62269	3375
Mexico	32446	60382	1861	32033	60242	1881	31814	60397	1898	31600	60552	1916	31389	60706	1934
Cameroon	16326	39312	2408	17301	41889	2421	18078	44432	2458	18832	46975	2494	19565	49518	2531
Benin	25861	75722	2928	27729	88268	3183	22516	69439	3084	21052	49125	2334	21754	46115	2120
Democratic Republic of the Congo	10155	36016	3547	10414	36746	3529	10592	37188	3511	10726	37471	3493	10861	37755	3476
Uzbekistan	1964	7500	3819	2496	10000	4006	3634	15000	4128	5426	23000	4239	7193	31294	4351
Morocco	1428	26916	18849	1399	27872	19923	1379	28640	20769	1361	29407	21607	1344	30174	22451
Tunisia	8253	20833	2524	8885	22456	2527	9429	23850	2529	9970	25242	2532	10511	26636	2534
Bosnia and Herzegovina	2982	26289	8816	2966	26223	8841	2926	26026	8895	2867	25647	8946	2811	25289	8996
Peru	3625	21378	5897	5413	31085	5743	4313	24213	5614	4430	26232	5921	4042	23312	5767
Jamaica	986	13111	13297	1121	16067	14333	1038	14520	13988	1111	15998	14400	1221	18106	14829
South Africa	8405	16764	1995	8146	17128	2103	7929	17355	2189	7728	17582	2275	7542	17809	2361
Algeria	3978	14296	3594	3993	15134	3790	3984	15757	3955	3975	16380	4121	3968	17003	4285
Turkey	6847	16258	2374	6672	15945	2390	6621	15818	2389	6577	15710	2389	6539	15614	2388
Lao People's Democratic Republic	3278	12738	3886	3350	12907	3853	3415	13227	3873	3479	13547	3894	3542	13866	3915
Cambodia	13526	12471	922	13812	12683	918	14052	12877	916	14286	13071	915	14517	13264	914
Niger	1166	10308	8840	1240	10783	8696	1339	12047	8997	1386	13797	9955	1350	13198	9776
Sudan	3300	10595	3211	3259	11445	3512	3344	11879	3552	3536	12517	3540	3730	13155	3527
Bhutan	1821	9968	5474	1783	9907	5556	2401	13606	5667	2338	13507	5777	2139	12591	5886

Continued...

Country	2015			2016			2017			2018			2019		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
South Sudan	4794	7109	1483	4309	8024	1862	4499	8480	1885	4892	9143	1869	5292	9805	1853
United Republic of Tanzania	3037	7369	2426	2858	7241	2534	2756	7251	2631	2661	7261	2729	2573	7271	2826
Senegal	650	4761	7325	648	4750	7330	657	4816	7330	664	4868	7331	675	4941	7320
Sierra Leone	1049	4278	4078	1024	4433	4329	1013	4533	4475	1002	4632	4623	993	4731	4764
Serbia	1736	4030	2321	1806	4194	2322	1808	4212	2330	1837	4295	2338	1866	4378	2346
Mali	5074	4086	805	4876	4020	824	4849	4065	838	4822	4110	852	4796	4154	866
Iran (Islamic Republic of)	1525	3735	2449	1529	3796	2483	1533	3853	2513	1537	3910	2544	1540	3968	2577
North Macedonia	782	3648	4665	791	3629	4588	792	3639	4595	793	3649	4602	793	3658	4613
Togo	8092	3387	419	8134	3415	420	8201	3459	422	8267	3503	424	8332	3547	426
Argentina	2790	3171	1137	2758	3165	1148	2745	3166	1153	2731	3168	1160	2716	3169	1167
Uganda	3076	3047	991	2967	2951	995	2898	2893	998	2832	2838	1002	2768	2785	1006
Kenya	2665	3240	1216	2437	3000	1231	2275	2830	1244	2115	2660	1258	1959	2490	1271
Malaysia	3102	2279	735	3195	2296	719	3292	2321	705	3394	2345	691	3500	2370	677
Cabo Verde	119	1527	12832	120	1525	12708	123	1556	12650	126	1587	12595	129	1618	12543
Madagascar	1831	1932	1055	1659	1762	1062	1530	1634	1068	1402	1506	1074	1275	1378	1081
Kyrgyzstan	422	1029	2438	447	1084	2425	482	1164	2415	504	1217	2415	525	1270	2419
Syrian Arab Republic	756	946	1251	785	1005	1280	808	1052	1302	830	1099	1324	852	1146	1345
Malawi	2472	1593	644	1917	1300	678	2300	1500	652	1894	1228	648	1695	1083	639
Djibouti	298	563	1889	300	596	1987	300	622	2073	300	649	2163	300	675	2250
Zambia	469	642	1369	429	591	1378	402	560	1393	376	529	1407	350	498	1423
Kazakhstan	192	407	2120	200	431	2155	199	435	2186	201	444	2209	202	452	2238
Zimbabwe	315	161	511	320	170	531	270	128	474	367	146	398	969	356	367
Central African Republic	80	114	1425	77	114	1481	75	115	1533	74	116	1568	72	116	1611
Grenada	17	100	5882	17	101	5941	17	102	6000	17	103	6059	18	106	5889
Maldives	10	10	1000	11	11	1000	11	11	1000	11	12	1091	12	12	1000
Papua New Guinea	1	2	2000	1	1	1000	1	1	1000	1	1	1000	1	1	1000
Total (including others)	1723336	4021133	2333	1833241	4072836	2222	1844022	4590967	2490	1710559	4629426	2706	1728071	4255050	2462

5. Turmeric

Table 5.1 Trend in area, production and productivity of Turmeric for the last twenty years

Year	Area ('000 ha)	Production ('000 tonnes)	Productivity (kg/ha)
2001-02	167.100	562.800	3368
2002-03	150.100	522.200	3479
2003-04	150.340	564.260	3753
2004-05	157.792	712.585	4516
2005-06	172.010	851.700	4951
2006-07	178.629	787.010	4406
2007-08	174.290	794.640	4559
2008-09	171.953	825.951	4803
2009-10	170.343	807.240	4739
2010-11	206.334	1034.542	5014
2011-12	247.200	1268.972	5133
2012-13	210.506	981.580	4663
2013-14	185.354	943.815	5092
2014-15	202.564	983.655	4856
2015-16	209.535	981.409	4684
2016-17	247.630	925.269	3736
2017-18	231.389	862.768	3729
2018-19	261.922	957.127	3654
2019-20	296.181	1178.751	3980
2020-21	291.279	1064.441	3654

Table 5.2 (a) State-wise area, production and productivity of Turmeric in India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Productivity: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	17.822	151.906	8524	16.534	143.230	8663	17.018	121.117	7117	19.182	79.729	4156
Arunachal Pradesh	0.635	2.857	4499	0.725	3.500	4828	0.800	3.840	4800	0.930	4.000	4301
Assam	16.309	15.782	968	16.567	16.335	986	16.272	16.184	995	16.804	16.747	997
Bihar	2.840	3.015	1062	3.280	3.592	1095	2.443	2.630	1077	3.063	3.082	1006
Chhattisgarh	1.128	0.964	855	1.098	0.957	872	1.800	1.523	846	1.083	0.997	921
Gujarat	3.151	52.063	16523	3.289	64.067	19479	3.552	69.247	19495	3.711	14.630	3942
Haryana	1.330	23.836	17922	1.330	23.836	17922	1.330	23.836	17922	1.500	4.400	2933
Himachal Pradesh	0.266	1.004	3774	0.560	0.142	254	0.206	0.113	549	0.204	0.112	551
Jammu & Kashmir	0.017	0.018	1059	0.012	0.012	1033	0.014	0.014	1000	0.014	0.014	1000
Karnataka	13.356	63.617	4763	12.824	76.777	5987	14.994	76.490	5101	19.327	114.511	5925
Kerala	2.430	6.253	2573	2.470	6.820	2761	2.603	7.112	2732	2.631	6.506	2473
Madhya Pradesh	1.394	1.527	1095	1.417	1.614	1139	1.651	1.614	978	12.876	45.916	3566
Maharashtra	6.674	87.050	13043	10.622	146.435	13786	10.714	177.846	16599	14.054	44.936	3197
Manipur	1.400	16.400	11714	1.400	16.400	11714	1.400	16.400	11714	1.400	3.080	2200
Meghalaya	2.173	12.525	5764	2.516	15.671	6229	2.577	16.324	6334	2.632	3.277	1245
Mizoram	6.250	24.700	3952	6.350	25.130	3957	7.204	27.816	3861	7.483	28.890	3861
Nagaland	0.610	8.540	14000	0.657	10.772	16396	0.642	10.147	15805	0.703	2.067	2940
Orissa	3.233	35.759	11061	28.022	44.148	1575	27.855	43.065	1546	27.859	43.600	1565
Punjab	0.775	2.711	3498	0.740	2.627	3550	0.895	3.191	3565	0.895	3.191	3565
Rajasthan	0.144	0.391	2715	0.117	0.258	2205	0.138	0.374	2710	0.185	0.643	3476
Sikkim	1.300	5.870	4515	1.720	5.020	2,919	1.950	5.680	2913	1.950	5.680	2913
Tamil Nadu	31.968	117.416	3673	26.072	105.002	4027	29.877	115.351	3861	35.795	129.563	3620
Telangana	49.638	252.061	5078	43.475	216.268	4975	42.535	184.285	4333	50.575	305.097	6033
Tripura	1.295	6.590	5089	1.295	6.590	5089	1.295	6.590	5089	1.800	11.069	6149
Uttar Pradesh	2.000	6.000	3000	2.000	6.000	3000	2.000	6.000	3000	2.000	6.000	3000
Uttarakhand	1.336	2.485	1860	0.903	1.740	1927	0.980	1.738	1773	0.855	1.749	2046
West Bengal	15.800	42.000	2658	16.490	40.240	2440	16.710	42.408	2538	18.000	45.500	2528
Pondicherry	0.002	0.005	2500	0.001	0.002	2000	0.002	0.004	2000	0.006	0.018	3000
Andaman & Nicobar	0.078	0.470	6026	0.078	0.470	6026	0.078	0.470	6026	0.114	0.265	2335
Total	185.354	943.815	5092	202.564	983.655	4856	209.535	981.409	4684	247.630	925.269	3736

Turmeric production in terms of dry (processed) from 2016-17

Table 5.2 (b) State-wise area, production and productivity of Turmeric in India 2016-17 to 2020-21

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2021-22		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	19.621	79.729	4063	28.921	69.410	2400	29.717	71.321	2400	30.518	73.244	2400
Arunachal Pradesh	0.552	3.148	5704	0.521	2.977	5718	0.521	2.977	5718	0.529	1.952	3691
Assam	16.871	20.787	1232	15.896	19.395	1220	17.629	22.829	1295	17.757	24.665	1389
Bihar	2.724	2.829	1039	2.981	3.082	1034	2.834	2.889	1019	2.901	2.971	1024
Chhattisgarh	1.153	0.963	835	1.108	1.021	921	1.443	1.157	802	1.197	1.035	864
Gujarat	4.005	15.782	3941	4.425	17.386	3929	4.570	18.181	3978	4.000	15.716	3929
Haryana	0.829	2.180	2629	0.921	2.195	2384	1.753	4.061	2316	1.331	3.009	2261
Himachal Pradesh	0.136	0.085	625	0.274	0.170	620	0.285	0.197	691	0.290	0.200	690
Jammu & Kashmir	0.009	0.012	1378	0.011	0.011	1000	0.004	0.004	1000	0.012	0.023	1900
Karnataka	19.339	122.764	6348	26.579	153.767	5785	20.740	132.668	6397	21.496	130.928	6091
Kerala	2.778	8.822	3176	2.484	6.694	2695	2.277	6.653	2922	2.287	6.809	2977
Madhya Pradesh	11.698	41.292	3530	13.666	47.657	3487	16.272	57.067	3507	17.092	60.127	3518
Maharashtra	15.757	38.591	2449	17.224	38.310	2224	54.248	218.873	4035	59.613	230.863	3931
Manipur	2.550	6.170	2420	2.504	6.065	2422	2.489	6.053	2432	2.236	5.342	2389
Meghalaya	2.649	3.299	1246	2.658	3.311	1246	2.277	3.490	1533	2.699	3.375	1251
Mizoram	7.738	29.820	3854	7.738	29.820	3854	7.653	29.510	3856	7.738	29.820	3854
Nagaland	0.706	2.037	2886	0.676	1.861	2752	0.652	1.834	2813	0.650	1.820	2803
Orissa	27.869	43.615	1565	27.869	43.615	1565	27.869	43.615	1565	27.867	43.611	1565
Punjab	0.895	3.191	3565	1.036	3.754	3624	0.952	3.469	3644	0.907	3.300	3638
Rajasthan	0.520	0.473	910	0.190	0.450	2368	0.179	0.222	1240	0.269	0.447	1665
Sikkim	1.950	5.680	2913	5.171	15.994	3093	5.178	16.037	3097	4.994	15.458	3045
Tamil Nadu	18.080	73.134	4045	23.351	92.361	3955	18.432	96.254	5222	20.894	86.513	4141
Telangana	50.154	294.561	5873	53.104	345.270	6502	55.444	386.596	6973	41.000	264.000	6388
Tripura	1.658	10.080	6080	1.658	2.016	1216	1.680	2.046	1218	1.682	6.303	3747
Uttar Pradesh	2.000	6.000	3000	1.420	1.913	1347	1.420	1.913	1347	1.710	3.957	2314
Uttarakhand	1.580	2.790	1766	1.722	2.836	1647	1.769	2.950	1667	1.786	2.962	1659
West Bengal	17.445	44.700	2562	17.737	45.458	2563	17.812	45.648	2563	17.749	45.698	2575
Pondicherry	0.008	0.024	3000	0.006	0.015	2500	0.011	0.033	3000	0.010	0.032	2818
Andaman & Nicobar	0.115	0.210	1826	0.071	0.313	4395	0.071	0.204	2871	0.067	0.262	3917
Total	231.389	862.768	3729	261.922	957.127	3654	296.181	1178.751	3980	291.279	1064.441	3654

Turmeric production in terms of dry (processed)

Table 5.3 District-wise area, production and productivity of Turmeric in Telangana

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Adilabad	7719	41474	5373	180	742	4122	158	928	5873	229	1489	6502	169	1178	6970
Komaram Bheem				8	33	4125	27	159	5889	21	137	6524	32	223	6969
Mancherial				162	668	4123	136	799	5875	41	267	6512	54	377	6981
Nirmal				7873	32453	4122	7328	44342	6051	8120	54981	6771	10481	68525	6538
Nizamabad	12242	33825	2763	14211	77322	5441	14178	69543	4905	14580	87495	6001	16162	95711	5922
Jagtial				12028	100735	8375	12779	88533	6928	13483	108120	8019	13918	120961	8691
Peddapalli				318	2663	8374	435	2555	5874	428	2783	6502	602	4198	6973
Jayashankar				696	4216	6057	536	3148	5873	706	4590	6501	594	4142	6973
Bhadradi				60	363	6050	48	282	5875	67	436	6507	47	328	6979
Mahabubabad	8	35	4375	5364	32495	6058	4401	32963	7490	4447	28910	6501	3381	21479	6353
Warangal Rural	8348	41239	4940	5168	31308	6058	5871	26748	4556	7241	35503	4903	6860	44096	6428
Warangal Urban				584	3538	6058	378	2220	5873	447	2906	6501	446	3110	6973
Karimnagar	10600	53975	5092	193	1616	8373	159	934	5874	224	1456	6500	255	1778	6973
Rajanna				80	670	8375	82	482	5878	38	247	6500	34	237	6971
Kamareddy				179	974	5441	76	446	5868	45	293	6511	79	551	6975
Sangareddy				1134	6854	6044	1006	5908	5873	850	1442	1696	501	3215	6417
Medak	1179	5109	4333	2	12	6000				2	13	6500			
Siddipet				1	6	6000									
Jangaon				40	242	6050	16	94	5875	52	338	6500	36	251	6972
Yadadri										1	7	7000			
Rangareddy	2253	7822	3472	31	106	3419	15	88	5867	12	78	6500	4	28	7000
Vikarabad				2136	7314	3424	2436	13866	5692	1827	12199	6677	1596	14862	9312
Nalgonda	2	9	4500	6	36	6000	26	153	5885						
Suryapet				11	66	6000							2	14	7000
Khammam	184	797	4332	110	665	6045	63	370	5873	87	566	6506	36	251	6972
Mulugu										156	1014	6500	155	1081	6974
State total	42535	184285	4333	50575	305097	6033	50154	294561	5873	53104	345270	6502	55444	386596	6973

Table 5.4 District-wise area, production and productivity of Turmeric in Tamil Nadu 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Chengalpattu															
Thiruvallur	4	15	3750	8	29	3580	7	28	4000	3	12	4000	3	17	5667
Cuddalore	405	775	1914	461	1085	2351	241	544	2257	223	502	2251	239	562	2351
Villupuram	2059	4845	2353	2497	7090	2839	1870	7984	4270	2057	7926	3853	7	36	5143
Kallakurichi															
Vellore	417	2840	6811	554	3126	5646	375	1927	5139	494	3419	6921	219	2282	10420
Ranipet													144	751	5215
Thirupathur													48	252	5250
Thiruvannamalai	313	634	2026	412	2828	6870	346	2274	6572	375	1958	5221	341	2646	7760
Salem	5160	15475	2999	6584	10612	1612	2657	7482	2816	4201	11553	2750	2765	11347	4104
Namakkal	2682	11372	4240	3360	10932	3253	1820	10893	5985	2135	7677	3596	1343	7186	5351
Dharmapuri	6933	21042	3035	7906	37747	4774	5298	14891	2811	5747	17181	2990	3902	17794	4560
Krishnagiri	613	1784	2910	666	2201	3307	492	1162	2362	712	1551	2178	727	2437	3352
Coimbatore	949	6837	7204	1277	2546	1993	525	2479	4722	412	2815	6833	350	2358	6737
Thiruppur	651	1892	2906	821	1453	1769	251	1167	4649	290	1146	3952	272	1418	5213
Erode	7960	41153	5170	9473	46397	4898	3072	15030	4893	5636	33240	5898	5087	34332	6749
Tiruchirappalli	670	2663	3975	638	855	1341	311	3034	9756	294	558	1898	199	1045	5251
Karur	199	1337	6719	227	20	88	140	367	2621	142	562	3958	63	330	5238
Perambalur	711	2105	2961	809	2277	2813	564	3424	6071	554	1960	3538	400	1880	4700
Ariyalur	34	131	3853	25	90	3600	16	65	4063	13	51	3923	5	28	5600
Pudukottai	17	66	3882	10	34	3571	24	97	4042	13	51	3923	17	84	4941
Thanjavur	8	31	3875	7	25	3605	17	69	4059	7	28	4000	7	37	5286
Thiruvarur	4	15	3750	4	14	3500	2	8	4000	3	12	4000	3	16	5333
Madurai	5	19	3800	10	37	3662	9	32	3556	4	18	4500	4	24	6000
Theni	41	158	3854	5	18	3571	1	4	4000	1	3	3000			
Dindigul	2	8	4000	10	37	3631	5	20	4000	3	12	4000	3	15	5000
Virudhunagar	1	4	4000	2	8	3846	1	4	4000	1	2	2000	1	6	6000
Sivagangai	4	15	3750	5	19	3578	8	32	4000	5	19	3800	3	14	4667
Tenkasi	6	23	3833	6	23	3608							1	4	4000
Tirunelveli	5	19	3800	3	12	3675	7	28	4000	3	13	4333	3	17	5667
Thoothukudi	24	93	3875	13	47	3675	4	20	5000	5	18	3600	4	19	4750
The Nilgiris	0	0		0	0		17	69	4059	11	45	4091	2	12	6000
Total	29877	115351	3861	35795	129562	3620	18080	73134	4045	23351	92360	3955	18432	96253	5222

Table 5.5 District-wise area, production and productivity of Turmeric in Karnataka 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Bagalkote	2611	16089	6162	3333	27551	8266	4059	20875	5143	4549	26816	5895	3580	25150	7025
Bangalore urban				1	6	6000	3	19	6333	2	12	6000	3	19	6333
Bangalore rural	5	26	5200				0	0		5	29	5800	3	19	6333
Belgaum	2244	4798	2138	6047	45455	7517	4663	33005	7078	8888	57461	6465	6710	48540	7234
Bellary	0	0		0			0	0		0	0		1	6	6000
Bidar	35	68	1943	42	249	5929	71	451	6352	323	1869	5786	202	1292	6396
Bijapur	53	270	5094	24	142	5917	11	70	6364	172	995	5785	157	1004	6395
Chamarajanagar	7092	37765	5325	6881	29554	4295	6466	47299	7315	9587	56122	5854	7440	47832	6429
Chickballapur	0	0					0	0		2	12	6000	1	6	6000
Chikmagalore	5	26	5200	9	53	5889	11	70	6364	6	35	5833	6	38	6333
Chitradurga			5103				0	0		1	6	6000	6	38	6333
Dakshin Kannada	58	296	5000	53	314	5925	10	63	6300	1	6	6000			
Davangare	1	5					0	0		2	12	6000	2	13	6500
Dharwad	0	0					1	6	6000	1	6	6000	1	6	6000
Gadag	0	0	2675				0	0		11	64	5818	1	6	6000
Gulbarga	80	214	5536	501	1583	3160	2049	11331	5530	468	279	596	491	1525	3106
Hassan	179	991		120	711	5925	119	755	6345	9	52	5778	8	51	6375
Haveri	0			8	47	5875	20	127	6350	15	87	5800	8	51	6375
Kodagu			3714				0	0		1	6	6000	3	19	6333
Kolar			6120				0	0		1	6	6000	1	6	6000
Koppal							0	0		0	0				
Mandya	21	78	5000	25	148	5920	39	248	6359	75	434	5787	34	217	6382
Mysore	2504	15324	5103	2213	8283	3743	1731	7899	4563	2345	8794	3750	2005	6338	3161
Raichur	0	0	5000	0			0	0		14	81	5786	23	147	6391
Ramanagaram	1	5		8	47	5875	2	13	6500	11	64	5818	8	51	6375
Shimoga	39	199		6	36	6000	16	102	6375	21	121	5762	8	51	6375
Tumkur	3	15		0	0		2	13	6500	3	17	5667	6	38	6333
Udupi	51	260	5098	50	296	5920	50	317	6340	12	69	5750	9	58	6444
Uttara Kannada	12	61		6	36	6000	15	95	6333	17	98	5765	15	96	6400
Yadgir							1	6	6000	37	214	5784	8	51	6375
Karnataka	14994	76490	5101	19327	114511	5925	19339	122764	6348	26579	153767	5785	20740	132668	6397

Table 5.6 District-wise area, production and productivity of Turmeric in Kerala for the last five years

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Thiruvananthapuram	73	185	2534	72	156	2167	70	150	2143	65	128	1972	61	129	2115
Kollam	240	387	1613	263	370	1407	257	417	1623	283	520	1836	299	584	1953
Pathanamthitta	83	183	2205	89	180	2022	99	376	3798	103	295	2862	110	396	3600
Alappuzha	43	88	2047	44	85	1932	49	94	1918	39	64	1620	47	98	2085
Kottayam	97	247	2546	103	246	2388	104	262	2519	109	290	2670	108	290	2685
Idukki	188	767	4080	185	725	3919	192	801	4172	188	672	3577	191	758	3969
Ernakulam	246	674	2740	247	685	2773	246	701	2850	218	583	2674	189	481	2545
Thrissur	77	164	2130	69	144	2087	75	178	2373	78	177	2273	66	149	2258
Palakkad	576	1689	2932	594	1562	2630	655	2366	3612	475	1428	3008	391	1225	3133
Malappuram	326	778	2387	354	733	2071	312	949	3042	293	649	2218	264	724	2742
Kozhikode	286	859	3003	272	681	2504	353	1136	3218	293	813	2775	251	769	3064
Wayanad	192	577	3005	167	385	2305	147	343	2333	147	369	2505	108	257	2380
Kannur	143	430	3007	144	483	3354	182	913	5016	161	609	3773	155	684	4413
Kasaragod	33	84	2545	29	71	2448	37	136	3676	32	98	3030	37	109	2946
State	2603	7112	2732	2632	6506	2472	2778	8822	3176	2484	6694	2695	2277	6653	2922

Table 5.7 District-wise area, production and productivity of Turmeric in Andhra Pradesh 2014-15 to 2016-17

