

# Indian Horticulture Database 2011



राष्ट्रीय बागवानी बोर्ड  
NATIONAL  
HORTICULTURE BOARD



# INDIAN HORTICULTURE DATABASE-2011

**Chief Editor**

**Bijay Kumar**  
Managing Director

## Editors

**N