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Srikkulam	215	1452	6753	204	861	4221	204	861	4221	253	607	2400	253	607	2400
Vizianagaram	31	209	6742	31	131	4226	32	131	4094		0			0	
Visakhapatnam	2998	15401	5137	3164	7723	2441	5771	7723	1338	9913	23791	2400	11286	27086	2400
East Godavari	164	1108	6756	225	950	4222	203	950	4680	558	1339	2400	324	778	2400
West Godavari	232	1567	6754	318	1343	4223	197	1343	6817	325	780	2400	180	432	2400
Krishna	2071	20878	10081	2318	13931	6010	2188	13931	6367	2999	7198	2400	2845	6828	2400
Guntur	5328	34030	6387	5582	25521	4572	4901	25521	5207	5422	13013	2400	4806	11534	2400
Prakasham	638	4223	6619	402	1245	3097	714	1245	1744	672	1613	2400	502	1205	2400
Nellore	115	777	6757	144	608	4222	93	608	6538	180	432	2400	182	437	2400
Cuddapah	3541	19440	5490	4918	16249	3304	4096	16249	3967	6512	15629	2400	5703	13687	2400
Kurnool	1654	21786	13172	1863	11115	5966	1155	11115	9623	1685	4044	2400	3234	7762	2400
Ananthapur	19	151	7947	0			1	0	0		0			0	
Chittoor	12	95	7917	13	52	4000	66	52	788	402	965	2400	402	965	2400
State total	17018	121117	7117	19182	79729	4156	19621	79729	4063	28921	69410	2400	29717	71321	2400

Table 5.8 Trend in export and import of Turmeric in India for the last twenty years

Year	Export		Import	
	Quantity (tonnes)	Value (Rs in lakhs)	Quantity (tonnes)	Value (Rs in lakhs)
2001-02	37778	9,074	120	12
2002-03	32402	10,338	1313	250
2003-04	37044	13,112	3005	841
2004-05	43000	15,650	1615	702
2005-06	46405	15,286	4,022	1676
2006-07	51,500	16,480	7,003	2520
2007-08	49,250	15,700	4,650	1227
2008-09	52,500	24,858	2,525	820
2009-10	50,750	38,123	4,450	2087
2010-11	49,250	70,285	3,900	4221
2011-12	79,500	73,434	2,325	3061
2012-13	88,513	55,488	2,495	2174
2013-14	77,500	66,676	7,350	5932
2014-15	86,000	74,435	9,300	7987
2015-16	88,500	92,165	15,330	14635
2016-17	116,500	124,189	14,150	16498
2017-18	107,300	103,568	17,120	18434
2018-19	133,600	141,616	30,578	29947
2019-20	137,650	128,691	28,580	24579
2020-21	183,000	167,660	NA	NA

Table 5.9 Country-wise export of Turmeric from India

(Quantity: tonnes, Value: Rs in lakhs)

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
Bangladesh	4803	2478	12773	10890	4277	3190	11602	12296	24126	16137
U.S.A	5544	9389	6830	11410	6435	11159	7340	16683	7276	15784
Iran	13141	11975	14862	13576	13431	10291	19062	19329	14358	11057
Malaysia	6376	6593	6249	6409	6562	6105	6937	6467	6956	6119
Morocco	2294	2027	5271	4656	6220	4912	8760	6768	8694	6075
U.A.E	5906	5298	8196	7645	7952	6549	7461	6523	6736	7609
U.K	3935	4411	3893	5473	4417	4878	4561	5633	4225	5017
Germany	2451	3145	2838	4231	2872	3645	3636	5925	3628	4900
Sri Lanka	4634	4337	4758	4483	5253	4462	5303	4579	4580	3780
Netherlands	2606	3200	2338	3087	2897	3337	2778	3729	3349	4214
Japan	2531	3428	2421	3734	2835	3393	2788	3866	3111	3824
Saudi Arabia	4105	4196	5257	5037	4007	3379	4499	3692	4729	4178
South Africa	2515	2294	2229	2445	2617	3172	2736	2812	2874	2923
Iraq	1703	1459	3468	2872	2615	1815	4053	2963	3967	2526
Tunisia	2594	2252	3386	3028	3444	2474	4461	3510	3514	2372
Total (Incl.Others)	88500	92165	116500	124191	107300	103568	133600	141616	137650	128691

Table 5.10 Monthly average wholesale price of turmeric (finger) in Nizamabad Market

Rs/quintal

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	6858	8038	5689	6407	5831	NT
May	7226	7963	5420	7467	5969	5167
June	6990	7845	5628	7184	6019	5310
July	6798	7974	6823	6804	6051	5347
August	7092	7611	7388	6395	5931	5459
September	7365	7026	7368	6225	5713	5414
October	7342	7223	6968	6516	5531	5193
November	8946	7250	6945	6754	5685	5434
December	8398	7412	7500	6680	5680	5411
January	6905	6886	7043	5437	5376	5436
February	7832	6852	5999	5216	4869	6237
March	7974	5724	5998	5225	5031	6920
Mean	7477	7317	6564	6359	5641	5575

Table 5.11 Monthly average price of Turmeric in Chennai market 2015-16 to 2020-21

Chennai (Erode)

Rs/quintal

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	10750	10700	10000	10250	10000	10000
May	11000	11500	10000	11000	10000	11000
June	10500	11000	10000	10550	9875	11000
July	10160	10480	10000	10775	10500	11000
August	10500	10500	10000	11000	11000	10625
September	10500	10000	9600	10500	11500	10500
October	9280	10000	9000	10500	10125	10500
November	9600	10000	9250	10500	9500	10500
December	9600	9400	9500	10750	9500	10125
January	9600	9525	10750	10875	9500	9840
February	10500	9900	10500	10250	9500	
March	10500	10000	10500	10100	9500	
Mean	10208	10250	9925	10588	10042	10509

Chennai (Salem)					Rs/quintal	
Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	11500	12580	11500	11250	10500	12000
May	11800	12800	11500	11875	10800	12000
June	10750	12350	11500	11000	10875	12000
July	10800	11220	11500	11000	11625	11625
August	11000	11350	11500	11000	11500	11500
September	11000	11500	10840	11000	11250	11500
October	11300	11500	11500	11000	10125	11500
November	11500	11500	11200	11280	10000	11500
December	11500	11200	11000	11750	10000	11500
January	11500	11300	11250	11875	10800	11400
February	12500	11650	11500	10750	11000	
March	12350	11500	11500	10900	11000	
Mean	11458	11704	11358	11223	10790	11653

Table 5.12 Farm harvest price of turmeric in Kerala 2013-14 to 2018-19

Price (Rs/quintal)

Month	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
July	6943	7271	9406	10124	10739	8664
August	6430	6663	8717	10857	9450	8617
September	5692	6613	8313	9540	6950	7725
October	5860	7000	8200	8883	7300	8513
November	6100	6250	7814	10229	8375	8325
December	6250	6125	8080	10000	8750	9060
January	6940	7470	9800	11357	9542	10306
February	7750	8086	10644	1214	10970	11023
March	7915	8825	11410	11875	10238	10059
April	8215	9113	11300	12117	9868	9868
May	7555	9069	10873	11446	9521	9104
June	7368	8925	10006	11089	9067	9750
Mean	6918	7617	9547	9894	9231	9251

Table 5.13 Value of output of Turmeric, Statewise at 2011-12 prices

(Rs in Lakhs)

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	67385	49923	50000	47143	39865	26242	26242
Arunachal Pradesh	300	310	328	375	411	385	394
Assam	13997	21370	16434	16565	17444	17735	19960
Bihar	2054	2557	2557	2557	2557	2241	2412
Chhattisgarh	815	778	794	1335	791	824	1265
Gujarat	33065	43155	33063	34091	45848	42893	51675
Haryana	6737	8776	13842	11412	8776	8099	8099
Himachal Pradesh	231	249	249	249	972	9582	280
Jammu & Kashmir	27	27	27	17	12	19	16
Jharkhand	5396	51124	51126	51128	0	0	0
Karnataka	49265	38415	24438	29494	29495	29384	47160
Kerala	7420	6447	5839	6368	6641	6075	8238
Madhya Pradesh	251	416	483	208	559	559	13549
Maharashtra	7010	499	9147	26650	113809	147885	158062
Manipur	6443	6443	6443	6443	6443	6050	6050
Meghalaya	6495	7909	9345	9682	10086	10275	10195
Mizoram	2339	1839	1976	2010	2226	2226	2386
Nagaland	113	1200	2050	2145	2189	2573	2445
Odisha	73479	79316	77914	77573	10543	19153	19153
Punjab						1174	1175
Rajasthan	313	339	285	188	273	467	345
Sikkim	681	910	1142	977	1105	1033	1105
Tamil Nadu	295631	140268	94220	84259	92563	103968	58686
Telangana	113285	107686	94510	81090	69098	110235	110446
Tripura	3802	4088	2616	2616	2616	2616	4001
Uttar Pradesh	2780	2482	2581	2979	2979	2979	2979
Uttarakhand	6637	2182	2182	2182	1524	1524	1523
West Bengal	21283	21529	21802	21988	23174	23715	24425
A & N Islands	315	306	468	580	666	865	592
Puducherry	5	5	3	1	2	10	9
All India	727552	600547	525862	522302	492165	580785	582865

Table 5.14 Value of output of Turmeric, Statewise at current prices

(Rs in Lakhs)

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	67385	39839	79770	97985	95344	54552	59426
Arunachal Pradesh	300	315	344	438	538	540	663
Assam	13997	22063	17015	17479	18419	18914	21720
Bihar	2054	2313	2454	2617	2913	2554	2804
Chhattisgarh	815	756	950	1694	1104	1053	1303
Gujarat	33065	43739	36348	42068	71444	63625	78022
Haryana	6737	7003	14257	12133	10663	9241	9430
Himachal Pradesh	231	198	131	132	574	6893	198
Jammu & Kashmir	27	28	29	19	14	22	19
Jharkhand	5396	51124	54241	57560	0	0	0
Karnataka	49265	63009	46343	62631	69624	48830	75305
Kerala	7420	4356	4899	6085	6989	1335	1804
Madhya Pradesh	251	422	517	602	1799	1717	42503
Maharashtra	7010	526	10493	32442	165656	176184	179797
Manipur	6443	5141	6443	6837	6870	6452	6452
Meghalaya	6495	7936	9422	9801	10864	12221	13085
Mizoram	2339	2165	2347	2399	3234	4039	4398
Nagaland	113	1250	2220	2405	2599	3221	3463
Odisha	73479	79511	81007	85078	13536	26381	27960
Punjab		0	0	0	0	1377	1406
Rajasthan	313	415	365	252	407	691	534
Sikkim	681	1070	1446	1355	1626	1699	1999
Tamil Nadu	295631	127656	86278	87017	116200	149178	97586
Telangana	113285	145925	134046	143422	127839	198065	242718
Tripura	3802	5933	2781	5207	5932	5727	9072
Uttar Pradesh	2780	3670	4337	5146	6022	6076	5483
Uttarakhand	6637	2629	1942	2248	1924	1594	1638
West Bengal	21283	21529	28482	33537	35981	41623	51973
A & N Islands	315	306	468	714	939	1178	822
Puducherry	5	6	4	2	4	22	21
All India	727552	640833	629377	719304	779056	845002	941605

6. Cardamoms

Table 6.1 Trend in area, production and productivity of Cardamom (Small & Large) for the last twenty years

Year	Small Cardamom			Large Cardamom			Cardamoms total		
	Area (['] 000 ha)	Production (['] 000 tonnes)	Productivity (kg/ha)	Area (['] 000 ha)	Production (['] 000 tonnes)	Productivity (kg/ha)	Area (['] 000 ha)	Production (['] 000 tonnes)	Productivity (kg/ha)
2001-02	65.200	9.900	152	29.900	7.900	264	95.100	17.800	187
2002-03	65.886	10.265	156	23.800	5.200	218	89.686	15.465	172
2003-04	66.010	10.460	158	29.600	6.200	152	95.610	16.660	174
2004-05	65.739	10.201	155	29.700	6.404	216	95.439	16.605	174
2005-06	66.067	11.365	172	29.700	6.404	216	95.767	17.769	186
2006-07	69.590	10.320	148	16.250	4.830	297	85.840	15.156	177
2007-08	65.350	8.650	132	16.610	4.990	300	81.970	13.630	166
2008-09	65.477	10.912	167	21.678	5.844	270	87.155	16.756	192
2009-10	64.425	9.397	146	22.995	5.870	255	87.420	15.267	175
2010-11	64.704	9.884	153	18.792	5.609	298	83.496	15.493	186
2011-12	65.526	12.950	198	22.105	5.806	263	87.628	18.756	214
2012-13	63.070	13.300	211	29.262	5.644	193	92.332	18.944	205
2013-14	62.446	15.882	254	22.825	5.880	258	85.271	21.762	255
2014-15	61.976	17.790	287	22.825	5.880	258	84.801	23.670	279
2015-16	61.373	21.335	348	24.154	6.734	279	85.527	28.069	328
2016-17	59.664	19.257	323	25.179	7.998	318	84.843	27.255	321
2017-18	57.584	20.467	355	24.588	7.844	319	82.172	28.311	345
2018-19	44.520	12.089	272	38.816	9.976	257	83.336	22.065	265
2019-20	45.467	10.725	236	39.966	10.182	255	85.433	20.907	245
2020-21	45.174	21.336	472	38.461	12.475	324	83.635	33.811	404

Table 6.2 (a) State-wise area, production and productivity of Cardamom (Small & Large) in India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Productivity: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Small Cardamom												
Karnataka	18.672	1.516	81	18.254	1.429	78	17.660	1.528	87	16.682	1.757	105
Kerala	39.730	14.000	352	39.730	16.000	403	39.730	19.500	491	39.080	17.147	439
Tamil Nadu	4.044	0.366	91	3.992	0.361	90	3.983	0.307	77	3.902	0.353	90
<i>Subtotal</i>	62.446	15.882	254	61.976	17.790	287	61.373	21.335	348	59.664	19.257	323
Large Cardamom												
Nagaland	3.000	1.300	433	3.314	1.476	445	3.734	1.869	501	4.224	2.238	530
Sikkim	16.520	3.860	234	17.020	3.970	233	17.480	4.110	235	18.000	5.000	278
West Bengal	3.305	0.720	218	2.925	0.750	256	2.940	0.755	257	2.955	0.760	257
<i>Sub total</i>	22.825	5.880	258	23.259	6.196	266	24.154	6.734	279	25.179	7.998	318
Grand Total	85.271	21.762	255	85.235	23.986	281	85.527	28.069	328	84.843	27.255	321

Table 6.2 (b) State-wise area, production and productivity of Cardamom (Small & Large) in India 2017-18 to 2020-21

(Area: '000 ha, Production: '000 tonnes, Productivity: kg/ha)

State	2017-18			2018-19			2019-20			2020-21		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Small Cardamom												
Karnataka	14.629	1.766	121	1.800	0.207	115	1.939	0.301	155	2.000	0.400	200
Kerala	39.080	18.350	470	38.882	11.535	297	39.697	10.076	254	39.143	20.570	526
Tamil Nadu	3.875	0.351	91	3.838	0.347	90	3.831	0.348	91	4.031	0.366	91
<i>Subtotal</i>	57.584	20.467	355	44.520	12.089	272	45.467	10.725	236	45.174	21.336	472
Large Cardamom												
Arunachal Pradesh				9.901	1.545	156.045	10.909	1.614	148	9.067	3.623	400
Manipur							0.148	0.004	29	0.182	0.004	22
Nagaland	3.623	2.021	558	4.094	2.302	562	4.057	2.307	569	4.020	2.323	578
Sikkim	18.000	5.000	278	21.780	5.224	240	21.793	5.346	245	22.131	5.612	259
Uttarakhand				0.065	0.075	1154	0.067	0.078	1152	0.069	0.078	1145
West Bengal	2.965	0.823	278	2.977	0.830	279	2.992	0.833	278	2.993	0.835	279
<i>Sub total</i>	24.588	7.844	319	38.816	9.976	257	39.966	10.182	255	38.461	12.475	260
Grand Total	82.172	28.311	345	83.336	22.065	265	85.433	20.907	245	83.635	33.811	375

Table 6.3 District-wise area, production and productivity of Cardamom (Small) in Kerala 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Pathanamthitta	665	8	12	665	8	12.03	664	5	8	664	5	8	1328	25	19
Kottayam	85	5	59	85	5	58.82	86	4	47	86	3	35	86	1	12
Idukki	31810	18530	583	31165	16505	529.60	31166	17914	575	30968	11243	363	31166	9785	314
Palakkad	2760	290	105	2755	290	105.26	2754	69	25	2754	67	24	2754	65	24
Malappuram	70	2	29	70	1	14.29	70	1	14	70	1	14	65	1	15
Kozhikode	220	5	23	220	3	13.64	220	2	9	220	1	5	195	1	5
Wayanad	4120	660	160	4120	335	81.31	4120	355	86	4120	215	52	4103	198	48
State	39730	19500	491	39080	17147	438.77	39080	18350	470	38882	11535	297	39697	10076	254

Table 6.4 Trend in export of Cardamom (Small & Large) in India for the last twenty years

Year	Small Cardamom		Large Cardamom		Total	
	Quantity (tonnes)	Value (Rs. in lakhs)	Quantity (tonnes)	Value (Rs. in lakhs)	Quantity (tonnes)	Value (Rs. in lakhs)
2001-02	1031	6168	1577	2392	2608	8559
2002-03	682	4707	1450	2057	2132	6765
2003-04	757	3692	924	1234	1681	4926
2004-05	650	2390	950	1134	1600	3524
2005-06	863	2682	1046	1155	1909	3837
2006-07	650	2236	1500	1695	2150	3931
2007-08	500	2475	1325	1500	1825	3975
2008-09	750	4727	1875	2281	2625	7008
2009-10	1975	16570	1000	1789	2975	18359
2010-11	1175	13216	775	4463	1950	17679
2011-12	4650	36322	935	6830	5585	43152
2012-13	2372	21215	1217	6255	3589	27470
2013-14	3,600	28,381	1,110	7,961	4710	36342
2014-15	3,795	32,347	665	8,404	4460	40751
2015-16	5,500	44,983	600	7,551	6100	52533
2016-17	3,850	42,150	780	8,266	4630	50416
2017-18	5,680	60,908	760	5,647	6440	66555
2018-19	2,850	35,625	860	6,106	3710	41731
2019-20	1,850	42,537	1,310	7,090	3160	49627
2020-21	6,500	110,675	1,325	9,126	7825	119801

Table 6.5 Trend in import of Cardamoms (Small & Large) in India for the last 20 years

Year	Small Cardamom		Large Cardamom		Total	
	Quantity (tonnes)	Value (Rs. in lakhs)	Quantity (tonnes)	Value (Rs. in lakhs)	Quantity (tonnes)	Value (Rs. in lakhs)
2000-01	88	238	4816	3947	4904	4186
2001-02	321	826	4038	4307	4359	5133
2002-03	323	858	4319	4262	4642	5120
2003-04	60	137	4141	4366	4201	4503
2004-05	352	394	4368	4285	4720	4679
2005-06	437	432	4935	4003	5372	4436
2006-07	623	569	6297	5486	6920	6055
2007-08	875	868	5850	4635	6725	5503
2008-09	180	309	5950	4996	6130	5305
2009-10	95	336	6000	6719	6095	7055
2010-11	75	657	4050	10218	4125	10874
2011-12	51	362	2330	10390	2381	10752
2012-13	495	1612	3895	14559	4390	16171
2013-14	1110	3165	3705	21406	4815	24571
2014-15	2285	6575	2750	19060	5035	25635
2015-16	850	4474	850	4474	1700	8948
2016-17	1720	8870	3120	24242	4840	33112
2017-18	685	4379	5670	33109	6355	37488
2018-19	479	4136	3343	17599	3822	21735
2019-20	470	5688	6300	32046	6770	37734

Table 6.6 Country-wise export of Cardamoms (Small & Large) from India

(Quantity: tonnes, Value: Rs in lakhs)

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
CARDAMOM (SMALL)										
U.A.E	493	4571	494	5720	1084	11102	1191	15230	860	23034
U.S.A	119	1272	96	929	214	2310	118	1839	224	5048
Kuwait	198	1540	153	1671	196	2091	660	8034	175	4777
Iran	143	1266	135	1466	302	3469	218	3031	119	2092
Singapore	151	752	14	104	33	229	44	311	132	1386
Australia	25	178	26	240	63	588	22	305	34	639
Canada	33	337	37	284	76	801	25	365	30	550
Oman	10	66	9	97	48	537	50	666	30	535
Uk	7	73	12	163	71	679	28	323	32	349
Saudi Arabia	3969	31918	2500	27470	2923	32189	121	1455	18	94
Total (Incl.Others)	5500	44983	3850	42150	5680	60908	2850	35625	1850	42537
CARDAMOM (LARGE)										
Afghanistan									532	2660
Pakistan	370	4999	600	5982	619	4360	493	3255	471	2667
U.S.A	23	312	25	350	24	251	82	929	46	322
U.K	72	663	82	777	35	261	101	646	49	390
U.A.E	64	720	31	289	16	125	60	428	82	385
Total (Incl.Others)	600	7333	780	8265	760	5647	860	6106	1310	7090

Table 6.7 All India average auction price of Small Cardamom 2015-16 to 2020-21

Price : Rs/quintal

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
August	63394	84055	106371	113201	325155	168724
September	65677	95627	114391	127083	303978	163379
October	61893	101056	93107	119688	265214	146231
November	61019	122056	83716	130020	280344	148793
December	59481	119677	90831	131667	312458	172862
January	58944	135077	96774	143181	380157	161352
February	54429	134909	98598	139753	331277	145533
March	53401	119822	95207	147118	269331	135818
April	63813	115400	91527	181292	NT	119188
May	69727	92874	92737	244296	176993	100421
June	74320	95683	91441	287644	147652	104455
July	79343	95646	102163	343592	161899	107941
Weighted average	62712	108846	95556	152031	290850	147819

Table 6.8 Monthly average price of large cardamom in Gangtok Market**BADADANA (GANGTOK)**

(Price: Rs/quintal)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	162500	132187	62083	58125	47083	
May	167750	130937	68437	54687	54062	43750
June	170625	132000	62490	54000	49167	42500
July	161750	120833	63125	51250	47500	41667
August	143125	113437	60620	54500	47812	40000
September	131562	96000	54525	53750	46667	40000
October	139375	88437	49167	53125	47500	40000
November	141033	78125	52187	55000	47500	41875
December	146875	66250	54750	53437	45625	45000
January	139750	78750	68125	51250	46750	43750
February	137187	75000	64375	48333	45000	41550
March	123563	72812	59750	45312	45833	44167
Mean	147091	98731	59970	52731	47542	42205

Table 6.9 Value of output of Cardamoms, Statewise at 2011-12 prices

Rs. in Lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Arunachal Pradesh	16147	17133	17986	23780	10191	18334	10046
Karnataka	7125	7111	6823	6432	6436	6886	6886
Kerala	65328	65341	89491	102275	124648	109607	117297
Nagaland	405	432	468	496	508	727	728
Sikkim	24396	25456	25589	26318	27312	30296	33146
Tamil Nadu	3179	2961	2961	2920	2484	2856	2840
West Bengal	5416	5416	5491	5642	5717	5717	6168
All India	121996	123851	148809	167863	177295	174422	177110

Table 6.10 Value of output of Cardamoms, Statewise at current prices

Rs. in Lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Arunachal Pradesh	16147	17148	18606	29347	12628	22127	11262
Karnataka	7125	7275	7075	7678	6767	11888	12933
Kerala	65328	72163	76562	117778	115428	152880	166312
Nagaland	405	456	520	579	625	943	1011
Sikkim	24396	29910	32410	36524	40178	49815	59945
Tamil Nadu	3179	3094	2642	3107	2337	3456	3654
West Bengal	5416	5392	6532	6888	7008	6828	9656
All India	121996	135439	144347	201900	184971	247937	264773

7. Garlic

Table 7.1 Trend in area, production and productivity of Garlic for the last twenty years

Year	Area ('000 ha)	Production ('000 tonnes)	Productivity (kg/ha)
2001-02	92.200	386.300	4190
2002-03	112.400	468.310	4166
2003-04	139.500	702.650	5037
2004-05	151.120	679.210	4495
2005-06	150.100	725.920	4836
2006-07	161.450	793.590	4915
2007-08	207.220	1073.720	5182
2008-09	195.070	1010.900	5182
2009-10	196.080	984.310	5020
2010-11	210.540	1051.530	4994
2011-12	262.300	1315.850	5017
2012-13	228.790	1213.410	5304
2013-14	256.346	1418.128	5603
2014-15	257.980	1398.910	5370
2015-16	295.437	1600.302	5417
2016-17	367.547	3034.807	8257
2017-18	409.716	3113.737	7600
2018-19	353.496	2918.948	8257
2019-20	352.644	2926.090	8298
2020-21	390.639	3184.809	8153

∞ Table 7.2 (a) State-wise area, production and productivity of Garlic India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Arunachal Pradesh	0.030	0.007	233	0.030	0.007	233	0.030	0.007	233	0.030	0.007	233
Assam	9.790	46.258	4,725	10.177	70.170	6,895	10.269	60.843	5,925	10.312	61.253	5,940
Bihar	2.075	3.136	1,511	1.903	2.842	1,493	1.945	2.944	1,514	1.866	2.830	1,517
Chhattisgarh	1.279	3.399	2,658	1.064	2.824	2,654	1.185	3.086	2,604	1.300	3.500	2,692
Gujarat	40.600	318.197	7,837	40.600	318.197	7,837	40.600	318.197	7,837	10.125	81.472	8,047
Haryana	4.435	35.830	8,079	4.435	35.830	8,079	4.435	35.830	8,079	5.000	32.000	6,400
Himachal Pradesh	4.143	5.767	1,392	4.608	6.519	1,415	4.404	6.537	1,484	4.429	7.717	1,742
Jammu & Kashmir	0.705	0.597	847	0.711	0.562	790	0.711	0.562	790	0.744	0.609	818
Karnataka	5.191	5.473	1,054	4.725	5.191	1,099	4.661	6.276	1,346	6.534	5.420	830
Kerala	0.146	1.314	9,000	0.075	0.625	8,333	0.062	0.375	6,048	0.077	0.380	4,935
Madhya Pradesh	81.170	424.447	5,229	82.568	421.707	5,107	97.813	424.496	4,340	156.880	1,716.853	10,944
Maharashtra	1.117	8.236	7,373	2.053	12.686	6,179	2.453	14.313	5,835	2.555	14.260	5,581
Manipur	0.170	-	-	0.170	-	-	0.170	-	-	0.170	-	-
Meghalaya	0.280	1.114	3,979	0.280	1.114	3,979	0.280	1.114	3,979	0.280	1.114	3,979
Mizoram	0.040	0.016	400	0.020	0.012	600	0.023	0.012	544	0.023	0.012	544
Nagaland	0.250	2.500	10,000	0.272	2.736	10,059	0.259	2.747	10,606	0.299	3.064	10,247
Orissa	13.265	48.226	3,636	10.900	35.500	3,257	10.900	35.500	3,257	10.900	35.500	3,257
Punjab	5.887	65.599	11,143	5.887	65.599	11,143	6.456	73.741	11,422	6.456	73.741	11,422
Rajasthan	45.015	218.217	4,848	50.170	172.080	3,430	69.123	377.530	5,462	107.971	727.496	6,738
Tamil Nadu	0.506	2.889	5,709	0.449	2.567	5,717	0.581	3.334	5,738	0.781	4.545	5,819
Telangana	0.283	1.502	5,307	0.318	1.683	5,292	0.285	1.009	3,540	0.191	0.451	2,361
Uttar Pradesh	35.529	183.861	5,175	31.627	203.570	6,437	33.599	193.621	5,763	35.151	223.546	6,360
Uttarakhand	1.088	1.543	1,418	1.291	1.934	1,498	1.490	2.167	1,454	1.771	2.936	1,658
West Bengal	3.350	40.000	11,940	3.645	34.955	9,590	3.733	36.068	9,662	3.700	36.100	9,757
Total	256.346	1,418.128	5,532	257.980	1,398.910	5,423	295.437	1,600.302	5,417	367.547	3,034.807	8,257

Table 7.2 (b) State-wise area, production and productivity of Garlic India 2017-18 to 2020-21

(Area: '000 ha, Production : '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2020-21		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Assam	10.450	62.334	5,965	10.450	62.334	5,965	10.659	67.418	6,325	10.765	68.916	6,402
Bihar	1.690	2.560	1,515	1.780	2.675	1,503	1.650	2.452	1,486	1.747	2.629	1,505
Chhattisgarh	1.231	3.450	2,803	1.256	3.547	2,824	1.573	1.680	1,068	1.340	3.045	2,272
Gujarat	19.083	151.012	7,913	10.752	82.999	7,719	12.180	94.557	7,763	16.230	125.286	7,719
Haryana	4.420	51.356	11,619	3.293	42.642	12,949	3.096	41.622	13,444	3.204	31.698	9,893
Himachal Pradesh	3.350	1.275	381	3.596	1.421	395	3.943	2.575	653	3.951	2.579	653
Jammu & Kashmir	0.679	0.609	896	0.679	0.550	810	0.662	0.533	806	0.708	0.572	808
Karnataka	5.584	4.901	878	4.006	26.551	6,628	1.706	8.741	5,124	4.458	11.403	2,558
Kerala	0.071	0.398	5,606	0.070	0.345	4,957	0.191	0.990	5,183	0.203	1.068	5,261
Madhya Pradesh	186.179	1,882.391	10,111	178.157	1,807.953	10,148	183.714	1,869.430	10,176	190.036	1,956.749	10,297
Maharashtra	2.538	14.993	5,907	2.659	13.721	5,160	2.651	13.834	5,218	3.749	22.238	5,932
Manipur	0.170									0.085	-	
Meghalaya	0.280	1.114	3,979							0.115	0.196	1,704
Mizoram	0.023	0.012	526	0.023	0.012	526	0.023	0.012	522	0.023	0.012	526
Nagaland	0.298	3.055	10,252	0.295	2.389	8,097	0.284	2.399	8,447	0.086	0.753	8,756
Orissa	12.441	45.482	3,656	12.441	45.482	3,656	12.441	45.482	3,656	12.056	42.986	3,566
Punjab	6.456	73.741	11,422	7.489	89.085	11,895	7.748	92.642	11,957	8.869	96.767	10,911
Rajasthan	112.893	582.083	5,156	74.826	452.940	6,053	68.012	416.299	6,121	90.926	544.705	5,991
Tamil Nadu	0.760	4.338	5,708	1.449	8.632	5,957	1.433	8.519	5,945	1.272	7.364	5,789
Telangana	0.189	0.265	1,402	0.086	0.220	2,558	0.023	0.108	4,696	0.023	0.108	4,696
Uttar Pradesh	35.219	188.609	5,355	34.313	227.337	6,625	34.638	207.886	6,002	34.749	216.707	6,236
Uttarakhand	1.880	3.452	1,836	1.997	11.046	5,532	2.092	11.442	5,469	2.118	11.516	5,436
West Bengal	3.800	36.300	9,553	3.880	37.068	9,554	3.925	37.469	9,546	3.928	37.512	9,550
Total	409.716	3,113.737	7,600	353.496	2,918.948	8,257	352.644	2,926.090	8,298	390.639	3,184.809	8,153

Table 7.3 District-wise area, production and productivity of Garlic in Rajasthan 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Ajmer	4	9	2250	2	6	3000	2	2	1000	4	10	2500	5	3	600
Alwar	0	0		5	7	1400	1	2	2000	4	2	500			
Baran	2288	94314	4121	40670	283999	6983	41779	237018	5673	23380	161579	6911	23975	173095	7220
Bharatpur	5	50	10000	5	50	10000	5	0	0	24	150	6250	18	90	5000
Bhilwara	595	2253	3787	631	2388	3784	574	2139	3726	456	1733	3800	424	1540	3632
Bikaner	2	2	1000	13	32	2462	7	8	1143	2	2	1000	3	3	1000
Bundi	1577	7104	4505	3152	14620	4638	3345	16896	5051	2006	8931	4452	2023	9049	4473
Chittorgarh	6097	29753	4880	6551	31930	4874	6610	33921	5132	5448	28046	5148			
Churu	2	1	500	3	3	1000				1	4	4000			
Dausa				2	2	1000									
Dholpur				39	240	6154	1	1	1000				4	5	1250
Dungarpur	10	50	5000	6	30	5000	14	70	5000	17	85	5000	14	70	5000
Ganganagar	22	22	1000	85	1137	13376	85	1153	13565	33	500	15152	31	620	20000
Hanumangarh	19	86	4526	29	50	1724	48	89	1854	11	35	3182	14	22	1571
Jaipur	25	41	1640	15	21	1400	24	29	1208	15	22	1467	38	42	1105
Jalore	2	3	1500	4	7	1750	3	6	2000	7	22	3143	4	15	3750
Jhalawar	13727	82362	6000	23240	139440	6000	27763	83290	3000	19411	48528	2500	18322	45805	2500
Jhunjhunu	441	882	2000	380	758	1995	351	702	2000	330	660	2000	233	464	1991
Jodhpur	2737	14232	5200	2551	38265	15000	2452	2551	1040	4164	62460	15000	2798	41970	15000
Karauli	1	2	2000	4	10	2500	1	4	4000	8	26	3250			
Kota	14094	98658	7000	23635	153628	6500	22157	144021	6500	13093	89032	6800	13788	93738	6799
Nagaur	100	1343	13430	88	1140	12955	105	1302	12400	8	671	83875	61	837	13721
Pali	3	3	1000	7	6	857	10	10	1000	1	15	15000	5	12	2400
Pratapgarh	6446	45122	7000	6518	58662	9000	7271	58168	8000	6193	49544	8000	6060	48480	8000
Rajsamand	147	441	3000	111	222	2000	144	132	917	82	246	3000	101	143	1416
S.Madhopur	18	36	2000	57	106	1860	12	24	2000	9	18	2000	16	32	2000
Sikar	44	424	9636	30	299	9967	35	303	8657	41	400	9756	15	92	6133
Sirohi	6	5	833	12	132	11000	0	0		3	33	11000	5	55	11000
Tonk	14	4	286	57	14	246	16	4	250	7	2	286	8	2	250
Udaipur	73	284	3890	74	292	3946	78	238	3051	68	184	2706	47	115	2447
Rajasthan	69099	377486	5463	107976	727496	6738	112893	582083	5156	74826	452940	6053	68012	416299	6121

Table 7.4 District-wise area, production and productivity of Garlic in Uttar Pradesh 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Saharanpur	1	6	6000	21	134	6381	16	86	5375	8	53	6625	10	60	6000
Muzaffarnagar	35	202	5771	27	172	6370	29	155	5345	35	232	6629	33	198	6000
Shamli	36	207	5750	49	312	6367	138	739	5355	98	649	6622	79	474	6000
Bulandshahar	48	277	5771	60	382	6367	35	187	5343	36	238	6611	39	234	6000
Hapur	0	0		1	6	6000	0	0		0	0		0	0	
Aligarh	102	588	5765	201	1278	6358	223	1194	5354	213	1411	6624	212	1272	6000
Hathras	58	334	5759	160	1018	6363	142	761	5359	113	749	6628	131	786	6000
Etah	4733	27275	5763	4276	27194	6360	4476	23970	5355	4499	29807	6625	4460	26768	6002
Kanshi Ram Nagar	3468	19985	5763	3640	23149	6360	3626	19418	5355	3802	25190	6625	3689	22140	6002
Agra	5	29	5800	6	38	6333	20	107	5350	13	86	6615	6	36	6000
Mathura	8	46	5750				2	11	5500	2	13	6500	7	42	6000
Firozabad	4083	23529	5763	4433	28192	6360	4386	23489	5355	4301	28496	6625	4226	25363	6002
Mainpuri	8398	48395	5763	7970	50686	6360	7941	42527	5355	7822	51824	6625	7814	46897	6002
Bareilly	75	432	5760	102	649	6363	101	541	5356	90	596	6622	90	540	6000
Badaun	799	4604	5762	800	5088	6360	758	4059	5355	773	5121	6625	639	3835	6002
Shajhanpur	64	369	5766	118	750	6356	109	584	5358	95	629	6621	94	564	6000
Pilibhit	0	0					17	91	5353	1	7	7000	0	0	
Moradabad	0	0		11	70	6364	8	43	5375	9	60	6667	8	48	6000
Rampur	0			150	954	6360	139	744	5353	123	815	6626	111	666	6000
Shambhal	333	1919	5763	243	1545	6358	227	1216	5357	246	1630	6626	247	1483	6004
Farukkabhad	1164	6708	5763	1273	8096	6360	1253	6710	5355	1238	8202	6625	1252	7514	6002
Kannauj	870	5014	5763	1473	9368	6360	1505	8060	5355	1386	9183	6626	1473	8841	6002
Etawah	3884	22382	5763	4124	26227	6360	4153	22241	5355	3980	24344	6117	4218	25315	6002
Aoraiyya	2485	14320	5763	2437	15498	6359	2499	13383	5355	2315	17363	7500	2442	14656	6002
Kanpur City	53	305	5755	88	560	6364	90	482	5356	79	523	6620	71	426	6000
Kanpur Dehat	183	1055	5765	206	1310	6359	192	1028	5354	189	1252	6624	210	1261	6005
Fatehpur	706	4068	5762	1131	7193	6360	923	4943	5355	917	6075	6625	899	5396	6002
Allahabad	2	12	6000	16	102	6375	16	86	5375	16	106	6625	13	78	6000
Kausambhi	149	859	5765	107	680	6355	104	557	5356	112	742	6625	115	690	6000
Pratapgarh	40	230	5750	15	95	6333	26	139	5346	29	192	6621	15	90	6000
Jhansi	0	0		2	13	6500	3	16	5333	3	20	6667	2	12	6000

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Lalitpur	3	17	5667	8	51	6375	4	22	5500	4	26	6500	4	24	6000
Jalaun	1	6	6000	0			1	5	5000	1	7	7000	1	6	6000
Hamirpur				5	32	6400	5	27	5400	2	13	6500	4	24	6000
Mahoba	2	11	5500	5	32	6400	2	11	5500	4	26	6500	3	18	6000
Banda	22	127	5773	1	6	6000	3	16	5333	6	40	6667	5	30	6000
Varanasi	4	23	5750	4	25	6250	5	27	5400	4	26	6500	4	24	6000
Chandauli	2	12	6000	0			1	5	5000	1	7	7000	1	6	6000
Ghazipur	8	46	5750	9	57	6333	10	54	5400	9	60	6667	11	66	6000
Jaunpur	16	92	5750	19	121	6368	19	102	5368	19	126	6632	19	114	6000
Sonbhadra	12	69	5750	19	121		15	80	5333	17	113	6647	13	78	6000
Azamgarh	19	110	5789	34	216	6353	37	198	5351	36	239	6639	30	180	6000
Mau	1	6	6000	1	6	6000	1	5	5000	1	7	7000	1	6	6000
Ballia	74	426	5757	79	502	6354	92	493	5359	90	596	6622	64	384	6000
Gorakhpur	2	12	6000	1	6	6000	1	5	5000	1	7	7000	1	6	6000
Maharajganj	0	0		0			0	0		5	33	6600	0	0	
Deoria	4	23	5750	8	51	6375	7	37	5286	8	53	6625	7	42	6000
Kushi Nagar	8	46	5750	5	32	6400	5	27	5400	5	33	6600	4	24	6000
Basti	13	75	5769	38	242	6368	35	187	5343	35	232	6629	38	228	6000
Sidharthnagar	54	311	5759	70	445	6357	62	332	5355	62	411	6629	54	324	6000
Sant Kabir Nagar	5	29	5800	1	6	6000	4	21	5250	3	20	6667	1	6	6000
Lucknow	70	403	5757	80	509	6363	105	562	5352	60	398	6633	104	624	6000
Unnao	149	859	5765	178	1132	6360	191	1023	5356	125	828	6624	194	1165	6005
Raebareli	201	1158	5761	180	1145	6361	179	959	5358	182	1206	6626	186	1116	6000
Sitapur	178	1026	5764	162	1030	6358	188	1007	5356	149	987	6624	183	1098	6000
Hardoi	157	905	5764	187	1189	6358	176	943	5358	118	782	6627	157	942	6000
Kheri	81	467	5765	40	254	6350	50	268	5360	60	398	6633	35	210	6000
Faizabad	133	766	5759	112	712	6357	104	557	5356	103	682	6621	134	804	6000
Ambedkarnagar	6	34	5667	64	407	6359	69	370	5362	78	517	6628	99	594	6000
Sultanpur	35	202	5771	33	210	6364	35	187	5343	35	232	6629	39	234	6000
Barabanki	325	1873	5763	373	2372	6359	369	1976	5355	275	1822	6625	362	2173	6003
C.S.M.Nagar	1	6	6000	49	312	6367	28	150	5357	28	185	6607	32	192	6000
Gonda	34	196	5765	53	337	6358	53	284	5358	47	311	6617	47	282	6000
Balrampur	0	0		31	197	6355	29	155	5345	25	166	6640	33	198	6000
Bahraich	174	1003	5764	145	922	6359	156	835	5353	158	1047	6627	147	883	6007
Shravasti	23	132	5739	17	108	6353	21	112	5333	14	93	6643	16	96	6000
Uttar Pradesh	33599	193621	5763	35151	223546	6360	35219	188609	5355	34313	227337	6625	34638	207886	6002

Table 7.5 District-wise area, production and productivity of Garlic in Gujarat from 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Surat							6	31	5167	10	52	5200			
Anand	900	4311	4790	548	3096.2	5650									
Dang										11	58	5273			
Kheda	100	515	5150	44	253	5750	100	541	5410	95	528	5558	164	912	5561
Panchmahal	200	1402	7010	100	700	7000	175	1225	7000	70	497	7100	250	1800	7200
Dahod	1000	8150	8150	796	6941.12	8720	634	5680	8959	500	4450	8900	765	6847	8950
Narmada	100	390	3900												
Vadodara							44	251	5705	40	228	5700	22	126	5727
Mahisagar				103	710.7	6900	300	2076	6920	263	1815	6901	265	1831	6909
Banaskantha							47	212	4511	100	452	4520			
Patan				100	675	6750	1	6	6000	0	0				
Mehsana				124	601.4	4850	259	1101	4251	184	1086	5902	231	1363	5900
Sabarkantha				101	733.26	7260	104	757	7279	152	1102	7250	45	324	7200
Aravalli				112	784	7000	150	1050	7000	157	1083	6898	170	1182	6953
Kutch	1000	3500	3500	214	1070	5000	220	1100	5000	180	900	5000	50	250	5000
Surendranagar	1100	9130	8300	200	1667	8335	1426	11907	8350	285	2366	8302	255	2117	8302
Rajkot	14300	136279	9530	1895	17623.5	9300	2936	21300	7255	969	7558	7800	4430	35794	8080
Jamnagar	7900	61974	7845	510	4090.2	8020	762	6111	8020	502	4603	9169	715	6557	9171
Porbandar	400	3237	8093	60	800	13333	50	400	8000	0	0		40	320	8000
Junagadh	10000	65400	6540	1380	9936	7200	4179	30131	7210	3575	26455	7400	1522	10989	7220
Amreli	3000	20609	6870	800	6016	7520	799	5785	7240	513	3714	7240	901	6523	7240
Bhavnagar	600	3300	5500	98	690.9	7050	115	815	7087	96	674	7021	350	2482	7091
Morbi				2200	20240	9200	5303	49506	9335	1300	12233	9410	852	8017	9410
Botad							49	386	7878	2	16	8000	17	136	8000
Gir Somnath				640	4544	7100	1165	8388	7200	1500	10920	7280	700	3905	5579
Devbhumi Dwaraka				100	300	3000	312	2496	8000	316	2528	8000	315	2520	8000
Gujarat	40600	318197	7837	10125	81472.28	8047	19083	151012	7913	10752	82999	7719	12180	94557	7763

Table 7.6 District-wise area, production and productivity of Garlic in Madhya Pradesh 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Aagar	2039	2644	1297	2662	34606	13000	6500	58500	9000	6500	58500	9000	6555	58995	9000
Alirajpur	143	319	2231	1038	10380	10000	1060	11554	10900	1115	12165	10910	1210	13237	10940
Anuppur	42	162	3857	573	4751	8291	612	5202	8500	672	6048	9000	1020	9180	9000
Ashoknagar	42	149	3548	216	2808	13000	216	2808	13000	216	2850	13194	216	2850	13194
Badwani	73	339	4644	196	1568	8000	322	2578	8000	333	1228	3688	159	1357	8535
Balaghat	166	552	3325	138	1493	10819	143	1189	8315	146	2664	18309	358	2860	8000
Betul	584	2849	4878	316	3792	12000	1040	12480	12000	316	3712	11747	402	4744	11801
Bhind	5	5	1000	282	3666	13000	288	3168	11000	288	3744	13000	290	3772	13007
Bhopal	361	919	2546	908	16344	18000	781	9117	11673	746	10162	13622	798	10220	12807
Burhanpur	13	52	4000	60	900	15000	60	900	15000	65	975	15000	70	1050	15000
Chhatarpur	98	344	3510	3227	38336	11880	192	834	4344	191	802	4199	198	1632	8240
Chhintwara	4054	25954	6402	4347	78246	18000	4469	33518	7500	4469	33518	7500	4469	33517	7500
Damoh	140	464	3314	485	7275	15000	525	5775	11000	530	5830	11000	542	5962	11000
Datiya	38	74	1947	395	3950	10000	400	4000	10000	401	4010	10000	411	4110	10000
Dawas	5635	37415	6640	3002	23508	7831	10794	89915	8330	10794	89915	8330	10800	89965	8330
Dhar	7556	19306	2555	2844	22754	8000	15321	158572	10350	15451	159589	10329	15501	160655	10364
Dindori	12	5	417												
Guna	51	236	4627	1255	15688	12500	1268	15850	12500	1280	16000	12500	1320	16500	12500
Gwalior	10	7	700	400	5200	13000	400	5200	13000	406	5278	13000	410	5330	13000
Harda	9	89	9889	252	2650	10516	255	2689	10545	305	3216	10544	305	3216	10544
Hoshangabad	50	275	5500	410	4510	11000	223	2448	11000	211	2291	10881	211	2291	10881
Indore	4052	18904	4665	11200	134400	12000	12450	161850	13000	13095	170235	13000	13500	175500	13000
Jabalpur	9	45	5000	1132	11320	10000	1150	8625	7500	1208	7849	6500	1208	9053	7497
Jhabua	288	774	2688	475	4750	10000	515	6180	12000	515	7725	15000	425	6375	15000
Katani	78	283	3628	784	8263	10540	785	8271	10540	786	8282	10540	790	8326	10540
Khandwa	39	462	11846	60	1020	17000	65	1105	17000	65	1105	17000	68	1160	17059
Khargone	56	91	1625	350	2975	8500	87	740	8506	95	808	8500	94	799	8500

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District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Mandla	13	89	6846	54	542	10038	61	615	10059	64	648	10099	69	695	10106
Mandsaur	14811	104550	7059	14834	148340	10000	16713	167130	10000	16714	167140	10000	18211	182110	10000
morena	2	88	44000	160	1968	12300	162	1995	12315	163	2005	12301	163	2010	12331
Narasimhapur	232	1053	4539	774	6943	8970	774	6943	8970	795	6988	8790	795	6988	8790
Nimach	11354	42981	3786	35000	315000	9000	34500	310500	9000	25000	225000	9000	22000	198000	9000
Panna	389	470	1208	165	540	3273	168	1248	7429	168	1248	7429	168	1248	7429
Raisen	90	212	2356	580	3484	6007	580	3884	6697	580	3884	6697	580	3884	6697
Rajgarh	3153	6265	1987	4240	40280	9500	4310	40945	9500	4340	41230	9500	4981	47320	9500
Ratlam	16107	74395	4619	25752	275720	10707	27572	275720	10000	26594	252523	9495	27682	261769	9456
Rewa	92	250	2717	1898	21827	11500	124	1426	11500	807	9281	11500	1011	11627	11500
Sagar	966	5423	5614	5000	125000	25000	4600	52900	11500	4927	58885	11951	5501	65737	11950
Satna	253	490	1937	791	11711	14808	616	9000	14606	680	7510	11038	777	8770	11287
Sehore	2952	5689	1927	2185	26111	11950	4004	40035	10000	4025	40250	10000	4860	48564	9993
Seoni	354	1851	5229	338	3518	10408	342	3540	10351	360	3719	10331	368	3802	10333
Shahdol	98	288	2939	521	7161	13745	490	5922	12085	492	5988	12171	630	7667	12170
Shajapur	4978	9568	1922	7200	64263	8925	5520	49238	8920	5520	49238	8920	5535	49372	8920
Sheopur	10	635	63500	820	10250	12500	820	6560	8000	820	6560	8000	900	7200	8000
Shivpuri	404	701	1735	3535	70700	20000	1776	13320	7500	1796	13470	7500	2120	13470	6354
Sidhi	23	94	4087	340	1813	5332	375	2000	5333	415	2240	5398	868	4683	5395
Singaroli	109	244	2239	127	1410	11100	160	1920	12000	200	2450	12250	382	4699	12300
Tikamgarh	119	340	2857	583	2624	4500	265	1855	7000	303	2879	9500	310	2945	9500
Ujjain	15327	55885	3646	14086	169032	12000	21369	261984	12260	22224	275575	12400	23447	293082	12500
Umariya	58	178	3069	40	280	7000	230	1610	7000	245	1715	7000	300	2100	7000
Vidisha	238	26	109	850	10557	12419	728	9035	12410	727	9029	12419	728	9035	12410
State Total	97775	424483	4341	156880	1764225	11246	186179	1882391	10111	178157	1807953	10148	183714	1869430	10176
Non-reported	38	13	342	38	13	342	38	13	342	38	13	342	38	13	342
State total	97813	424496	4340	156918	1764238	11243	186217	1882404	10109	178195	1807966	10146	81170	1869443	5000

Table 7.7 Trend in export and import of Garlic in India for the last twenty years

Year	Export		Import	
	Quantity (tonnes)	Value (Rs in lakhs)	Quantity (tonnes)	Value (Rs in lakhs)
2001-02	1,106	410	36370	7410
2002-03	1,539	699	40650	6032
2003-04	3,691	1,421	18043	2259
2004-05	2,250	561	19907	2706
2005-06	34,688	4,798	2,771	587
2006-07	11,500	2,128	1,073	192
2007-08	675	400	4,050	552
2008-09	760	350	185	48
2009-10	10,750	3,042	125	74
2010-11	17,300	6,977	115	116
2011-12	2,200	1,416	310	220
2012-13	22,872	6,868	95	105
2013-14	25,650	8,387	80	99
2014-15	21,610	8,183	225	141
2015-16	23,085	15,959	1810	812
2016-17	32,200	30,712	80	208
2017-18	46,980	30,936	450	988
2018-19	29,500	17,110	445	719
2019-20	22,280	17,183	2750	953
2020-21	17,950	15,630	NA	NA

Table 7.8 Country-wise export of Garlic from India

(Quantity: tonnes, Value: Rs in lakhs)

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
Thailand	2957	1964	1464	3274	3219	2666	4951	1609	4907	2507
U.S.A	342	392	624	1275	1185	1768	1514	2268	1387	2354
Canada	108	93	408	711	942	1430	697	1367	129	147
Bangladesh	358	161	7126	2595	5744	1966	3627	1256	1694	961
Vietnam (South)	2405	1696	1959	1901	5455	2988	2111	862	1264	827
Mexico	387	378	527	949	895	896	1541	1082	600	476
Malaysia	3222	1918	8356	5403	6231	1833	5852	3258	936	468
UAE	894	810	804	833	1291	1042	813	739	1077	1058
Nepal	682	607	833	1601	1362	1174	1269	618	1424	1038
South Africa	619	529	721	1105	859	683	739	458	875	590
China	51	54	395	590	1297	1115	1055	501	718	547
Total (Incl. Others)	23085	15959	32200	30712	46980	30936	29500	17110	22280	17183

Table 7.9 Monthly average price of Garlic in Chennai 2015-16 to 2020-21

Rs/quintal

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	4063	5438	4300	2250	4875	4500
May	4650	5750	4487	2250	5500	NA
June	6350	6150	4900	1950	6112	NA
July	6160	10000	4875	3000	5875	6000
August	7000	11625	4850	3900	6700	11000
September	7063	11300	5250	4000	11437	11500
October	8700	10500	6125	4500	16500	11040
November	11125	12750	6250	3950	16550	9687
December	13187	12440	3750	2875	16500	8450
January	8938	10812	3500	3687	15900	8500
February	5563	8125	2937	4362	13875	8187
March	5250	4400	2460	3900	4500	6562
Mean	7337	9108	4474	3385	10360	8543

Table 7.10 Value of output of Garlic, Statewise at 2011-12 prices

Rs in lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Assam	21146	32795	33584	24189	37226	27096	29803
Bihar	1453	1894	1255	1894	2859	1392	1212
Chhattisgarh	1124	995	1076	912	1140	1108	1025
Gujarat	66375	70453	63480	80797	80797	20098	38345
Haryana	2386	7364	7475	6700	7364	6577	6577
Himachal Pradesh	19543	19361	20826	22972	3149	2600	2859
Jammu & Kashmir	334	317	334	313	397	339	339
Jharkhand	578	319	0	0	0	0	0
Karnataka	1590	2240	2043	1938	1937	2344	1829
Kerala	1148	533	1064	506	300	308	322
Madhya Pradesh	64800	64800	64800	64800	101880	97200	97200
Maharashtra	20110	20110	20110	20110	6380	7194	7018
Mizoram	2	0	3	3	3	3	3
Nagaland	32	32	525	595	607	626	642
Odisha	9016	9046	9034	8806	6650	6650	6650
Punjab	20778	30307	30307	36251	36769	47218	36770
Rajasthan	24140	18713	22111	17415	38213	73645	58924
Tamil Nadu	1319	1392	1489	1323	1718	2343	2236
Telangana	255	274	412	462	277	277	73
Uttar Pradesh	29688	27975	31939	28711	28341	29615	27611
Uttarakhand	1866	328	285	328	411	462	461
West Bengal	21156	21467	21467	21754	22444	22463	22587
All India	308838	330714	333619	340778	378864	349558	342487

Table 7.11 Value of output of Garlic, Statewise at current prices prices

Rs in lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Assam	21146	32795	34033	30148	29790	34331	37761
Bihar	1453	1894	1284	2651	5648	3175	3871
Chhattisgarh	1124	1555	2955	3417	5978	5812	2289
Gujarat	66375	55800	54778	104443	146198	44651	41578
Haryana	2386	2820	5248	6333	9875	10052	10052
Himachal Pradesh	19543	7415	36571	40338	7803	9330	6903
Jammu & Kashmir	334	320	400	396	713	412	357
Jharkhand	578	303	0	0	0	0	0
Karnataka	1590	1812	2522	2805	3559	3615	1787
Kerala	1148	533	1183	563	470	557	584
Madhya Pradesh	64800	69428	82350	91607	207644	207619	249290
Maharashtra	20110	16316	17130	18647	8145	11578	6465
Mizoram	2	0	3	4	4	5	6
Nagaland	32	36	650	776	867	957	1130
Odisha	9016	11790	11915	13182	18689	21223	21256
Punjab	20778	28927	28980	32720	33654	42764	33213
Rajasthan	24140	18713	61730	69888	216349	524804	249766
Tamil Nadu	1319	1158	1326	1841	2909	4996	4660
Telangana	255	399	664	743	612	693	150
Uttar Pradesh	29688	27975	63185	66394	108871	137157	54910
Uttarakhand	1866	383	428	637	1140	818	500
West Bengal	21156	14912	21427	21478	31502	39820	24611
All India	308838	295284	428759	509011	840421	1104368	751139

8. Speed Spices

Table 8.1 Trend in area, production and productivity of Coriander and Cumin for the last twenty years

Year	Coriander			Cumin		
	Area (‘000ha)	Production (‘000 tonnes)	Productivity (kg/ha)	Area (‘000ha)	Production (‘000 tonnes)	Productivity (kg/ha)
2001-02	429.200	319.400	744	526.636	206.417	392
2002-03	285.850	174.314	610	521.252	134.760	259
2003-04	483.520	389.750	806	430.130	202.610	471
2004-05	348.861	248.311	712	313.540	148.600	474
2005-06	340.350	223.397	656	349.020	158.350	454
2006-07	329.776	239.345	726	363.718	129.773	357
2007-08	384.010	230.247	600	429.377	172.466	402
2008-09	526.298	453.648	862	525.643	281.533	536
2009-10	529.252	491.716	929	515.612	302.444	587
2010-11	492.955	395.632	803	624.196	334.301	536
2011-12	535.431	506.417	946	842.561	461.110	547
2012-13	397.718	384.811	968	868.355	514.565	593
2013-14	455.760	341.883	750	944.440	598.500	634
2014-15	640.656	579.556	905	703.070	373.790	532
2015-16	624.986	572.662	916	808.020	503.270	623
2016-17	673.698	864.371	1283	780.924	500.359	641
2017-18	544.239	721.394	1326	966.169	689.420	714
2018-19	469.986	599.478	1276	1027.940	700.647	682
2019-20	528.970	700.813	1325	1276.283	912.041	715
2020-21	661.773	831.918	1257	1241.064	856.199	690

Table 8.2 Trend in area, production and productivity of Fennel and fenugreek for the last twenty years

Year	Fennel			Fenugreek		
	Area ('000ha)	Production ('000 tonnes)	Productivity (kg/ha)	Area ('000ha)	Production ('000 tonnes)	Productivity (kg/ha)
2001-02	40.030	38.714	967	56.000	66.000	1179
2002-03	23.006	27.790	1208	50.590	64.221	1269
2003-04	43.144	51.933	1204	63.950	79.008	1235
2004-05	22.699	27.800	1225	49.040	61.090	1246
2005-06	43.470	61.650	1418	32.661	35.708	1093
2006-07	48.820	65.723	1346	48.161	53.815	1117
2007-08	54.229	67.726	1249	55.189	55.505	1006
2008-09	73.166	113.584	1552	72.728	102.127	1404
2009-10	51.676	83.909	1624	79.860	113.211	1418
2010-11	81.603	124.721	1528	92.391	122.953	1331
2011-12	100.752	144.189	1431	93.252	117.370	1259
2012-13	55.736	94.701	1699	110.819	126.456	1141
2013-14	39.125	60.111	1536	97.268	110.697	1138
2014-15	54.729	85.551	1563	143.848	144.246	1003
2015-16	75.997	129.354	1702	200.669	247.357	1233
2016-17	89.544	148.561	1659	220.669	310.067	1405
2017-18	65.805	103.827	1578	149.457	215.927	1445
2018-19	90.460	157.479	1741	119.783	183.912	1535
2019-20	82.731	139.762	1689	126.294	182.170	1442
2020-21	78.976	127.160	1610	121.327	202.631	1670

Table 8.3 Trend in area, production and productivity of Ajowan for the last twenty years

Year	Area ('000 ha)	Production ('000 tonnes)	Productivity (kg/ha)
2001-02	13.884	9.411	678
2002-03	10.375	11.630	1121
2003-04	13.740	12.950	943
2004-05	15.381	9.528	619
2005-06	14.534	4.429	305
2006-07	16.488	9.872	599
2007-08	19.286	11.115	576
2008-09	28.394	21.465	756
2009-10	25.757	21.348	829
2010-11	29.426	20.659	702
2011-12	45.703	28.050	614
2012-13	34.564	23.655	684
2013-14	30.142	17.848	592
2014-15	26.738	16.631	622
2015-16	26.599	16.005	602
2016-17	26.599	16.005	602
2017-18	35.418	24.207	683
2018-19	35.886	19.618	547
2019-20	41.134	28.973	704
2020-21	28.997	21.841	753

Table 8.4 (a) State-wise area, production and productivity of Coriander in India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	8.451	5.018	594	40.178	20.784	517	25.338	10.398	410	4.303	2.369	551
Assam	27.100	26.693	985	28.853	53.955	1870	28.953	29.676	1025	28.995	29.777	1027
Bihar	2.372	2.167	914	2.520	2.310	917	2.572	2.356	916	2.839	2.537	894
Chhattisgarh	2.870	0.846	295	2.240	0.650	290	2.424	0.700	289	2.573	0.762	296
Gujarat	44.060	64.380	1461	92.100	143.378	1557	88.600	138.799	1567	121.199	189.518	1564
Haryana	2.433	4.413	1814	2.433	4.413	1814	2.433	4.413	1814	2.450	4.450	1816
Himachal Pradesh	0.144	0.043	299	0.172	0.053	308	0.118	0.194	1644	0.118	0.194	1644
Karnataka	2.648	0.822	310	4.339	1.469	339	4.494	1.927	429	1.778	0.770	433
Madhya Pradesh	144.022	94.860	659	165.183	108.487	657	203.950	108.487	532	275.762	387.428	1405
Maharashtra	2.147	3.290	1532	1.792	2.939	1640	1.708	9.681	5668	1.838	3.998	2175
Meghalaya	0.012	0.051	4250	0.012	0.051	4250	0.012	0.051	4250	0.012	0.051	4250
Mizoram	0.050	0.016	320	0.060	0.020	333	0.062	0.020	318	0.062	0.020	318
Nagaland	0.080	0.160	2000	0.089	0.174	1955	0.076	0.134	1763	0.018	0.024	1333
Orissa	20.222	11.066	547	19.795	10.867	549	19.603	10.768	549	19.608	10.805	551
Rajasthan	182.725	117.084	641	249.465	198.887	797	212.725	227.203	1068	181.712	206.960	1139
Tamil Nadu	7.527	2.614	347	9.230	8.048	872	11.084	6.569	593	9.120	1.470	161
Telangana	1.378	0.978	710	1.597	0.382	239	1.009	0.390	387	1.945	1.232	633
Uttar Pradesh	6.615	3.582	541	8.162	4.180	512	7.474	2.575	345	7.002	3.652	522
Uttarakhand	0.904	3.800	4204	0.904	3.800	4204	0.904	3.800	4204	0.904	3.800	4204
West Bengal				11.532	14.709	1275	11.447	14.521	1269	11.460	14.555	1270
Total	455.760	341.883	750	640.656	579.556	905	624.986	572.662	916	673.698	864.371	1283

Table 8.4 (b) State-wise area, production and productivity of Coriander in India 2017-18 to 2020-21

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2020-21		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	2.584	1.637	634	1.569	0.360	229	1.119	0.553	494	0.747	0.707	946
Assam	29.749	30.790	1035	29.749	30.790	1035	30.548	32.839	1075	60.698	35.763	589
Bihar	2.078	1.886	908	2.539	2.298	905	2.229	2.010	902	2.421	2.183	901
Chhattisgarh	2.847	0.774	272	2.806	0.774	276	3.019	0.905	300	2.811	0.804	286
Gujarat	74.998	116.812	1558	30.136	45.418	1507	86.175	129.149	1499	141.004	212.507	1507
Haryana	2.211	5.287	2391	2.284	5.904	2585	2.164	6.291	2907	2.277	5.483	2408
Himachal Pradesh	0.104	0.014	135	0.128	0.028	219	0.130	0.066	508	0.132	0.065	492
Karnataka	1.778	0.770	433	2.918	2.607	893	0.608	0.300	493	0.600	0.300	500
Madhya Pradesh	279.837	390.548	1396	279.980	378.233	1351	292.288	394.758	1351	296.279	401.350	1355
Maharashtra	1.839	4.243	2307	1.784	4.550	2550	1.797	4.326	2407	1.749	3.894	2329
Manipur				0.010	0.005	500	0.010	0.005	500	0.005	0.003	500
Meghalaya	0.012	0.051	4250									
Mizoram	0.075	0.022	291	0.075	0.022	291	0.710	0.021	30	0.230	0.021	91
Nagaland	0.050	0.096	1920	0.054	0.084	1556	0.051	0.079	1549	0.015	0.020	1333
Orissa	19.610	10.863	554	19.610	10.863	554	19.610	10.863	554	19.610	10.848	553
Rajasthan	97.797	130.197	1331	68.971	89.549	1298	60.039	89.341	1488	102.130	129.012	1263
Tamil Nadu	8.056	4.111	510	6.427	2.526	393	7.397	3.675	497	9.717	4.184	431
Telangana	1.220	1.002	821	1.012	1.011	999	0.633	0.587	927	1.203	0.958	797
Uttar Pradesh	6.790	3.541	522	6.635	5.259	793	7.090	5.116	722	6.766	4.428	654
Uttarakhand	0.904	3.800	4204	1.434	4.055	2828	1.458	4.148	2845	1.470	4.179	2843
West Bengal	11.700	14.950	1278	11.865	15.142	1276	11.895	15.780	1327	11.910	15.209	1277
Total	544.239	721.394	1326	469.986	599.478	1276	528.970	700.813	1325	661.773	831.918	1257

Table 8.5 (a) State-wise area, production and productivity of Cumin India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Gujarat	454.900	364.650	802	266.700	251.430	942.7	295.400	300.940	1018.8	278.751	291.488	1,046
Himachal Pradesh	0.080	0.020	250	0.080	0.020	250.0	0.080	0.020	250.0	0.078	0.021	269
Madhya Pradesh	0.640									0.481	0.450	935
Rajasthan	488.820	233.820	478	434.780	120.830	277.9	511.080	200.850	393.0	500.142	206.939	414
Uttar Pradesh	0.000	0.010		0.000	0.010		0.000	0.010		0.002	0.005	2,500
West Bengal				1.510	1.500	993.4	1.460	1.450	993.2	1.470	1.456	990
Total	944.440	598.500	634	703.070	373.790	531.7	808.020	503.270	622.8	780.924	500.359	641

Table 8.5 (b) State-wise area, production and productivity of Cumin India 2017-18 to 2020-21

(Area: '000 ha, Production: '000 tonnes, Yield kg/ha)

State	2017-18			2018-19			2019-20			2020-21(3rd Adv. Est)		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Gujarat	382.719	384.469	1005	349.552	319.862	915	494.238	481.556	974	469.030	429.192	915
Himachal Pradesh	0.078	0.021	269	0.080	0.020	250	0.080	0.020	250	0.079	0.021	259
Karnataka				0.001	0.001	500	0.097	0.101	1041	0.097	0.101	1041
Madhya Pradesh	0.508	0.541	1065	0.539	0.600	1112	0.539	0.651	1207	0.300	0.339	1130
Rajasthan	581.364	302.928	521	676.240	378.654	560	779.775	428.146	549	770.000	425.000	552
Uttar Pradesh	0.002	0.005	2500	0.002	0.010	5000	0.002	0.007	3500	0.002	0.007	3375
West Bengal	1.470	1.456	990	1.526	1.501	984	1.552	1.560	1005	1.556	1.540	990
Total	966.169	689.420	714	1027.940	700.647	682	1276.283	912.041	715	1241.064	856.199	690

Table 8.6 (a) State-wise area, production and productivity of Fennel India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Gujarat	22.1	45.02	2037	30.2	63.845	2114	45.4	96.773	2132	40.909	87.822	2147
Haryana	0.269	0.165	613	0.269	0.165	613	0.269	0.165	613	0.300	0.200	667
Madhya Pradesh	0.941			0.937			1.006			1.431	2.521	1762
Rajasthan	15.161	14.277	942	21.682	19.905	918	27.587	30.717	1113	45.195	56.238	1244
Uttar Pradesh	0.654	0.649	992	0.611	0.603	987	0.713	0.667	935	0.694	0.760	1095
West Bengal				1.03	1.033	1003	1.022	1.032	1010	1.015	1.020	1005
Total	39.125	60.111	1536	54.729	85.551	1563	75.997	129.354	1702	89.544	148.561	1659

Table 8.6 (b) State-wise area, production and productivity of Fennel India 2017-18 to 2020-21

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2020-21		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Gujarat	38.130	79.243	2078	56.416	117.340	2080	52.802	109.026	2065	42.038	87.435	2080
Haryana	0.053	0.061	1151	0.077	0.117	1519	0.219	0.737	3365	0.219	0.737	3365
Karnataka	0.000	0.000		0.035	0.079	2257	0.111	0.452	4072	0.111	0.452	4072
Madhya Pradesh	1.480	2.724	1840	1.497	2.787	1862	1.562	2.774	1776	1.323	2.380	1799
Rajasthan	24.366	19.953	819	30.678	35.290	1150	26.250	25.621	976	31.622	34.276	1084
Tamil Nadu	0.023									0.006		0
Uttar Pradesh	0.728	0.796	1093	0.719	0.803	1117	0.735	0.075	102	0.715	0.791	1106
West Bengal	1.025	1.050	1024	1.038	1.063	1024	1.052	1.077	1024	2.942	1.090	370
Total	65.805	103.827	1578	90.460	157.479	1741	82.731	139.762	1689	78.976	127.160	1609

Table 8.7 (a) State-wise area, production and productivity of Fenugreek India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Madhya Pradesh	30.806	25.000	812	34.304	27.850	812	42.844	25.000	584	54.387	103.002	1,894
Maharashtra	0.240			0.230	2.289	9952	0.241	1.213	5,033	0.414	2.196	5,304
Karnataka							0.468	1.112	2,376	0.500	1.000	2,000
Punjab				13.004	2.386	183	12.455	2.358	189	12.455	2.358	189
Rajasthan	55.375	64.101	1158	81.699	84.187	1030	129.712	189.371	1,460	129.712	157.934	1,218
Uttar Pradesh	0.373	0.197	528	0.316	0.201	636	0.315	0.190	603	0.328	0.293	893
Gujarat	5.299	10.087	1904	6.675	13.371	2003	7.042	14.166	2,012	14.963	28.924	1,933
Haryana	4.775	8.702	1822	4.775	8.702	1822	4.775	8.702	1,822	5.100	9.150	1,794
Uttarakhand	0.400	2.610	6525	0.400	2.610	6525	0.400	2.610	6,525	0.400	2.610	6,525
West Bengal				2.445	2.650	1084	2.417	2.635	1,090	2.410	2.600	1,079
Total	97.268	110.697	1138	143.848	144.246	1003	200.669	247.357	1233	220.669	310.067	1,405

Table 8.7(b) State-wise area, production and productivity of Fenugreek India 2017-18 to 2020-21

State	2017-18			2018-19			2019-20			2020-21		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Madhya Pradesh	54.194	95.853	1769	48.228	86.539	1794	46.950	76.753	1635	51.751	98.990	1913
Maharashtra	0.864	6.328	7324	0.789	5.788	7336	0.741	5.623	7588	0.355	3.574	10056
Karnataka	0.631	3.582	5677	0.512	1.693	3307	0.369	1.081	2930	0.369	1.081	2930
Punjab	12.455	2.358	189	12.704	2.450	193	12.538	2.389	191			
Rajasthan	67.657	81.149	1199	45.306	59.161	1306	52.661	66.742	1267	55.000	70.000	1273
Uttar Pradesh	0.329	0.294	894	0.338	0.302	893	0.338	0.302	893	0.333	0.298	893
Gujarat	7.117	13.531	1901	6.529	12.666	1940	7.326	14.173	1935	7.000	13.579	1940
Haryana	3.360	7.472	2224	2.230	8.832	3961	2.083	8.345	4006	3.193	8.450	2646
Uttarakhand	0.400	2.610	6525	0.661	3.696	5590	0.692	3.852	5564	0.703	3.898	5543
West Bengal	2.450	2.750	1122	2.485	2.785	1121	2.595	2.910	1121	2.622	2.761	1053
Total	149.457	215.927	1445	119.783	183.912	1535	126.294	182.170	1442	121.327	202.631	1670

Table 8.8 (a) State-wise area, production and productivity of Ajwain India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	6.632	2.878	434	3.982	1.695	426	9.117	4.148	455	8.324	2.603	313
Gujarat	6.430	5.020	781	6.340	5.781	912	1.552	1.470	947	5.315	5.047	950
Madhya Pradesh	2.910			2.910			2.892			3.891	3.932	1,011
Rajasthan	12.620	9.220	731	12.446	8.674	697	11.658	4.672	401	15.428	10.541	683
Telangana	1.550	0.730	471	1.060	0.481	454	1.380	5.715	4,141	2.049	1.849	902
Total	30.142	17.848	2416	26.738	16.631	2488	26.599	16.005	602	35.007	23.972	685

Table 8.8 (b) State-wise area, production and productivity of Ajwain India 2017-18 to 2020-21

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2020-21		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	9.112	3.121	343	13.237	1.105	83	10.992	2.906	264	3.356	0.917	273
Gujarat	7.274	6.991	961	5.636	5.336	947	10.331	10.599	1026	5.000	4.734	947
Madhya Pradesh	4.791	4.854	1013	4.876	4.947	1014	7.646	8.470	1108	6.636	6.976	1051
Rajasthan	13.158	8.382	637	11.267	7.666	680	10.875	6.137	564	12.682	8.182	645
Telangana	1.083	0.859	793	0.870	0.564	648	1.290	0.861	667	1.323	1.033	781
Total	35.418	24.207	683	35.886	19.618	547	41.134	28.973	704	28.997	21.841	753

Table 8.9 (a) State-wise area, production and productivity of Dill, Celery & Poppy Seed in India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Gujarat	7.400	9.014	1,218	7.800	10.515	1,348	7.20	8.48	1,178	17.087	20.548	1,203
Karnataka							0.378	1.761	4,659	0.400	1.750	4,375
Madhya Pradesh										0.026	0.026	1,000
Mizoram	0.001	0.003	3,000	0.001	0.003	3,000	0.001	0.003	3,000	0.001	0.003	3,000
Punjab	4.070	5.510	1,354	3.411	4.659	1,366	4.005	5.509	1,376	4.005	5.509	1,376
Rajasthan	12.800	6.000	469	12.800	6.000	469	12.800	6.000	469	12.800	6.000	469
West Bengal				1.250	1.601	1,281	1.251	1.601	1,280	1.260	1.640	1,302
Total	24.271	20.527	846	25.262	22.778	902	25.635	23.358	911	35.579	35.476	997

Table 8.9 (b) State-wise area, production and productivity of Dill, Celery & Poppy Seed in India 2017-18 to 2020-21

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2020-21		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Gujarat	17.430	19.148	1099	10.909	14.305	1311	15.102	20.560	1361	12.831	16.826	1311
Karnataka	0.259	1.188	4587	0.129	0.648	5023	0.306	1.375	4493			
Madhya Pradesh	0.026	0.026	1000	0.026	0.026	1000	0.026	0.026	1000	0.026	0.026	1000
Mizoram	0.001	0.003	3000	0.000	0.000		0.000	0.000		0.001	0.002	3000
Punjab	4.005	5.509	1376	4.516	6.383	1413	4.564	6.605	1447	4.566	6.511	1426
Rajasthan	12.800	6.000	469	12.800	6.000	469	12.800	6.000	469	12.800	6.000	469
West Bengal	1.251	1.601	1280	1.276	1.670	1309	0.000	0.000		0.947	1.228	1297
Total	35.772	33.475	936	29.656	29.032	979	32.798	34.566	1054	31.170	30.592	981

Table 8.10 District-wise area, production and productivity of Coriander in Rajasthan 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
	Ajmer	151	161	1066	95	108	1137	79	105	1329	207	269	1300	26	39
Alwar	22	23	1045	20	23	1150	9	12	1333	11	14	1273			
Baran	44953	63645	1416	39372	61678	1567	18552	32571	1756	10488	18545	1768	9400	16217	1725
Barmer	2	2	1000	3	4	1333	3	4	1333	1	1	1000	3	4	1333
Bharatpur	10	11	1100	10	11	1100	7	9	1286	7	9	1286	2	3	1500
Bhilwara	161	172	1068	50	57	1140	33	44	1333	16	21	1313	13	19	1462
Bikaner	452	483	1069	550	626	1138	325	433	1332	184	239	1299	164	244	1488
Bundi	4821	5195	1078	2820	3817	1354	1730	2702	1562	784	1070	1365	230	325	1413
Chittorgarh	4771	5213	1093	3775	3735	989	2535	2648	1045	1598	1987	1243	2117	3627	1713
Churu	109	116	1064	137	156	1139	125	166	1328	86	112	1302	27	40	1481
Dausa	0	0		0	0		0	0		1	1	1000	1	2	2000
Dholpur	8	9	1125	0	0		4	5	1250	0	0				
Dungarpur	0	0		3	4	1333		0		2	0	0			
Ganganagar	23	25	1087	24	27	1125	13	17	1308		3				
Hanumangarh	4	4	1000	0	0		0	0			0				
Jaipur	2	2	1000	5	6	1200	57	76	1333	50	65	1300	49	73	1490
Jaisalmer	21	22	1048	6	7	1167	9	12	1333	5	7	1400	1	2	2000
Jalore	7	7	1000	7	8	1143	63	84	1333	1	1	1000	6	9	1500
Jhalawar	98356	89650	911	91636	80099	874	53809	66250	1231	43828	46289	1056	35757	46788	1308
Jhunjhunu	0	0		1	1	1000	2	3	1500	1	1	1000	1	2	2000
Jodhpur	949	1014	1068	834	950	1139	746	993	1331	410	532	1298	849	1263	1488
Karauli	5	5	1000	10	11	1100	1	1	1000	3	4	1333		0	
Kota	54890	58231	1061	39687	52281	1317	18202	22131	1216	10169	18869	1856	10667	19604	1838
Nagaur	92	98	1065	124	141	1137	125	166	1328	21	27	1286	48	71	1479
Pali	52	56	1077	62	71	1145	47	63	1340	6	8	1333	7	10	1429
Pratapgarh	807	862	1068	803	915	1139	817	1088	1332	882	1145	1298	424	631	1488
Rajsamand	17	18	1059	11	13	1182	11	15	1364	25	32	1280	1	2	2000
S.Madhopur	1855	1981	1068	1517	2040	1345	251	277	1104	161	267	1658	157	234	1490
Sikar	114	122	1070	0	0		30	40	1333				17	25	1471
Sirohi	2	2	1000	13	15	1154	2	3	1500	4	5	1250	15	22	1467
Tonk	58	62	1069	125	142	1136	203	270	1330	13	17	1308	51	76	1490
Udaipur	11	12	1091	12	14	1167	7	9	1286	7	9	1286	6	9	1500
Stae Total	212725	227203	1068	181712	206960	1139	97797	130197	1331	68971	89549	1298	60039	89341	1488

Table 8.11 District-wise area, production and productivity of Coriander in Gujarat 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Surat				18	26	1444	16	23	1438	36	54	1500			
Ahmedabad	500	725	1450	415	643	1550	373	597	1601	381	533	1399	473	766	1619
Anand	1200	2040	1700	1475	2507	1700	470	799	1700	0	0				
Kheda				100	123	1230	52	64	1231	41	51	1244	134	165	1231
Dahod							5	8	1600	113	170	1504	180	279	1550
Vadodara							28	41	1464	56	83	1482	65	96	1477
Mahisagar							8	12	1500	0	0		0		
Banaskantha										35	42	1200	67	80	1194
Patan				100	169	1700	30	51	1700	100	168	1680	133	225	1692
Mehsana	100	144	1440	262	377	1440	189	272	1439	164	230	1402	101	141	1396
Sabarkantha							5	8	1600	70	108	1543	58	72	1241
Gandhinagar										0	0		10	50	5000
Aravalli	100	148	1480	100	148	1480	105	158	1505	110	167	1518	120	186	1550
Kutch	6700	14941	2230	7500	16575	2210	7384	16319	2210	1300	2470	1900	1569	2981	1900
Surendranagar	5900	9440	1600	7200	11664	1620	2500	4000	1600	610	793	1300	2190	2803	1280
Rajkot	2900	5655	1950	3946	7142	1810	4143	6600	1593	941	1496	1590	9919	17358	1750
Jamnagar	900	1305	1450	1206	1737	1440	1377	1983	1440	283	410	1449	10434	15129	1450
Porbandar	5900	9935	1684	17725	30133	1700	19280	28920	1500	1115	1673	1500	12075	17509	1450
Junagadh	42800	62425	1459	53530	77619	1450	20853	30445	1460	15486	23229	1500	24215	36807	1520
Amreli	500	720	1440	1300	1664	1280	786	1163	1480	621	919	1480	719	1064	1480
Bhavnagar	100	172	1724	100	171	1710	135	225	1667	114	194	1702	322	547	1699
Morbi	6500	10400	1600	6300	10080	1600	310	546	1761	560	952	1700	530	901	1700
Botad							10	16	1600	2	3	1500	44	67	1523
Gir Somnath	13800	19734	1430	14640	21082	1440	7237	10494	1450	7818	11414	1460	3981	4608	1157
Devbhumi Dwaraka	700	1015	1450	5300	7685	1450	9700	14065	1450	200	290	1450	18800	27260	1450
Gujarat	88600	138800	1567	121199	189518	1564	74998	116812	1558	30136	45418	1507	86175	129148	1499

Table 8.12 District-wise area, production and productivity of Coriander in Madhya Pradesh 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Aagar	12825	4716	368	18008	36015	2000	18008	36015	2000	18541	14332	773	18580	14362	773
Alirajpur		70		252	630	2500	258	697	2700	264	719	2720	285	496	1740
Anuppur	52	41	788	235	391	1662	310	515	1660	331	563	1700	487	877	1800
Ashoknagar	9112	515	57	15063	22595	1500	15063	22595	1500	15563	23801	1529	17198	26189	1523
Badwani	146	45	308	631	554	878	187	187	1000	359	350	975	375	366	976
Balaghat	487	83	170	349	631	1808	349	333	954	176	176	1000	164	164	1000
Betul	630	284	451	58	162	2793	60	167	2783	47	132	2809	56	159	2843
Bhind	59	1	17	95	95	1000	97	145	1495	97	145	1495	105	157	1495
Bhopal	1399	875	625	1007	1511	1500	1017	1524	1499	943	1415	1500	903	1457	1614
Burhanpur	222	38	171	583	875	1500	590	885	1500	602	903	1500	610	915	1500
Chhatarpur	265	83	313	2750	2806	1020	2102	2141	1019	1968	1972	1002	1942	2175	1120
Chhintwara	589	256	435	350	350	1000	378	378	1000	378	378	1000	378	378	1000
Damoh	327	209	639							0	0				
Datiya	36	4	111	300	450	1500	308	462	1500	309	464	1500	320	480	1500
Dawas	100	50	500	74	150	2033	82	172	2098	85	179	2107	95	200	2105
Dhar	104	88	846	1321	1322	1001	1330	1340	1008	1387	2121	1529	1389	2353	1694
Dindori	256	69	270	32	92	2890	45	131	2900	50	140	2800	165	462	2800
Guna	56147	36004	641	77000	92400	1200	82000	98400	1200	84000	100800	1200	90324	108389	1200
Gwalior	29	7	241	1909	4773	2500	1909	4772	2500	1911	4778	2500	2111	6333	3000
Harda	48	70	1458	320	480	1500	330	498	1509	150	227	1513	150	227	1513
Hoshangabad	297	182	613	104	114	1100	277	305	1100	284	311	1098	285	313	1098
Indore	164	19	116	740	740	1000	400	400	1000	410	410	1000	412	412	1000
Jabalpur	554	206	372	1951	2731	1400	1960	2744	1400	2058	3087	1500	2063	2888	1400
Jhabua	13	1	77	61	61	1000	76	76	1000	87	87	1000	98	98	1000
Katani	207	66	319	1513	1256	830	1513.5	1710	1130	1516	1713	1130	1517	1714	1130

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Khandwa	1007	561	557	65	104	1600	67	107.2	1600	67	107	1600	70	113	1614
Khargone	871	279	320	275	303	1102	245	270	1102	251	276	1100	326	485	1488
Mandla	345	110	319	405	554	1367	416	600	1445	425	615	1448	605	881	1455
Mandsaur	36422	22113	607	34010	47614	1400	33565	46991	1400	33455	46837	1400	32587	45622	1400
Morena	6		0							3	3	1007	10	10	1030
Narasimhapur	2226	377	169	1352	1971	1458	1357	1977	1457	1336	1965	1471	1336	1965	1471
Nimach	10387	6416	618	25000	25000	1000	24500	24500	1000	20150	20150	1000	15150	15150	1000
Panna	481	703	1462	306	684	2235	308	688	2234	310	692	2232	335	748	2232
Raisen	800	257	321	2335	2536	1086	2340	2540	1085	1368	1442	1054	1368	1442	1054
Rajgarh	37590	23398	622	51141	63926	1250	54140	67675	1250	54567	68209	1250	55112	68890	1250
Ratlam	1437	690	480	1072	1608	1500	1077	1614	1499	880	5439	6180	596	896	1503
Rewa	303	127	419	7272	18907	2600	5890	15315	2600	7014	17535	2500	9453	23633	2500
Sagar	443	276	623	2000	8000	4000	1550	6200	4000	1661	7985	4807	1855	5193	2800
Satna	360	22	61	1427	3198	2241	920	2058	2237	981	2119	2160	1045	2345	2244
Sehore	554	397	717	2025	3645	1800	2312	4162	1800	2312	4162	1800	3010	5418	1800
Seoni	243	89	366	360	360	1000	363	367	1010	377	385	1021	406	411	1013
Shahdol	55	34	618	667	467	700	627	445	709	629	443	704	875	613	700
Shajapur	1455	345	237	1120	1512	1350	1140	1596	1400	1145	1603	1400	1150	1610	1400
Sheopur	16438	6838	416	12000	21000	1750	12000	21000	1750	12600	22050	1750	13558	23730	1750
Shivpuri	1567	334	213	1656	2448	1478	1700	2550	1500	1812	2718	1500	2248	2718	1209
Sidhi	107	104	972	505	858	1699	555	938	1690	605	1030	1702	1280	2179	1702
Singaroli	299	191	639	266	266	1000	560	921	1645	630	1095	1737	982	1783	1815
Tikamgarh	286	80	280	1214	1335	1100	411	452	1100	600	654	1090	670	730	1090
Ujjain	1677	300	179	2525	6828	2705	2530	7160	2830	2631	7630	2900	2776	8328	3000
Umaria	12	21	1750	60	120	2000	450	585	1300	475	617	1299	550	715	1300
Vidisha	4511	432	96	2000	3000	1500	2165	3248	1500	2180	3272	1501	4923	7588	1541
State Total	203950	108476	532	275763	387428	1405	279837	390548	1396	279980	378233	1351	292288	394758	1351
Non-reported	36	11	306	36	11	306	36	11	306	36	11	306	36	11	306
State total	203986	108487	532	275799	387439	1405	279873	390559	1395	280016	378244	1351	292324	394769	1350

Table 8.13 District-wise area, production and productivity of Coriander in Assam 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Cachar	194	189	974	196	191	974	207	209	1010	218	237	1087	229	277	1210
Hailakandi	374	370	989	376	372	989	387	390	1008	398	418	1050	409	458	1120
Karimganj	14	14	1000	15	15	1000	26	33	1269	37	61	1649	48	101	2104
Goalpara	911	897	985	913	899	985	924	917	992	935	945	1011	946	985	1041
Dhubri	4176	2698	646	4178	2699	646	4188	2846	680	3901	2773	711	4409	3170	719
Kokrajhar	628	760	1210	630	762	1210	641	780	1217	652	308	472	663	348	525
Bongaigaon	460	458	996	461	459	996	472	477	1011	483	505	1046	494	545	1103
Kamrup(R)	1003	993	990	1004	994	990	1015	1012	997	1026	1294	1261	1037	1334	1286
Nalbari	2324	2846	1225	2325	2848	1225	2536	3111	1227	2547	3139	1232	2558	3179	1243
Barpeta	3886	3574	920	3887	3572	919	3898	3725	956	3909	3753	960	4423	3793	858
Darrang	2578	3319	1287	2579	3319	1287	2590	3337	1288	2601	2754	1059	1612	3405	2112
Sonitpur	1863	1946	1045	1864	1948	1045	1875	1966	1049	1886	1994	1057	1897	2034	1072
Nagaon	3381	2966	877	3382	2966	877	3649	3003	823	3660	3236	884	3671	3276	892
Morigaon	560	1119	1998	561	1121	1998	572	1139	1991	583	1164	1997	594	1204	2027
Baksa	1035	1164	1125	1036	1165	1125	1047	1183	1130	1058	1211	1145	1571	1251	796
Chirang	340	382	1124	341	383	1123	352	401	1139	363	429	1182	374	479	1281
Kamrup (M)	1087	1125	1035	1089	1127	1035	1100	1145	1041	1111	1173	1056	1122	1213	1081
Udalguri	568	1127	1984	569	1129	1984	580	1147	1978	591	1175	1988	602	1215	2018
Jorhat	718	761	1060	720	763	1060	731	781	1068	742	809	1090	753	849	1127
Golaghat	369	400	1084	371	403	1086	382	421	1102	393	449	1142	404	480	1188
Sibsagar	618	624	1010	619	625	1010	630	643	1021	641	671	1047	652	711	1090
Lakhimpur	142	222	1563	143	225	1573	154	243	1578	165	271	1642	176	311	1767
Dhemaji	8	7	875	15	7	467	26	25	962	37	53	1432	48	93	1938
Dibrugarh	448	477	1065	449	478	1065	460	496	1078	471	524	1113	482	564	1170
Tinsukia	813	831	1022	814	832	1022	825	850	1030	836	878	1050	847	918	1084
K. Anglong	190	134	705	192	204	1063	203	222	1094	216	250	1157	227	290	1278
Dima Hasao	265	273	1030	266	271	1019	279	288	1032	289	316	1093	300	356	1187
State Total	28953	29676	1025	28995	29777	1027	29749	30790	1035	29749	30790	1035	30548	32839	1075

Table 8.14 District-wise area, production and productivity of Cumin in Gujarat 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Ahmedabad	17600	14432	820	12400	11408	920	19777	18590	940	18807	18619	990	21572	21141	980
Anand	200	144	720				31	22	710		0				
Kheda	100	80	800				100	100	1000	89	98	1101	130	143	1100
Panchmahal										20	20	1000	20	20	1000
Dahod							0	0					4	7	1750
Vadodara										28	20	714	8	6	750
Mahisagar										37	32	865	37	32	865
Banaskantha	62000	65100	1050	64910	67506.4	1040	70514	71924	1020	75687	76444	1010	85115	90222	1060
Patan	66100	66100	1000	40700	42328	1040	68400	68400	1000	64213	32749	510	49670	25332	510
Mehsana	1800	1530	850	1844	1604.28	870	2358	2051	870	1698	1477	870	655	570	870
Sabarkantha	500	350	700	700	560	800	200	164	820	760	623	820	178	146	820
Gandhinagar							26	10	385						
Aravalli	200	130	650	200	156	780	170	133	782	178	139	781	185	150	811
Kutch	28200	29610	1050	23200	24592	1060	35000	37100	1060	45901	48655	1060	62090	65815	1060
Surendranagar	84600	91368	1080	93300	102150	1094.86	87300	87300	1000	95740	95740	1000	69348	69348	1000
Rajkot	5900	4130	700	4876	3657	750	21962	18448	840	4064	3414	840	29812	27427	920
Jamnagar	800	720	900	1889	1964.56	1040	5000	5200	1040	2935	3140	1070	16541	16541	1000
Porbandar	3500	3500	1000	12085	12326.7	1020	23613	25974	1100	3305	3305	1000	30210	31721	1050
Junagadh	1500	1350	900	5300	4664	880	9151	8144	890	18805	16925	900	9481	8533	900
Amreli	1200	864	720	900	765	850	1407	1027	730	983	718	730	1622	1184	730
Bhavnagar	200	160	800	202	179.78	890	187	170	909	94	90	957	223	219	982
Morbi	19000	19570	1030	11000	12345	1122	15901	17173	1080	13793	15034	1090	14480	15783	1090
Botad	1500	1350	900	300	306	1020	1122	1234	1100	1329	1502	1130	2755	3113	1130
Gir Somnath				145	127.6	880	100	87	870	32	26	813	0	0	
Devbhumi Dwaraka	500	450	900	4800	4848	1010	20400	21216	1040	1050	1092	1040	100100	104104	1040
Gujarat	295400	300938	1018.75	278751	291488	1045.69	382719	384467	1005	349552	319864	915	494238	481558	974

Table 8.15 District-wise area, production and productivity of Cumin in Rajasthan 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Ajmer	7751	2646	341	3807	1445	380	6705	4434	661	8520	7136	838	4530	2662	588
Alwar										1	1	1000	2	1	500
Baran	0	0					1	1	1000						
Barmer	132013	31840	241	138021	43115	312	151231	50254	332	171482	49024	286	208691	86555	415
Bhilwara	1344	391	291	762	315	413	1286	670	521	1000	560	560	385	211	548
Bikaner	7898	2443	309	6609	2900	439	9691	4363	450	15764	7212	457	23666	9100	385
Bundi	2	1	500	1	0	0				0	0				
Chittorgarh	91	36	396	88	36	409	64	33	516	103	58	563	63	35	556
Churu	1753	678	387	1228	357	291	1896	1128	595	1374	368	268	1481	402	271
Dausa							1	1	1000				1		0
Ganganagar							1	1	1000	7	4	571	3	2	667
Hanumangarh										2	1	500	1		0
Jaipur	63	25	397	18	8	444	38	20	526	37	21	568	34	19	559
Jaisalmer	38983	17817	457	44061	20240	459	62312	32879	528	87046	44519	511	105888	47871	452
Jalore	95738	34226	357	101148	34543	342	91902	48604	529	127564	67459	529	137619	63292	460
Jhalawar							4	2	500	0					
Jhunjhunu	2	1	500	9	4	444				1	1	1000			
Jodhpur	147821	72107	488	138596	75405	544	157616	105417	669	168050	136662	813	191073	143082	749
Kota	1	0	0				14	7	500	2	1	500	2	1	500
Nagaur	49645	31107	627	44793	22585	504	73418	43666	595	72815	51836	712	83976	58379	695
Pali	20426	4370	214	13114	3172	242	16900	6553	388	15014	9191	612	16432	12603	767
Pratapgarh	20	8	400	13	5	385	39	20	513	67	37	552	11	6	545
Rajsamand	1	0	0	8	3	375				10	6	600	1		0
S.Madhopur				1	0	0	1	1	1000	0					
Sikar	6	2	333	3	1	333	5	3	600	12	7	583	10	5	500
Sirohi	6393	2620	410	7206	2594	360	6839	3914	572	6335	3715	586	5257	3563	678
Tonk	1041	496	476	547	166	303	1339	925	691	1012	823	813	635	349	550
Udaipur	86	34	395	108	45	417	61	32	525	22	12	545	14	8	571
Rajasthan	511078	200848	393	500141	206939	414	581364	302928	521	676240	378654	560	779775	428146	549

Table 8.16 District-wise area, production and productivity of Fennel in Gujarat 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Ahmedabad				125	250	2000	292	581	1990	304	608	2000	438	920	2100
Banaskantha	4900	10535	2150	3410	7365.6	2160	9689	19862	2050	14329	28658	2000	9305	18703	2010
Gandhinagar	2000	4340	2170	1600	3488	2180	1484	2968	2000	1138	2276	2000	1241	2482	2000
Kutch	400	790	1975	900	1809	2010	441	886	2009	1300	2613	2010	1784	3586	2010
Kheda	600	1164	1940	200	396	1980	447	885	1980	589	1166	1980	1558	3085	1980
Mehsana	6800	14756	2170	9774	21405.06	2190	7054	14884	2110	13987	30632	2190	10484	22960	2190
Patan	3600	8280	2300	1400	3150	2250	3360	6720	2000	2357	4243	1800	2981	5396	1810
Panchmahal	200	260	1300	200	270	1350	210	284	1352	190	260	1368	230	315	1370
Dahod	100	50	500				5	3	600	67	34	507	57	34	596
Rajkot							5	4	800						
Sabarkantha	1500	3199.61	2133	2600	5676	2183	2712	5885	2170	2749	5965	2170	1508	3167	2100
Vadodara										13	26	2000	6	12	2000
Surendranagar	16600	36022	2170	10300	22454	2180	7852	16489	2100	15678	32924	2100	18786	38887	2070
Mahisagar	600	1124.26	1874	1000	1880	1880	100	188	1880	93	176	1892	120	230	1917
Aravelli	1900	4161	2190	2300	4899	2130	2321	4967	2140	2512	5376	2140	2680	5762	2150
Morbi	6200	12090	1950	7100	14839	2090	2150	4622	2150	1052	2262	2150	1490	3204	2150
Botad							8	16	2000	58	121	2086	134	284	2119
Total	45400	96772	2132	40909	87882	2148	38130	79244	2078	56416	117340	2080	52802	109027	2065

Table 8.17 District-wise area, production and productivity of Fenugreek in Gujarat 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Ahmedabad	210	468	2229	106	228	2150	105	223	2124	107	227	2121	221	482	2181
Amreli	106	176	1660	108	177	1640	75	125	1667	23	38	1652	26	43	1654
Banaskantha	558	1283	2300	7915	15593	1970	300	600	2000	218	414	1899	328	656	2000
Bharuch	313	689	2201	303	636	2100	209	523	2502	290	725	2500	291	728	2502
Narmada	67	104	1552	72	111	1540	81	131	1617	80	153	1913	75	143	1907
Bhavnagar	15	20	1320	16	20	1250	24	30	1250	17	21	1235	51	66	1294
Gandhinagar													3	9	3000
Jamnagar	82	128	1561	85	132	1550	92	143	1554	78	121	1551	102	158	1549
Junagadh	10	14	1400	190	266	1400	341	484	1419	205	293	1429	90	131	1456
Kutch	341	722	2117	365	773	2117	376	796	2117	187	396	2118	147	312	2122
Kheda	9	18	1950	15	26	1750	15	26	1733	35	62	1771	35	61	1743
Mehsana	637	1484	2330	637	1401	2200	652	1434	2199	542	1192	2199	464	1021	2200
Patan	900	1782	1980	950	1862	1960	900	1800	2000	860	1641	1908	886	1710	1930
Panchmahal	275	454	1651	300	435	1450	205	297	1449	205	297	1449	475	689	1451
Dahod	1106	2212	2000	1144	2254	1970	1250	2480	1984	1745	3458	1982	2079	4158	2000
Rajkot	250	520	2080	255	505	1980	110	88	800	92	156	1696	85	155	1824
Sabarkantha	80	158	1975	80	158	1970	86	170	1977	86	170	1977	58	112	1931
Surat	82	127	1549	82	126	1540	108	205	1898	111	213	1919	107	205	1916
Surendranagar	680	1326	1950	700	1358	1940	545	1079	1980	480	950	1979	430	804	1870
Baroda	424	721	1700	437	739	1690	449	775	1726						
Valsad	28	54	1929	29	56	1940	31	59	1903	21	58	2762	31	58	1871
Navsari	131	234	1786	138	246	1783	140	250	1786	153	306	2000	152	296	1947
Tapi	105	210	2000	110	210	1909	110	210	1909	108	205	1898	108	205	1898
Aravalli	64	124	1938	71	136	1910	69	131	1899	74	141	1905	75	144	1920
Botad	25	54	2160	35	75	2150	20	48	2400						
Chota Udaipur	106	252	2380	75	157	2093	83	174	2096	96	201	2094	92	192	2087
Devbhoomi Dwaraka	20	35	1750	23	41	1783	23	41	1783	27	48	1778	25	45	1800
Gir Somnath	15	21	1400	284	398	1401	290	409	1410						
Vadodara										451	780	1729	510	882	1729
Mahisagar	170	283	1665	175	248	1417	178	253	1421	188	291	1548	200	316	1580
Morbi	233	494	2120	263	558	2122	250	545	2180	50	109	2180	180	392	2178
State total	7042	14167	2012	14963	28924	1933	7117	13529	1901	6529	12666	1940	7326	14173	1935

Table 8.18 District-wise area, production and productivity of Fenugreek in Rajasthan 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Ajmer	162	809	4994	162	197	1216	432	518	1199	496	648	1306	629	797	1267
Alwar	631	1033	1637	631	768	1217	585	701	1198	429	560	1305	305	387	1269
Banswara	11	22	2000	11	13	1182	3	4	1333	5	7	1400	4	5	1250
Baran	876	2319	2647	876	1067	1218	116	139	1198	42	64	1524	81	103	1272
Barmer	659	1406	2134	659	802	1217	194	233	1201	109	142	1303	198	251	1268
Bharatpur	18	69	3833	18	22	1222	2	2	1000	0			7	9	1286
Bhilwara	612	435	711	612	745	1217	381	457	1199	412	538	1306	288	365	1267
Bikaner	34401	42879	1246	34401	39584	1151	13465	13778	1023	7046	7760	1101	9736	11272	1158
Bundi	1031	1863	1807	1031	1255	1217	166	199	1199	55	72	1309	93	118	1269
Chittorgarh	4157	6911	1662	4157	5423	1305	3318	4817	1452	2442	3179	1302	2486	4077	1640
Churu	15036	25952	1726	15036	15926	1059	7886	8289	1051	4985	5633	1130	5893	5593	949
Dausa	7	0	0	7	9	1286	2	2	1000	2	3	1500	8	10	1250
Dungarpur	3	4	1333	3	4	1333	6	7	1167	3	4	1333	6	8	1333
Ganganagar	107	374	3495	107	130	1215	19	23	1211	59	77	1305	33	42	1273
Hanumangar	338	1425	4216	338	412	1219	50	60	1200	68	89	1309	55	70	1273
Jaipur	2227	2878	1292	2227	2238	1005	1740	2364	1359	1484	1914	1290	1085	1375	1267
Jaisalmer	677	896	1323	677	824	1217	250	300	1200	36	47	1306	55	70	1273
Jalore	1357	2275	1676	1357	1652	1217	201	241	1199	119	155	1303	281	356	1267
Jhalawar	5223	7574	1450	5223	6870	1315	2837	3804	1341	2088	2366	1133	2798	4134	1477
Jhunjhunu	7878	13611	1728	7878	8478	1076	5935	8632	1454	4434	5852	1320	3973	5112	1287
Jodhpur	18696	28108	1503	18696	26862	1437	8639	10534	1219	5184	6769	1306	7271	8276	1138
Karauli	4	8	2000	4	5	1250	1	1	1000	2	3	1500			
Kota	4675	9956	2130	4675	8139	1741	793	1141	1439	355	611	1721	550	973	1769
Nagaur	7382	10450	1416	7382	6959	943	4508	4728	1049	3126	4856	1553	4438	4929	1111
Pali	4352	3975	913	4352	5661	1301	1893	2006	1060	1587	2002	1261	1823	2530	1388
Pratapgarh	7944	8400	1057	7944	13127	1652	5873	8096	1379	4542	7210	1587	5044	8183	1622
Rajsamand	215	224	1042	215	262	1219	261	313	1199	181	236	1304	320	406	1269
S.Madhopur	1152	1039	902	1152	1403	1218	80	96	1200	98	128	1306	147	186	1265
Sikar	9678	14167	1464	9678	8850	914	7751	9336	1204	5711	7968	1395	4817	6805	1413
Sirohi	13	23	1769	13	16	1231	7	8	1143	1	1	1000	11	14	1273
Tonk	23	52	2261	23	28	1217	14	20	1429	27	35	1296	41	52	1268
Udaipur	167	234	1401	167	203	1216	249	299	1201	178	232	1303	185	234	1265
Rajasthan	129712	189371	1460	129712	157934	1218	67657	81148	1199	45306	59161	1306	52661	66742	1267

Table 8.19 District-wise area, production and productivity of Ajwain in Rajasthan 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Ajmer	112	59	527	589	409	694	73	59	808	62	108	1742	47	38	809
Baran				7	5	714	4	3	750						
Barmer				6	3	500							4	3	750
Bhilwara	1001	620	619	1271	569	448	1070	541	506	921	617	670	644	342	531
Bikaner	2	1	500	5	4	800	5	4	800	2	2	1000			
Chittorgarh	9138	2954	323	11052	6543	592	10575	5801		9111	5132	563	8806	4852	551
Churu	1	1	1000				1	1	1000						
Dausa															
Jaipur	9	5	556	4	4	1000	4	4	1000	1	1	1000	13	13	1000
Jaisalmer															
Jalore	66	66	1000	397	238	599	49	34	694	66	40	606	53	29	547
Jhalawar	2	2	1000	15	6	400	6	4	667	2	2	1000	4	1	250
Jodhpur				4	4	1000	1	1	1000				2	2	1000
Kota	71	33	465	154	81	526	190	96	505	33	21	636	452	11	24
Nagaur	56	38	679	181	181	1000	81	86	1062	5	9	1800	18	12	667
Pali	1	1	1000	87	92	1057	17	14	824	11	11	1000	20	20	1000
Pratapgarh	134	268	2000	308	616	2000	174	261	1500	223	335	1502	222	333	1500
Rajsamand	621	398	641	749	1497	1999	676	1356	2006	657	1316	2003	415	421	1014
S.Madhopur				1		0									
Tonk	60	26	433	324	143	441	22	11	500	13	6	462	36	18	500
Udaipur	384	200	521	274	146	533	210	106	505	160	66	413	139	42	302
Rajasthan	11658	4672	401	15428	10541	683	13158	8382	637	11267	7666	680	10875	6137	564

Table 8.20 Trend in export of various seed spices for the last twenty years

Year	Coriander		Cumin		Fennel		Fenugreek		Celery		Other Seeds		Total	
	Quantity (MT)	Value (Rs in lakhs)	Quantity (MT)	Value (Rs in lakhs)	Quantity (MT)	Value (Rs in lakhs)	Quantity (MT)	Value (Rs in lakhs)	Quantity (MT)	Value (Rs in lakhs)	Quantity (MT)	Value (Rs in lakhs)	Quantity (MT)	Value (Rs in lakhs)
2001-02	15,925	4,834	17248	14818	4374	1696	6,582	1617.14	4,251	1237	9,979	2791	58,359	26,993
2002-03	18,065	5,565	10422	9326	4160	1784	13193	2551	3,960	1225	14,920	3617	64,720	24,069
2003-04	21,018	7,201	7957	5884	5007	2211	6932	1555	4,815	1520	14,031	3397	59,760	21,768
2004-05	33,750	8,266	13750	10190	7100	2530	13750	2661	4,100	1301	11,100	2614	83,550	27,561
2005-06	23,756	6,771	12879	9819	5725	2782	15525	3403	4,165	1501	12,670	3322	74,720	27,598
2006-07	20,500	7,462	26000	20150	3575	2380	8500	2699	3,550	1,321	8,000	2,240	70,125	36,252
2007-08	26,000	11,025	28000	29150	5250	2850	11100	3300	2,900	1,325	8,840	3,075	82,090	50,725
2008-09	30,200	20,379	52550	54400	8675	4315	20750	7175	3,650	2,333	17,500	6,499	133,325	95,101
2009-10	47,250	22,586	49750	54824	6800	5624	21000	6972	5,000	2,663	15,500	5,890	145,300	98,559
2010-11	40,500	16,663	32500	39598	7250	6588	18500	6548	3,750	2,586	12,500	5,558	115,000	77,541
2011-12	28,100	16,402	45500	64442	8100	7209	21800	7275	3,650	2,340	13,050	5,881	120,200	103,549
2012-13	35,902	20,183	85602	115307	13811	10466	29622	10488	5,171	2,977	18,442	11,179	188,550	170,600
2013-14	45,750	37,186	121500	160006	17300	16001	35575	13378	5,600	3,661	27,800	15,426	253,525	245,658
2014-15	46,000	49,813	155500	183,820	11650	13166	23100	13948	5,650	4,302	28,250	16,513	270,150	281,562
2015-16	40,100	42,681	97,790	153,113	15,320	17,240	33,330	23,381	5,310	5,328	23,880	16,206	215,730	257,948
2016-17	30,300	29,208	119,000	196,320	35,150	30,876	34,680	18,277	6,250	6,246	18,100	15,455	243,480	296,381
2017-18	35,185	27,275	143,670	241,799	34,550	25,906	29,280	12,689	6,480	5,950	22,175	16,046	271,340	329,665
2018-19	29,280	12,689	180,300	288,480	26,250	24,413	27,150	13,847	6,100	6,649	29,740	18,736	298,820	364,813
2019-20	47,135	39,831	214,190	332,806	24,220	23,162	26,570	15,690	6,230	6,904	37,580	22,081	355,925	440,474
2020-21	57,000	48,983	299,000	425,310	31,800	27,630	38,300	24,642	7,650	9,984	48,800	30,008	482,550	566,556

Table 8.21 Country-wise export of seed spices from India

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
Coriander										
Malaysia	11932	13534	12162	10635	10565	7606	11208	7986	11611	9983
U.A.E	4540	4700	3782	3067	4328	3015	4253	2800	5409	3888
U.K	2962	3224	2558	2681	2604	2424	2617	2629	2882	3027
South Africa	2105	1991	2322	2251	1983	1684	2592	2296	2607	2680
Nepal	1740	1872	928	784	2695	1562	3480	2179	3914	2640
Saudi Arabia	2332	2162	2091	1749	2958	1889	3713	2327	3723	2727
U.S.A	1322	2117	1306	2079	1678	2193	1828	2493	1655	2408
Qatar	565	624	690	604	1010	784	1172	888	1239	998
Oman	1057	1118	1006	1016	959	804	1289	976	1066	876
Australia	373	613	492	697	515	623	479	577	678	834
Kuwait	399	529	541	624	585	560	702	688	763	789
Total (Incl. Others)	40100	42681	30300	29208	35185	27275	48900	35208	47135	39831

Continued...

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
Cumin										
China	133	219	212	345	28	44	2608	3834	54704	88090
Bangladesh	4275	5428	10068	13981	18211	25454	26909	36284	32095	41225
U.S.A	9776	17964	11548	21962	10771	21580	13282	25664	14186	27388
Afganisthan					220	331	4403	7451	11471	17097
Egypt (A.R.E)	4306	6063	2457	3820	3631	5727	8420	13099	8981	13253
U.A.E	5787	8551	8577	13399	10817	16846	7272	11129	8506	12508
Nepal	3006	4386	3788	5785	5966	9585	7624	11507	7586	12075
Morocco	1135	1573	1328	2009	2808	4446	4724	7046	6375	9516
Pakistan	2041	3138	3175	5820	5414	8871	8462	12735	5767	8971
U.K	3757	7324	3936	7853	3837	7670	4525	9033	4390	8882
Malaysia	4078	6537	4035	6982	3978	7239	4425	7764	4160	6667
Brazil	4656	6334	5077	6131	5888	7497	5415	7591	5386	6371
Saudi Arab	3249	4566	3453	5314	3779	5674	3748	5482	3863	5512
Mexico	1092	1561	1412	2039	2522	3695	2583	3888	3303	4641
Sri Lanka	2630	3888	2647	4249	2856	4717	3148	5016	3152	4638
Japan	853	1977	1170	2617	1182	2712	1082	2677	1740	4063
Total (Incl. Others)	97790	153113	119000	196320	143670	241799	180300	288480	214190	332806

Continued...

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
Celery										
U.S.A	3286	3089	3765	3434	3966	3424	3740	3946	3589	3814
South Africa	302	340	444	505	419	407	485	536	481	570
Netherlands	119	176	308	377	150	160	202	266	235	329
China	221	204	336	302	280	236	266	249	396	363
Phillipines	81	99	99	124	102	133	131	165	192	273
Canada	200	199	267	253	266	225	157	155	219	219
Japan	134	149	105	123	130	113	138	153	143	163
Total (Incl. Others)	5310	5328	6250	6246	6480	5950	6100	6649	6230	6904
Fennel										
Vietnam	1037	885	17115	13446	18976	12245	9684	7338	1348	1025
U.S.A	2465	3153	2529	3024	2315	2556	2794	3054	1882	2615
Malaysia	2235	2428	2836	2390	2299	1680	2009	1897	2631	2401
Saudi Arabia	1453	1480	2124	1869	1570	1194	1803	1616	1843	1588
China					0	1	247	179	1597	1200
U.A.E	1027	1054	1315	1174	1184	968	1401	1305	1144	1084
U.K	901	1333	902	1153	767	996	895	1282	1217	1682
Canada	262	431	405	569	402	555	551	813	557	814
Nepal	86	95	44	50	306	243	774	674	925	867
Bangladesh	384	239	801	521	1618	927	736	543	3473	2359
Total (Incl. Others)	15320	17240	35150	30876	34550	25906	26250	24413	24220	23162

Continued...

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
Fenugreek										
U.S.A	1207	1327	1551	1524	1089	1394	1429	1614	1280	1558
Y.A.R	2696	2164	3072	1328	2608	852	3121	1195	3343	1627
U.A.E	3306	2038	2842	1408	2672	959	1933	1093	845	578
South Africa	1190	788	1801	924	1648	611	1880	884	1425	750
Uk	898	1046	896	573	987	582	846	581	775	609
Nepal	532	389	687	419	1230	449	1487	559	1625	753
Saudi Arabia	3597	2310	2665	1145	1855	651	1289	548	1310	676
Bangladesh	950	467	1309	528	653	208	936	512	1797	935
Sri Lanka	2672	1774	2529	1079	1992	672	1255	484	1368	663
Germany	772	552	988	516	1098	452	1008	482	1032	691
Total (Incl. Others)	33300	23380	34680	18276	29280	12689	27150	13847	26570	15690

Continued...

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
Other Seeds										
Nepal	11108	4958	8838	4579	7660	3898	15072	6014	24001	9312
U.S.A	1453	1978	1348	2316	1690	2294	1651	2323	1638	2685
U.K	725	869	766	830	787	822	873	1088	841	1135
Sri Lanka	1130	513	287	156	750	383	2276	1069	2092	933
Saudi Arabia	748	899	1104	1469	916	688	983	907	865	877
U.A.E	944	596	678	492	1626	958	1305	723	1209	824
Pakistan	191	570	168	516	248	531	342	668	293	461
Canada	216	303	304	529	338	520	438	666	473	710
Malaysia	414	319	309	338	485	329	645	532	623	540
Total (Incl. Others)	23085	15959	18100	15456	22175	16046	29740	18736	37580	22081

Table 8.22 Trend in import of various seed spices in India

Year	Coriander		Cumin black/white		Poppy seed	
	Quantity (MT)	Value (Rs. in lakhs)	Quantity (MT)	Value (Rs. in lakhs)	Quantity (MT)	Value (Rs. in lakhs)
2001-02	407	139	961	729	477	212
2002-03	637	263	3503	2037	6779	2801
2003-04	1050	423	2599	1480	9089	3403
2004-05	1220	610	1133	632	8337	2940
2005-06	1,838	814	906	624	5798	2106
2006-07	2,270	1008	1191	1010	10652	4885
2007-08	1,000	620	2,000	1850	5,300	3616
2008-09	3,030	1907	190	242	5,900	11742
2009-10	1,450	922	1,600	1631	11,750	20000
2010-11	915	622	515	593	9,050	12764
2011-12	3775	2723	665	839	24075	26848
2012-13	4470	3526	120	165	11630	23222
2013-14	4640	5177	570	923	14800	30488
2014-15	9750	9631	200	305	12700	24773
2015-16	25305	17467	2000	3441	10210	18379
2016-17	44485	22049	2800	4975	18010	29515
2017-18	28040	13200	3420	6066	8540	14005
2018-19	13230	5609	950	1831	18450	31788
2019-20	12000	8027	2615	4419	19940	44177

Table 8.23 Monthly average price of Seed spices in Chennai market from 2015-16 to 2020-21

Coriander (Indori Asta)

(Price: Rs/quintal)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	9363	7913	7875	6450	8575	NA
May	10410	8250	7813	6400	8840	NA
June	12063	8250	7500	6280	9000	NA
July	12150	8625	6875	6350	9000	10500
August	12000	8937	6950	6850	8850	10500
September	11687	8800	7000	6825	8750	11250
October	12090	9000	7875	6875	8687	11300
November	12250	8375	8000	7860	9000	9562
December	12187	8600	7400	7875	8750	9000
January	9625	8750	7000	7500	8850	8750
February	8250	8625	7000	7625	8750	8250
March	7750	7910	6700	8000	8625	8250
Mean	10819	8503	7332	7074	8806	9707

Cumin

(Price: Rs/quintal)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	16563	16875	20387	16675	16950	NA
May	17350	17937	20000	16550	18090	NA
June	17250	17870	19400	17230	18250	NA
July	16650	19975	19875	19375	18087	14750
August	16937	20400	20240	20240	17720	14750
September	16750	19470	19800	19737	16837	14650
October	17050	18787	19625	20500	16500	14600
November	17000	18875	19925	20870	16680	15000
December	17063	19800	20790	20700	17150	15000
January	16000	19750	21600	18700	17540	14875
February	15750	19825	19987	18137	15275	14500
March	16080	19350	18230	17880	14900	14850
Mean	16704	19076	19988	18883	16998	14775

Fennel				(Price: Rs/quintal)		
Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	10313	11750	10125	10067	11400	NA
May	14000	11600	8500	10050	11450	NA
June	15375	10720	8500	10280	11487	NA
July	13500	11400	9125	10950	9950	9250
August	13187	11375	9750	10910	9550	9187
September	14125	10800	9750	10837	9287	9250
October	13000	10500	9187	10850	9050	9500
November	17000	10375	9075	11340	9120	9437
December	12500	10000	9680	10925	9075	9210
January	12625	10000	9475	10400	9000	9162
February	11875	10625	10000	10250	8750	9062
March	11800	10100	9860	10350	8750	10750
Mean	13275	10770	9419	10601	9739	9423

Fenugreek				(Price: Rs/quintal)		
Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	6125	5500	4781	4583	6337	NA
May	8100	6125	4125	4850	6670	NA
June	8437	5660	3940	4890	6550	NA
July	9000	5625	4175	4887	6550	6250
August	8350	5612	4330	5070	6430	7300
September	9000	5370	4225	4912	6250	7575
October	10500	5187	4018	4875	6350	7650
November	8750	5062	3937	5280	6540	7887
December	8275	4956	3940	5400	6462	7270
January	8000	4900	4450	5400	6090	7050
February	6750	4900	4375	5375	5700	6925
March	6050	4890	4180	5280	5500	7425
Mean	8111	5316	4206	5067	6286	7259

Ajwan seed				(Price: Rs/quintal)		
Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	15500	19888	10437	10583	13500	NA
May	15000	22444	10250	10500	13500	NA
June	15000	23100	10250	10650	13500	NA
July	15000	24250	9875	11250	13250	12000
August	15875	21750	9600	10950	13250	13000
September	15000	19600	9750	10500	13250	14250
October	15000	19325	9187	10500	13250	13500
November	15000	18750	8750	10710	13750	14375
December	14000	17700	8900	14875	14000	13600
January	14000	17500	10625	14500	14000	13000
February	14000	14500	10975	14625	12000	13000
March	20000	11550	10750	14500	12500	14500
Mean	15281	19196	9946	12012	13313	13469

Table 8.24 Value of output of Coriander, Statewise at 2011-12 prices

Rs in lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	2376	1978	1891	7827	3917	893	892
Assam	7064	10940	11745	11935	12184	6560	6743
Bihar	757	643	768	643	643	893	704
Chhattisgarh	433	364	359	325	325	329	200
Gujarat	20105	27317	20105	40061	86370	118074	72687
Haryana	1691	2363	1645	2090	2363	2385	2385
Himachal Pradesh	61	64	13	64	243	243	95
Jharkhand	5	3	0	0	0	0	0
Karnataka	444	2408	247	442	443	581	114
Madhya Pradesh	37833	37833	34604	34604	50055	182712	177024
Maharashtra	0	0	0	0	59	5725	2596
Nagaland	0	0	85	92	95	80	51
Odisha	4797	4792	4784	4697	4753	4667	4667
Rajasthan	103487	58672	36755	62398	71326	64971	40873
Tamil Nadu	2538	371	1314	4045	3302	739	2067
Telangana	715	575	595	244	249	249	641
Uttar Pradesh	1363	1084	1363	1031	799	1109	1096
Uttarakhand	1849	2543	2543	2543	2543	2543	2543
West Bengal	6550	6554	6559	6563	6478	6496	6670
All India	192067	158508	125375	179606	246149	399248	322048

Table 8.25 Value of output of Coriander, Statewise at current prices

Rs in lakhs

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	2376	2528	3635	15149	7306	1500	1257
Assam	7064	11970	25273	37889	38020	20821	21403
Bihar	757	802	1027	1095	1109	1540	991
Chhattisgarh	433	343	507	574	643	561	405
Gujarat	20105	18152	21100	51084	103678	94926	50644
Haryana	1691	2423	2400	3824	4441	3697	3697
Himachal Pradesh	61	66	16	78	297	402	130
Jharkhand	5	4	0	0	0	0	0
Karnataka	444	3549	426	590	896	1043	188
Madhya Pradesh	37833	38300	36564	36401	53252	190540	183815
Maharashtra	0	0	0	0	104	7141	2338
Nagaland	0	0	91	102	108	92	61
Odisha	4797	5134	5063	5207	5543	6256	6272
Rajasthan	103487	106414	85493	149212	172495	131629	79406
Tamil Nadu	2538	454	2272	8825	7444	1669	4726
Telangana	715	495	672	381	273	303	714
Uttar Pradesh	1363	1084	1363	1314	1031	2448	2617
Uttarakhand	1849	2649	3531	4500	4548	2543	3481
West Bengal	6550	6386	8713	8816	12053	9163	9466
All India	192067	200750	198147	325042	413242	476274	371610

Table 8.26 Value of output of Fennel, Statewise

Rs in lakhs

State	At 2011-12 prices						
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Gujarat	27404	26596	25247	20666	44420	40032	36375
Rajasthan	51976	9138	8713	12144	18741	34313	12174
Uttar Pradesh	0	0	0	391	369	369	419
West Bengal	1024	1014	1014	1014	1014	1004	1034
All India	80404	36749	34973	34215	64545	75719	50001

At current prices

State	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
	Gujarat	27404	31769	37969	32230	63932	49827
Rajasthan	51976	8108	9792	16880	30742	64564	24440
Uttar Pradesh	0	0	0	348	505	505	573
West Bengal	1024	834	963	1079	1068	998	1028
All India	80404	40710	48724	50538	96247	115894	73454

Table 8.27 Value of output of Cumin, Statewise

Rs in lakhs

State	At 2011-12 prices						
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Gujarat	361032	394144	389553	507323	418686	395118	534896
Rajasthan	216864	215063	285136	147346	244928	252357	369412
West Bengal	1003	1003	996	996	963	970	976
All India	578899	610210	675685	655665	664577	648444	905284

State	At current prices						
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Gujarat	361032	296924	256875	395634	410145	419482	561990
Rajasthan	216864	223399	285137	144068	283985	329424	493903
West Bengal	1003	908	1377	1417	2842	2377	2441
All India	578899	521231	543389	541119	696972	751283	1058334

Table 8.28 Value of output of Ajwan, Statewise

Rs in lakhs

State	At 2011-12 prices						
	2011-12	2012-13	2013-14	201415	2015-16	2016-17	2017-18
Andhra Pradesh	2297	1870	3194	1885	4602	2883	2887
Rajasthan	17893	12534	9159	8617	4641	10471	8680
Telangana	1134	0	518	341	4055	4059	610
All India	21323	14404	12871	10844	13299	17413	12176

At current prices

State	2011-12	2012-13	2013-14	201415	2015-16	2016-17	2017-18
	Andhra Pradesh	2297	1322	2573	2129	6064	3686
Rajasthan	17893	9752	8123	9379	5791	13777	10177
Telangana	1134	0	600	411	5051	5596	858
All India	21323	11074	11296	11919	16906	23058	14132

Table 8.29 Value of output of Fenugreek, Statewise

Rs in lakhs

State	At 2011-12 prices						
	2011-12	2012-13	2013-14	201415	2015-16	2016-17	2017-18
Gujarat	4487	4487	4500	3243	4555	4821	4349
Haryana	2790	2059	1430	2130	2059	2166	2166
Rajasthan	20684	16940	15173	19928	45061	37384	19208
West Bengal	859	859	859	859	855	842	891
All India	28819	24345	21961	26160	52530	45213	26614

State	At current prices						
	2011-12	2012-13	2013-14	201415	2015-16	2016-17	2017-18
Gujarat	4487	4024	4560	5625	7522	5088	4090
Haryana	2790	2211	1706	2990	3323	3535	3535
Rajasthan	20684	18189	18103	42264	109557	91939	42094
West Bengal	859	870	848	886	1975	2100	2305
All India	28819	25294	25216	51765	122378	102663	52025

Table 8.30 Major Seed spices (Coriander, aniseed, badian and fennel) producing countries in the world

County	2015			2016			2017			2018			2019		
	Area (ha)	Prod (tonnes)	Yield (kg/ha)	Area (ha)	Prod (tonnes)	Yield (kg/ha)	Area (ha)	Prod (tonnes)	Yield (kg/ha)	Area (ha)	Prod (tonnes)	Yield (kg/ha)	Area (ha)	Prod (tonnes)	Yield (kg/ha)
India	683055	546000	7993	884000	632000	7149	1546000	1529000	9890	1564000	1503000	9610	1587000	1448000	9124
Mexico	6473	68941	106505	7039	80264	114028	7578	132565	174934	7712	127244	164995	7099	100560	141654
Syrian Arab Republic	55700	27700	4973	55700	27700	4973	215362	116436	5407	192974	141943	7356	174379	82685	4742
Iran	6862	63377	92359	6047	63409	104860	6399	63915	99883	6215	65856	105963	6381	67797	106248
China, mainland	40304	52500	13026	40862	54019	13220	41629	55817	13408	42375	57616	13597	43101	59414	13785
Turkey	42871	27844	6495	42341	30583	7223	43869	32738	7463	54389	39277	7221	63216	46104	7293
Russian Federation	104506	99869	9556	107651	89260	8292	55385	48488	8755	21082	10146	4813	49233	37578	7633
Egypt	31852	28187	8849	32308	28596	8851	32663	28988	8875	33017	29380	8898	33368	29772	8922
Morocco	24918	27104	10877	25241	27620	10943	25435	27926	10979	25627	28231	11016	25818	28537	11053
Afghanistan	25000	18000	7200	25787	18005	6982	28398	19490	6863	26725	18436	6898	27562	19025	6903
Canada	14434	12635	8754	14568	12637	8674	14828	12983	8756	15082	13328	8837	15333	13674	8918
Tunisia	13617	10769	7908	13744	10919	7945	13796	10982	7960	13847	11044	7976	13899	11107	7991
Ethiopia	5900	4700	7966	6000	4800	8000	6933	5628	8118	7892	6590	8350	7170	6123	8540
Argentina	8431	7290	8647	9922	8700	8768	8528	7539	8840	7338	6540	8913	6502	5841	8983
Viet Nam	6796	4370	6430	6882	4394	6385	7014	4444	6336	7149	4495	6288	7286	4546	6239
Guatemala	990	2002	20222	1089	2209	20285	1082	2245	20749	1083	2286	21108	1084	2326	21458
North Macedonia	1241	1353	10902	1250	1365	10920	1270	1400	11024	1550	1700	10968	1423	1563	10984
Ukraine	21500	20600	9581	1300	1250	9615	3500	2500	7143	1700	950	5588	1700	1460	8588
Tanzania	1490	1371	9201	1441	1363	9459	1433	1386	9672	1425	1409	9888	1418	1433	10106
Australia	989	1148	11608	1083	1259	11625	1108	1292	11661	1145	1341	11712	1182	1389	11751
Serbia	743	966	13001	774	1016	13127	787	1035	13151	809	1066	13177	831	1098	13213
Bosnia and Herzegovina	715	744	10406	723	751	10387	734	784	10681	740	802	10838	746	819	10979
Palestine	283	205	7244	278	201	7230	283	207	7314	288	212	7361	292	218	7466
Lebanon	50	92	18400	50	91	18200	50	91	18200	50	91	18200	50	91	18200
Malawi	143	81	5664	141	81	5745	144	83	5764	147	85	5782	149	88	5906
Zimbabwe	122	89	7295	116	86	7414	112	84	7500	108	82	7593	105	80	7619
Kenya	192	76	3958	209	82	3923	214	82	3832	202	77	3812	209	78	3732
Madagascar	33	45	13636	77	105	13636	54	74	13704	36	56	15556	37	59	15946
Ecuador	27	11	4074	29	12	4138	29	12	4138	30	12	4000	30	12	4000
Peru	354	252	7119	331	258	7795	83	66	7952	87	70	8046	6	5	8333
Total (including others)	1151106	1082290	565021	1343755	1165558	582712	2108759	2153312	637462	2034824	2073365	534360	2076609	1971482	516309

8. Tree Spices

9.1 Trend in area, production and productivity of major tree spices for the last twenty years

Year	Clove			Tamarind			Nutmeg		
	Area (‘000 ha)	Production (‘000 tonnes)	Productivity (kg/ha)	Area (‘000 ha)	Production (‘000 tonnes)	Productivity (kg/ha)	Area (‘000 ha)	Production (‘000 tonnes)	Productivity (kg/ha)
2001-02	1.891	1.048	554	61.336	188.881	3079	7.850	1.990	254
2002-03	2.076	1.369	659	61.958	178.973	2889	8.700	2.210	254
2003-04	2.444	1.809	740	61.331	175.256	2858	10.020	2.550	254
2004-05	2.231	1.469	658	61.624	194.030	3149	11.090	2.860	258
2005-06	1.981	1.003	506	60.628	189.216	3121	11.330	2.900	256
2006-07	2.146	1.015	473	58.046	184.281	3175	13.839	11.517	832
2007-08	2.251	1.005	446	55.036	182.080	3308	15.257	11.370	745
2008-09	2.171	1.002	462	59.856	204.832	3422	16.446	11.406	694
2009-10	2.203	0.938	426	60.076	206.924	3444	16.195	11.425	705
2010-11	2.195	0.964	439	56.572	203.984	3606	17.744	12.015	677
2011-12	2.101	1.114	530	60.681	205.113	3380	18.607	12.218	657
2012-13	2.078	1.136	547	58.459	189.554	3243	18.891	12.731	674
2013-14	2.266	1.208	533	51.738	201.758	3900	20.107	13.458	669
2014-15	2.377	1.251	526	49.125	194.840	3966	21.122	14.400	682
2015-16	2.335	1.202	515	47.656	190.783	4003	22.362	15.169	678
2016-17	2.202	1.227	557	49.663	202.149	4070	22.751	14.016	616
2017-18	2.315	1.239	535	45.336	175.443	3870	23.880	15.547	651
2018-19	2.154	1.226	569	45.210	147.821	3270	23.703	15.353	648
2019-20	2.043	1.144	560	44.098	163.315	3703	24.248	15.688	647
2020-21	2.151	1.192	554	43.617	158.502	3634	23.347	14.923	639

Table 9.2 (a) State-wise area, production and productivity of Tamarind in India 2013-14 to 2016-17
(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	4.768	12.636	2,650	4.584	11.453	2,498	4.832	11.100	2,297	4.666	20.346	4,360
Karnataka	16.800	87.000	5,179	16.800	87.000	5,179	14.897	72.150	4,843	15.000	70.500	4,700
Kerala	13.172	44.680	3,392	11.240	37.300	3,319	11.550	39.732	3,440	11.549	37.498	3,247
Madhya Pradesh										0.599	6.963	11,630
Maharashtra	0.660	4.576	6,933	0.713	5.908	8,286	0.720	7.154	9,936	0.748	7.146	9,553
Mizoram	0.010	0.026	2,600	0.010	0.026	2,600	0.010	0.026	2,600	0.010	0.026	2,600
Nagaland												
Tamil Nadu	15.650	48.805	3,119	15.283	47.545	3,111	15.349	47.838	3,117	15.032	46.917	3,121
Telangana	0.617	3.738	6,058	0.435	5.316	12,221	0.239	12.494	52,276	2.000	12.494	6,247
Pondicherry	0.061	0.297	4,869	0.060	0.292	4,867	0.059	0.289	4,898	0.059	0.259	4,390
Total	51.738	201.758	3,900	49.125	194.840	3,966	47.656	190.783	4,003	49.663	202.149	4,070

Table 9.2 (b) State-wise area, production and productivity of Tamarind in India 2017-18 to 2020-21
(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2020-21		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Andhra Pradesh	4.384	10.317	2353	4.322	18.091	4186	4.497	13.196	2934	3.635	9.628	2649
Karnataka	12.174	58.000	4764	11.888	35.376	2976	11.042	40.026	3625	11.042	40.026	3625
Kerala	10.606	36.466	3438	9.984	24.036	2407	9.962	34.406	3454	10.713	33.824	3157
Madhya Pradesh	0.805	7.851	9750	0.832	8.029	9647	0.873	8.970	10272	0.909	9.621	10590
Maharashtra	0.718	4.663	6494	0.699	4.239	6064	1.106	8.988	8127	0.732	7.717	10542
Mizoram										0.010	0.026	2600
Nagaland										0.007	0.142	20286
Tamil Nadu	14.581	45.349	3110	15.366	44.532	2898	14.527	44.667	3075	14.501	44.659	3080
Telangana	2.000	12.494	6247	2.040	12.994	6370	2.013	12.661	6290	2.013	12.661	6289
Pondicherry	0.058	0.277	4776	0.057	0.302	5298	0.056	0.180	3214	0.055	0.198	4931
Total	45.336	175.443	3870	45.210	147.821	3270	44.098	163.315	3703	43.617	158.502	3634

Table 9.3 (a) State-wise area, production and productivity of Clove in India 2013-14 to 2016-17
(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Karnataka	0.122	0.170	1,393	0.122	0.170	1393	0.122	0.170	1393	0.122	0.170	1393
Kerala	1.018	0.077	76	1.073	0.077	72	1.082	0.078	72	1.068	0.077	72
TamilNadu	0.970	0.956	986	1.026	0.999	974	0.975	0.949	973	0.970	0.943	972
Andaman & Nicobar	0.156	0.005	34	0.156	0.005	34	0.156	0.005	34	0.042	0.037	886
Total	2.266	1.208	533	2.377	1.251	526	2.335	1.202	515	2.202	1.227	557

Table 9.3 (b) State-wise area, production and productivity of Clove in India 2017-18 to 2020-21
(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2020-21		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Karnataka	0.225	0.167	742	0.186	0.143	769	0.097	0.092	948	0.097	0.092	948
Kerala	1.015	0.072	71	0.882	0.063	72	0.854	0.071	83	1.001	0.071	71
TamilNadu	1.025	0.995	971	1.048	1.015	969	1.055	0.978	927	1.039	1.008	970
Andaman & Nicobar	0.050	0.005	100	0.038	0.004	110	0.037	0.003	74	0.014	0.021	1502
Total	2.315	1.239	535	2.154	1.226	569	2.043	1.144	560	2.151	1.192	554

Table 9.4 a) State-wise area, production and productivity of Nutmeg in India 2013-14 to 2016-17

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2013-14			2014-15			2015-16			2016-17		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Kerala	19.630	13.210	673	20.627	14.190	688	21.678	14.902	687	22.065	13.746	623
Karnataka	0.147	0.150	1,020	0.160	0.110	688	0.320	0.200	625	0.300	0.200	667
Goa	0.170	0.050	294	0.170	0.050	294	0.193	0.007	36	0.205	0.010	49
TamilNadu	0.090		-	0.095			0.090			0.100		
Maharashtra							0.011	0.012	1,091	0.011	0.012	1,091
A & N Islands	0.070	0.048	679	0.070	0.050	714	0.070	0.048	679	0.070	0.048	679
Total	20.107	13.458	669	21.122	14.400	682	22.362	15.169	678	22.751	14.016	616

Table 9.4 b) State-wise area, production and productivity of Nutmeg in India 2017-18 to 2020-21

(Area: '000 ha, Production: '000 tonnes, Yield: kg/ha)

State	2017-18			2018-19			2019-20			2020-21		
	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield	Area	Production	Yield
Kerala	22.701	14.682	647	22.771	14.598	641	23.329	15.010	643	22.512	14.342	637
Karnataka	0.716	0.641	895	0.499	0.547	1,096	0.420	0.541	1,288	0.420	0.541	1,288
Goa	0.221	0.011	50	0.201	0.010	50	0.229	0.017	74	0.235	0.019	81
TamilNadu	0.090			0.132	0.080	606	0.170			0.174	0.020	115
Maharashtra	0.097	0.118	1,216	0.097	0.118	1,216	0.097	0.118	1,216			
A & N Islands	0.055	0.095	1,727	0.003	0.000	68	0.003	0.002	609	0.006	0.001	1,216
Total	23.880	15.547	651	23.703	15.353	648	24.248	15.688	647	23.347	14.923	1,216

Table 9.5 District-wise area, production and productivity of Nutmeg in Kerala 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Thiruvananthapuram	132	63	477	101	40	396	92	41	446	85	38	448	87	39	448
Kollam	75	33	440	71	29	408	81	34	420	80	30	380	85	37	435
Pathanamthitta	521	273	524	529	222	420	591	282	477	555	246	443	586	209	357
Alappuzha	320	108	338	328	114	348	328	153	466	304	102	335	345	113	328
Kottayam	2136	1516	710	2209	1305	591	2456	1482	603	2650	1591	600	2448	1444	590
Idukki	3221	1997	620	3440	1933	562	3693	2636	714	3652	2187	599	4142	3558	859
Ernakulam	6614	5751	870	6575	4967	755	6378	5020	787	6671	5361	804	6637	5214	786
Thrissur	6796	4171	614	6920	4011	580	6976	3944	565	6897	4068	590	6777	3448	509
Palakkad	357	141	395	354	173	489	348	169	486	366	167	457	413	150	363
Malappuram	367	155	422	425	177	416	493	178	361	469	222	473	479	172	359
Kozhikode	543	268	494	609	447	734	777	394	507	582	315	542	782	350	448
Wayanad	160	60	375	122	46	377	105	45	429	113	25	222	87	31	356
Kannur	277	162	585	224	122	545	241	154	639	210	112	535	302	140	464
Kasaragod	159	204	1283	158	160	1013	142	150	1056	137	133	972	159	106	667
State	21678	14902	687	22065	13746	623	22701	14682	647	22771	14598	641	23329	15011	643

Table 9.6 District-wise area, production and productivity of Clove in Kerala 2010 to 2014

District	2015-16			2016-17			2017-18			2018-19		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Thiruvananthapuram	24	2	83	17	1	59	13	1	77	12	1	77
Kollam	13	1	77	12	1	83	8	1	125	10	1	125
Pathanamthitta	11	1	91	10	1	100	9	1	111	8	1	111
Alappuzha	2	1	500	3	2	667	1	1	1000	1	1	1000
Kottayam	117	10	85	81	7	86	82	7	85	80	7	85
Idukki	767	49	64	799	51	64	788	50	63	675	43	63
Ernakulam	4	1	250	6	2	333	5	2	400	4	2	400
Thrissur	10	2	200	9	2	222	6	1	167	4	1	167
Palakkad	9	2	222	6	1	167	5	1	200	7	1	200
Malappuram	4	1	250	4	1	250	5	1	200	4	1	200
Kozhikode	45	3	67	61	4	66	48	3	63	30	2	63
Wayanad	38	2	53	24	1	42	23	1	43	20	1	43
Kannur	10	1	100	10	1	100	11	1	91	17	2	91
Kasaragod	28	2	71	26	2	77	11	1	91	10	1	91
State	1082	78	72	1068	77	72	1015	72	71	882	63	72

Table 9.7 District-wise area, production and productivity of Tamarind in Kerala 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Thiruvananthapuram	849	3398	4002	766	2961	3866	676	2728	4036	669	2699	4038	623	2517	4040
Kollam	512	1068	2086	484	1231	2543	407	1050	2580	399	1028	2577	383	987	2577
Pathanamthitta	213	571	2681	205	540	2634	212	610	2877	205	590	2878	206	593	2879
Alappuzha	505	1192	2360	526	1262	2399	507	1219	2404	521	1253	2407	522	1255	2404
Kottayam	466	2204	4730	434	1798	4143	438	1645	3756	416	1561	3755	391	1467	3752
Idukki	471	1820	3864	433	1229	2838	436	1892	4339	336	1457	4337	303	1395	4604
Emakulam	633	1452	2294	589	1412	2397	594	1469	2473	557	1379	2473	580	1436	2476
Thrissur	1347	4162	3090	1473	4518	3067	1306	3978	3046	1197	3645	3045	1135	3456	3045
Palakkad	3584	15255	4256	3818	15394	4032	3338	14816	4439	3015	13382	4439	3302	14654	4438
Malappuram	1445	3778	2615	1266	2815	2224	1260	3074	2440	1328	3240	2440	1197	2921	2440
Kozhikode	733	1645	2244	749	1633	2180	702	1362	1940	619	1202	1941	615	1194	1941
Wayanad	102	419	4108	86	350	4070	71	212	2986	69	207	3008	68	204	3000
Kannur	506	2091	4132	525	1617	3080	447	1567	3506	446	1562	3504	433	1516	3501
Kasaragod	184	677	3679	195	738	3785	212	844	3981	209	831	3978	204	811	3975
State	11550	39732	3440	11549	37498	3247	10606	36466	3438	9984	34036	3409	9962	34406	3454

Table 9.8 District-wise area, production and productivity of Tamarind in Tamil Nadu 2015-16 to 2019-20

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Kancheepuram	32	128	4000	38	153	4026	25	100	4000	20	80	4000	22	88	4000
Chengalpattu													4	12	3000
Thiruvallur	13	49	3769	7	26	3714	9	34	3778	7	24	3429	6	22	3667
Cuddalore	104	502	4827	109	526	4826	103	497	4825	104	500	4808	102	492	4824
Villupuram	91	410	4505	89	401	4506	62	279	4500	69	311	4507	55	248	4509
Kallakurichi													7	22	3143
Ranipet													5	15	3000
Vellore	334	1949	5835	313	1827	5837	328	1914	5835	280	1634	5836	52	303	5827
Thirupathur													234	724	3094
Thiruvannamalai	36	200	5556	8	44	5500	8	44	5500	18	96	5333	60	330	5500
Salem	250	880	3520	244	858	3516	218	767	3518	216	765	3542	214	754	3523
Namakkal	203	774	3813	162	618	3815	171	652	3813	176	669	3801	157	598	3809
Dharmapuri	595	2077	3491	583	2035	3491	640	2234	3491	1470	1680	1143	1468	4435	3021
Krishnagiri	945	3293	3485	1037	3614	3485	977	3405	3485	894	3115	3484	808	2816	3485
Coimbatore	456	2674	5864	449	2632	5862	398	2333	5862	401	2351	5863	376	2204	5862
Thiruppur	234	1357	5799	224	1299	5799	224	1299	5799	216	1258	5824	212	1230	5802
Erode	111	645	5811	99	575	5808	92	534	5804	99	572	5778	100	580	5800
Tiruchirapalli	880	2152	2445	808	1976	2446	836	2044	2445	796	1947	2446	776	1897	2445
Karur	81	199	2457	78	192	2462	63	155	2460	85	208	2447	81	199	2457
Perambalur	116	287	2474	95	235	2474	95	235	2474	91	224	2462	91	225	2473

Continued...

District	2015-16			2016-17			2017-18			2018-19			2019-20		
	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)	Area (ha)	Production (tonnes)	Productivity (kg/ha)
Ariyalur	302	747	2474	317	784	2473	304	752	2474	284	701	2468	276	682	2471
Pudukottai	255	632	2478	217	527	2429	224	553	2469	200	495	2475	191	471	2466
Thanjavur	171	397	2322	161	376	2335	168	390	2321	218	507	2326	147	342	2327
Thiruvavur	116	273	2353	116	270	2328	116	273	2353	118	278	2356	74	174	2351
Nagapattinam	366	833	2276	368	928	2522	335	779	2325	329	769	2337	256	601	2348
Madurai	1194	3603	3018	1186	3579	3018	1203	3631	3018	1177	3553	3019	1180	3561	3018
Theni	1943	5701	2934	1960	5751	2934	1859	5454	2934	1809	5311	2936	1579	4633	2934
Dindigul	3443	10377	3014	3438	10362	3014	3301	9949	3014	3496	10538	3014	3273	9865	3014
Ramanathapuram	145	479	3303	141	466	3305	135	446	3304	139	459	3302	136	449	3301
Virudhunagar	456	1432	3140	411	1291	3141	428	1344	3140	320	1005	3141	373	1172	3142
Sivagangai	476	1515	3183	482	1534	3183	417	1327	3182	467	1486	3182	457	1454	3182
Tirunelveli	695	1599	2301	669	1539	2300	640	1472	2300	696	1600	2299	195	449	2303
Tenkasi													422	1305	3092
Thoothukudi	346	809	2338	306	715	2337	295	689	2336	303	708	2337	258	603	2337
The Nilgiris							0	0							
Kanyakumari	959	1865	1945	917	1784	1945	907	1764	1945	868	1688	1945	880	1712	1945
Total	15348	47838	3117	15032	46917	3121	14581	45349	3110	15366	44532	2898	14527	44667	3075

Table 9.9 Trend in export of Nutmeg and Mace for the last twenty years

Year	Quantity (tonnes)	Value (Rs in lakhs)
2001-02	1,346	1,990
2002-03	1,381	2,847
2003-04	1,420	2,638
2004-05	1,250	2,235
2005-06	1,530	3,117
2006-07	2,100	4,274
2007-08	1,300	2,875
2008-09	2,155	6,075
2009-10	3,275	9,187
2010-11	2,100	9,777
2011-12	3,620	24,098
2012-13	3,231	22,592
2013-14	4,450	26,286
2014-15	4,475	26,798
2015-16	4,050	20,928
2016-17	5,070	23,642
2017-18	5,500	22,094
2018-19	3,300	15,015
2019-20	2,900	13,280
2020-21	3,875	19,000

Table 9.10 Countrywise export of Nutmeg and Mace 2015-16 to 2019-20

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
U.A.E	967	4732	837	3520	1251	4943	979	4413	958	4407
Vietnam	965	5263	2084	9992	2215	8368	510	2118	66	314
U.S.A	259	1320	241	1309	257	1596	229	1404	213	1358
Nigeria	248	1160	148	739	322	1288	208	962	262	951
Egypt(A.R.E)	110	616	121	725	145	692	136	718	90	474
Israel	58	309	67	299	94	442	91	396	58	325
South Africa	84	404	97	438	56	222	45	173	67	299
Thailand	1	4	0	1	1	3	45	173	216	881
Australia	117	603	65	410	58	347	58	347	60	360
Total (Incl. Others)	4050	20928	5070	23642	5501	22094	3300	15015	2900	13280

Table 9.11 Trend in import of major tree spices in India

Year	Nutmeg		Mace		Clove		Cassia		Star anise	
	Quantity in MT	Value Rs in lakhs	Quantity in MT	Value Rs in lakhs	Quantity in MT	Value Rs in lakhs	Quantity in MT	Value Rs in lakhs	Quantity in MT	Value Rs in lakhs
2000-01	405	515	235	712	2,754	2,855	4403	2016	362	258
2001-02	391	454	168	410	5,422	16,491	10181	4374	1267	2244
2002-03	832	1138	424	1202	6,867	12,081	13632	5281	1968	2320
2003-04	640	858	357	841	15,678	13,742	9751	3054	2626	1604
2004-05	983	1352	657	1678	6,945	12,430	11899	3447	1779	982
2005-06	862	1244	525	1481	7,721	13,117	9,721	2763	2,232	1218
2006-07	913	1411	916	2407	11,748	17,752	17,002	5090	3,165	1815
2007-08	950	1625	300	790	8,450	11,910	8,900	3035	1,725	950
2008-09	1,325	2533	265	846	6,500	11,516	8,600	3567	1,375	981
2009-10	800	1687	400	1607	9,550	16,740	13,000	5662	2,750	2082
2010-11	1,460	5272	400	2560	7,000	15,337	11,000	5729	2,750	2867
2011-12	735	3173	280	3467	12,175	44,082	15655	9169	2850	4725
2012-13	720	3575	567	4937	10,105	45,188	12180	8226	4695	7482
2013-14	800	3941	700	6284	10,900	55,496	18200	13066	2695	4733
2014-15	325	1859	815	5548	14,950	77,114	21950	23014	3800	6923
2015-16	490	1955	1200	7950	20235	104542	19405	24222	4810	9051
2016-17	340	1458	1055	7284	17095	86970	22280	29062	4965	9530
2017-18	530	1817	1750	11888	19510	96759	26430	33251	7900	15107
2018-19	1195	4551	1890	15817	16940	82139	28180	42133	5825	12019
2019-20	1645	5545	1910	21137	27190	112867	30000	57288	6600	24758

Table 9.12 Monthly average price of tree spices in major market centres

Tamarind - Chennai

Price: Rs/quintal

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	9500	11500	10750	15450	12250	13000
May	9500	11500	9687	14500	12150	
June	10375	11500	9500	14900	11750	
July	10000	11500	9500	14750	11750	12500
August	8125	11450	11100	14500	11850	12625
September	9000	11460	12500	15125	12250	13000
October	9000	11500	12812	16000	12187	14000
November	9375	11312	14687	15300	12000	15250
December	10687	11500	17900	14562	12000	13850
January	13125	11500	16700	14750	12500	15500
February	12500	9687	16725	13875	12950	14750
March	11687	8800	15840	29800	13100	14250
Mean	10240	11101	13142	16126	12228	13873

Clove - Cochin

(Price: Rs/quintal)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	84500	75604	63182	68391	62000	56750
May	82104	74270	63458	69440	69538	56947
June	81109	75519	67928	72056	68587	56208
July	81115	74500	68980	74880	66519	55083
August	80971	74500	68596	73706	61660	54525
September	81875	74550	68476	72295	61026	55571
October	76595	75000	69159	72354	59250	54000
November		76270	67900	72763	57630	51956
December	76900	75896	67260	73333	55977	51913
January	76722	73120	66442	72136	55220	51442
February	76818	77217	67152	69318	55586	52636
March	76800	72595	66791	63062	26500	55660
Mean	79592	74920	67110	71145	58291	54391

Nutmeg with shell - Cochin

(Price: Rs/quintal)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	28833	18900	22500	16956	21500	19812
May	26520	18077	17917	16769	20865	NA
June	22500	17000	16000	15000	19000	18090
July	21731	17435	14942	37780	20851	18000
August	19052	26958	16500	20093	21020	20437
September	18400	22010	16932	21250	20500	21333
October	20239	22500	15717	21000	19159	20818
November	21270	20865	16500	22833	19978	21940
December	21403	20000	18250	23650	19091	28173
January	21098	23750	20442	23045	21520	24653
February	19136	27445	18152	21973	21000	25167
March	19000	24904	17750	21833	21000	29900
Mean	21599	21654	17634	21849	20457	22575

Nutmeg without shell - Cochin

(Price: Rs/quintal)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	53479	18900	22500	16956	21500	19812
May	46580	18077	17917	16769	20865	NA
June	38630	17000	16000	15000	19000	18090
July	40423	17435	14942	37780	20851	18000
August	37417	26958	16500	20093	21020	20437
September	36563	22010	16932	21250	20500	21333
October	37597	22500	15717	21000	19159	20818
November	40739	20865	16500	22833	19978	21940
December	44423	20000	18250	23650	19091	28173
January	42400	23750	20442	23045	21520	24653
February	39804	27445	18152	21973	21000	25167
March	36400	24904	17750	21833	21000	29900
Mean	41205	21654	17634	21849	20457	22575

Mace - Cochin

(Price: Rs/quintal)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	89167	54583	53382	44347	60000	111000
May	71400	52307	43480	38846	77692	NA
June	56086	50000	45000	30000	71739	75000
July	56538	42000	34375	46800	93703	91200
August	58333	43173	39807	60000	82800	102083
September	57291	45000	35000	55750	70000	108095
October	50000	45000	35435	55000	86818	100000
November	55439	45000	45000	67619	90869	101600
December	65000	45000	47826	70000	80000	132307
January	65000	50200	50000	88181	112800	117692
February	62708	59348	50000	90000	130000	118333
March	60000	49769	50000	72857	130000	147600
Mean	62247	48448	44109	59950	90535	109537

Table 9.13 Farm harvest price of Nutmeg and Clove in kerala

Nutmeg

Price: Rs/kg

Month	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
July	235	254	241	184	165	171
August	260	251	217	208	168	187
September	300	256	198	225	167	200
October	310	263	201	234	162	202
November	335	264	215	223	162	212
December	347	258	219	224	175	218
January	356	280	219	235	189	232
February	343	290	206	244	183	233
March	341	291	204	245	181	230
April	340	286	202	235	174	227
May	294	275	195	201	171	213
June	256	247	182	182	160	200
Mean	310	268	208	220	171	210

Cloves

Price: Rs/kg

Month	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
July	745	942	781	714	627	666
August	782	926	776	727	633	675
September	845	923	799	733	622	665
October	829	916	767	741	638	692
November	905	923	765	728	616	698
December	931	922	770	734	615	689
January	950	970	757	726	616	657
February	929	917	727	711	614	616
March	923	830	706	681	621	597
April	959	815	713	627	627	586
May	993	819	713	615	633	629
June	949	811	713	613	649	617
Mean	895	893	749	696	626	649

Table 9.14 Value of output of Tamarind

Rs in lakhs

State	At 2011-12 prices						
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	7330	5428	4680	4239	4110	75M	7533
Jharkhand	8983	9362	9364	9354	0	0	0
Karnataka	28196	31061	27326	26685	25759	25170	20707
Kerala	14825	10157	24541	20487	21823	20596	20029
Maharashtra	3663	3663	3663	3663	3663	2297	2818
Odisha	0	0	0	18843	18407	18436	18462
Tamil Nadu	21902	21383	19825	19313	19432	19058	18421
Telangana	1865	1559	1166	1657	3894	3893	3894
Puducherry	15	209	193	176	188	168	168
All India	86778	82821	90757	104416	97279	97156	92035

Rs in lakhs

State	At current prices						
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Andhra Pradesh	7330	4989	4743	7904	7414	14198	16961
Jharkhand	8983	9866	9842	11171	0	0	0
Karnataka	28196	32468	26181	33144	35478	36335	45415
Kerala	14825	10898	27638	25803	32916	18128	32359
Maharashtra	3663	3707	4356	4606	6487	5036	7344
Odisha	0	0	0	19700	18438	22151	24265
Tamil Nadu	21902	25847	27740	28098	30876	31823	34601
Telangana	1865	1845	1751	2260	7541	8041	8449
Puducherry	15	225	234	243	289	285	324
All India	86778	89844	102486	132929	139443	136002	169723

Table 9.15 Value of output of Nutmeg and Clove**NUTMEG**

Rs in lakhs

State	At 2011-12 prices						
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Goa	1642	15	8	8	11	15	17
Kerala	40674	42256	44563	47872	50263	46364	49521
Maharashtra	0	0	0	0	79	79	946
All India	42325	42281	44572	47879	50353	46458	50483

Rs in lakhs

State	At current prices						
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Goa	1642	65	34	38	53	75	83
Kerala	40674	42269	39686	38986	33352	29721	26734
Maharashtra	0	0	0	0	80	64	674
All India	42325	42345	39722	39024	33485	29860	27491

CLOVE

Rs in lakhs

State	At 2011-12 prices						
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Kerala	523	515	584	584	606	584	546
Andaman & Nicobar Islands	7	70	70	63	28	280	280
All India	530	585	654	647	634	864	826

State	At current prices						
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Kerala	523	499	600	675	609	551	457
Andaman & Nicobar Islands	7	70	70	74	38	391	348
All India	530	569	670	749	647	941	805

Table 9.16 Major Clove Producing Countries in the World

Country	2015			2016			2017			2018			2019		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Indonesia	535694	139641	261	545027	139611	256	559566	113178	202	569052	131014	230	569416	134792	237
Madagascar	71302	21864	307	74580	23245	312	78500	24866	317	73433	23634	322	70717	23120	327
Tanzania	7562	9044	1196	7135	8733	1224	7016	8812	1256	6889	8891	1291	6766	8970	1326
Comoros	8173	3900	477	18274	6700	367	16592	6300	380	17840	6900	387	16428	6471	394
Sri Lanka	6471	6000	927	6842	8298	1213	7177	7292	1016	6354	5508	867	5937	4377	737
Kenya	2178	2196	1008	2087	2172	1041	2090	2244	1074	2096	2316	1105	2101	2387	1136
China, mainland	1064	1344	1263	991	1265	1276	1006	1311	1303	1022	1357	1328	1036	1403	1354
Malaysia	977	224	229	987	225	228	996	226	227	1005	227	226	1014	228	225
Grenada		37			38			38			39			40	
Total	633421	184250	291	655923	190287	290	672943	164267	244	677691	179886	265	673415	181788	270

Table 9.17 Major Cinnamon Producing Countries in the World

Country	2015			2016			2017			2018			2019		
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)
Indonesia	110400	91500	829	111465	92116	826	111755	91582	819	114670	90113	786	116176	89657	772
China, mainland	41671	74502	1788	41348	76222	1843	41521	78427	1889	41686	80632	1934	41843	82837	1980
Viet Nam	92375	32921	356	96697	35041	362	102544	37176	363	108387	39311	363	114224	41446	363
Sri Lanka	30658	20466	668	30130	24503	813	29415	24680	839	33094	24020	726	33924	24821	732
Madagascar	1865	3300	1769	1602	2800	1748	1961	3400	1734	2021	3475	1719	2073	3535	1705
Timor-Leste		112			113			115			116			118	
Grenada		80			81			81			82			82	
Sao Tome and Principe	229	58	253	230	58	252	231	58	251	233	58	249	234	58	248
Dominica	100	56	560	104	56	538	107	56	523	110	56	509	113	56	496
Seychelles	660	40	61	630	30	48	670	40	60	595	32	54	578	25	43
Total	277958	223035	802	282206	231020	819	288204	235615	818	300796	237895	791	309165	242635	785

Table 9.18 Major nutmeg, mace and cardamom producing Countries in the World

Country	2015				2016				2017				2018				2019			
	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)	Area (ha)	Production (tonnes)	Yield (kg/ha)		
Indonesia	164000	34300	209	178333	33305	187	196868	32842	167	229139	44100	192	231391	43970	190					
Guatemala	74013	34509	466	73664	35475	482	73476	36197	493	75917	38330	505	74689	38387	514					
India	92000	22000	239	107000	38000	355	108000	43000	398	108000	43000	398	105000	38000	362					
Nepal	12458	5166	415	12120	6439	531	12508	6521	521	12769	6849	536	15055	7954	528					
Sri Lanka	2049	896	437	1242	669	539	3744	3815	1019	3373	3602	1068	3429	3881	1132					
Lao People's Democratic Republic	8416	2975	353	8459	2977	352	8529	2998	352	8599	3020	351	8669	3042	351					
Grenada	1600	3096	1935	1680	2540	1512	1700	2775	1632	1600	2696	1685	1564	2672	1708					
Bhutan	4295	2091	487	4488	2736	610	5617	1086	193	8658	1542	178	6319	1413	224					
Tanzania	1656	758	458	1623	748	461	1602	743	464	1582	738	466	1561	733	470					
Honduras	1180	550	466	1390	690	496	1200	560	467	1150	520	452	1174	538	458					
Trinidad and Tobago	598	334	559	581	334	575	588	345	587	596	356	597	603	367	609					
Saint Vincent and the Grenadines	283	192	678	269	206	766	237	213	899	245	220	898	244	220	902					
Ethiopia	396	153	386	406	158	389	411	161	392	416	164	394	420	168	400					
Papua New Guinea	236	109	462	228	102	447	225	101	449	224	100	446	223	100	448					
Malawi	146	88	603	143	81	566	138	74	536	132	68	515	126	62	492					
Kenya	98	61	622	94	60	638	93	61	656	92	61	663	91	61	670					
Saint Lucia	90	34	378	91	34	374	93	34	366	94	35	372	95	35	368					
Malaysia	22	61	2773	23	57	2478	23	95	4130	22	105	4773	17	34	2000					
Togo	34	33	971	34	32	941	34	33	971	34	33	971	34	34	1000					
Madagascar	16	16	1000	15	16	1067	15	16	1067	14	16	1143	14	16	1143					
Dominica	7	11	1571	8	12	1500	8	12	1500	9	13	1444	10	13	1300					
Total	363593	107433	295	391891	124671	318	415109	131682	317	452665	145568	322	450728	141700	314					

10. Others

Table 10.1 Area, production and productivity of Saffron in Jammu & Kashmir

Year	Area (ha)	Production (tonnes)	Yield (kg/ha)
2013-14	3370	8.800	2.611
2014-15	3562	5.523	1.551
2015-16	3688	5.272	1.429
2016-17	3688	5.272	1.429
2017-18	3688	5.272	1.429
2018-19	3658	4.100	1.121
2019-20	3523	4.000	1.135
2020-21	3657	3.600	0.984

Table 10.2 Area, production and productivity of Mint (Mentha) in Uttar Pradesh

Year	Area (ha)	Production (tonnes)	Yield (kg/ha)
2016-17	327.357	32.736	100
2017-18	327.357	32.736	100
2018-19	333.900	34.050	102
2019-20	344.544	34.454	100
2020-21	357.983	36.304	101

Table 10.3 Monthly average price of Saffron in Delhi market**Delhi**

(Price: Rs/kg)

Month	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
April	185000	190000	170000	110000	120000	NA
May	191000	190000	170000	110000	120000	NA
June	202500	190000	162500	104000	120000	92500
July	211000	190000	158750	95000	120000	92500
August	215000	190000	148000	720000	120000	92500
September	215000	190000	135000	95000	120000	92500
October	215000	190000	135000	100000	120000	75000
November	185630	183750	135000	108750	97500	75000
December	173000	180000	135000	115000	97500	75000
January	185000	180000	127500	117500	94500	70000
February	185000	180000	127500	120000	92500	65000
March	190000	172000	113500	120000	92500	65000
Mean	196094	185479	143146	159604	109542	79500

Table 10.4 Value of out put of Saffron

State	At 2011-12 prices						
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Jammu & Kashmir	4050	3600	4050	2485	2163	2372	860
All India	4050	3600	4050	2485	2163	2372	860
At current prices							
Jammu & Kashmir	4050	4040	5850	4694	5191	6458	2749
All India	4050	4040	5850	4694	5191	6458	2749

Table 10.5 Trend in export of Spices curry powder, mint products and spice oils & oleoresins from India for the last twenty years

Year	Spices Curry powder / paste		Mint products		Spice oils and oleoresins	
	Quantity (tonnes)	Value (Rs. in lakhs)	Quantity (MT)	Value (Rs. in lakhs)	Quantity (MT)	Value (Rs. in lakhs)
2001-02	6,305	5053	11,295	48474	4,510	37311
2002-03	8,492	6894	13,589	56558	4,839	39094
2003-04	8,318	6805	10,110	39436	5,133	37992
2004-05	7,750	6610	9,300	40777	5,600	46375
2005-06	9,340	7838	14,544	81321	6,074	50557
2006-07	9,500	8693	16,250	110095	6,250	51079
2007-08	11,500	11100	21,100	128050	6,600	56300
2008-09	13,250	16375	20,500	142025	6,850	72050
2009-10	14,300	18919	19,000	118972	6,750	70875
2010-11	15,250	21051	17,450	169679	7,600	91062
2011-12	17,000	25208	14,750	222372	7,265	130438
2012-13	17,436	27516	20,039	394050	9,515	155888
2013-14	23,750	40132	24,500	343042	11,415	173325
2014-15	24,650	47626	25,750	268925	11,475	191090
2015-16	26,550	53,175	23,250	258,130	11,635	214,255
2016-17	28,500	59,910	22,300	252,750	12,100	230,775
2017-18	30,150	61,620	21,500	322,835	17,200	266,172
2018-19	33,850	74,470	21,610	374,934	12,750	219,300
2019-20	38,370	81,279	24,470	383,202	13,000	244,683
2020-21	38,450	89,145	27,400	366,825	16,450	330,675

Table 10.6 Countrywise export of Curry powders/mixtures

Country	Quantity in MT, Value Rs in lakhs											
	2015-16		2016-17		2017-18		2018-19		2019-20			
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
Coriander												
U.S.A	2628	5893	2855	7078	3222	7244	3952	9920	4595	10071		
U.A.E	3814	7974	2635	6537	3051	7391	3459	9809	5168	12003		
U.K	3215	5431	2913	5884	3146	5671	3082	7315	3836	6792		
Australia	2510	3819	945	2225	1234	3106	1217	2930	1753	4487		
Saudi Arabia	2715	5954	3212	7171	3025	6848	2685	7321	3241	7126		
Nigeria	1009	1667	1042	1571	2794	4340	1987	3476	2038	3413		
Oman	527	1572	658	1887	742	2138	554	1808	1175	3044		
Qatar	1099	2771	1017	2770	998	2562	1360	3644	1378	3438		
Canada	542	1291	813	2341	969	2607	1152	2802	1325	3798		
Kuwait	831	1974	1070	2561	1001	2216	1241	3073	1405	3288		
Total (Incl.Others)	26550	53175	28500	59910	30150	61620	33850	74470	38370	81279		

Table 10.7 Countrywise export of Spice Oleoresins and Oils

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
U.S.A	2532	61126	2768	81488	2915	84413	2521	61647	3644	90978
China	2026	24937	1719	16815	6413	43483	2266	22234	1222	12956
Germany	539	11285	631	14970	732	15081	601	11500	572	11752
France	210	7594	272	7724	350	8588	709	11279	603	14948
U.K	566	8967	632	10594	763	11919	571	9448	441	7399
Korea(South)	524	7375	562	10484	620	8759	604	8767	566	8340
Indonesia	295	3035	547	6205	589	4933	704	6800	725	7060
Japan	92	5551	132	7710	110	6133	127	6325	93	6181
Thailand	332	3990	445	6709	459	5496	541	6590	598	6742
Total (Incl.Others)	11635	214255	12100	245533	17200	266172	12750	219300	13000	244683

Quantity in MT, Value Rs in lakh

Table 10.8 Countrywise export of Mint Products

Quantity in MT, Value Rs in lakhs

Country	2015-16		2016-17		2017-18		2018-19		2019-20	
	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE	QTY	VALUE
China	9519	90343	9360	94955	10310	136796	10827	150410	12722	181580
U.S.A	4860	63289	3130	41629	3792	65433	3559	70466	3987	72196
Singapore	1892	18225	1546	15080	842	11252	1170	22516	1261	19061
Germany	1155	13304	1201	15792	929	14355	707	15615	750	12973
France	817	10957	974	12205	586	10067	533	12057	635	8695
Netherlands	639	8828	1225	16834	1230	23953	710	16570	838	11858
Japan	877	10596	872	9994	595	9257	548	11797	531	9617
Phillipines	263	3363	222	2725	192	3652	316	7767	312	6021
Indonesia	172	2000	265	3092	132	2266	513	8038	391	5279
UK	544	7082	695	9231	442	7929	404	8634	432	8263
Total (Incl.Others)	23250	258130	22300	252750	21500	322835	21610	374934	24470	383202

Table 10.9 Trend in import of spice oils and oleoresins in India

Year	Quantity (tonnes)	Value (Rs in lakhs)
2000-01	417	1893
2001-02	469	2274
2002-03	455	1940
2003-04	527	1687
2004-05	283	1097
2005-06	367	1713
2006-07	585	2350
2007-08	380	2775
2008-09	725	7431
2009-10	1,300	13775
2010-11	1,205	14492
2011-12	1580	24480
2012-13	1325	19304
2013-14	2150	32417
2014-15	2520	37381
2015-16	2005	28878
2016-17	3260	51183
2017-18	3580	51545
2018-19	3410	51314
2019-20	4980	64289

SOURCE AGENCIES OF DATA

As a nodal agency for the collection and compilation of area and production estimates of Spices and Arecanut at National level, the Directorate of Arecanut and Spices Development (DASD) under Ministry of Agriculture & Farmers Welfare, Govt of India collects these estimates from authorised agencies at State level like Department of Economics and Statistics, Dept of Horticulture / Agriculture and Dept of Land Records etc. The collected data are being compiled for estimating the all-India figures for spices as a whole and for individual spices and arecanut. These estimates are being provided to Horticulture Statistics Division of the Ministry of Agriculture & Farmers Welfare, Government of India periodically for releasing along with the estimates of horticultural crops at National level.

Source agencies for area and production estimates in each States are given below.

S.No.	State	Source Agency
1	Andhra Pradesh	Directorate of Economics and Statistics, Dept of Horticulture (only Turmeric)
2	Arunachal Pradesh	Department of Horticulture
3	Assam	Directorate of Economics and Statistics
4	Bihar	Directorate of Economics and Statistics
5	Chhattisgarh	Land Records
6	Goa	Department of Agriculture
7	Gujarat	Department of Horticulture
8	Haryana	Department of Horticulture
9	Himachal Pradesh	Directorate of Land Records
10	Jammu & Kashmir	Department of Revenue
11	Karnataka	Directorate of Economics and Statistics, Department of Horticulture
12	Kerala	Directorate of Economics and Statistics
13	Madhya Pradesh	Directorate of Horticulture and Farm Forestry
14	Maharashtra	Department of Horticulture
15	Manipur	Department of Horticulture
16	Meghalaya	Directorate of Economics and Statistics
17	Mizoram	Directorate of Economics and Statistics
18	Nagaland	Department of Horticulture
19	Orissa	Department of Horticulture
20	Punjab	Department of Horticulture
21	Rajasthan	Board of Revenue
22	Sikkim	Department of Horticulture

23	Tamil Nadu	Department of Economics and Statistics
24	Telangana	Directorate of Economics and Statistics
25	Tripura	Department of Horticulture
26	Uttar Pradesh	Department of Agriculture Statistics and Crop Insurance, Department of Horticulture
27	Uttarakhand	Department of Horticulture
28	West Bengal	Department of Food Processing Industries and Horticulture
29	Pondicherry	Directorate of Economics and Statistics
30	Andaman & Nicobar	Department of Agriculture

Source of other data like all India estimates of area & production, export, import, value of output etc are given below.

Sl. No.	Data	Source Agency
1.	All India estimates of area and production	Directorate of Arecanut and Spices Development, (DASD) Calicut
2.	Export and Import	Spices Board India, Cochin
3.	Value of Output Programme Implementation, Govt of India	National Statistical Office, Ministry of Statistics and
4.	Country wise area and production Agriculture Organisation (FAOSTAT)	International Pepper Community, Food and
5.	World pepper exports, imports and prices	International Pepper Community, Jakarta
6.	Price	Kerala State Department of Economics & Statistics; Agriculture Produce Market Committees; Spices Board India, Agmarknet
7.	Farm wholesale prices	Department of Economics and Statistics, Kerala
8.	Export of Principal Agriculture Commodities	APEDA, Department of Commerce, Govt of India

ACKNOWLEDGEMENTS

The Directorate (DASD) gratefully acknowledges the cooperation of above organizations and looks forward to their continued support in the future.



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ISBN-978-93-5526-979-9



978-93-5526-979-9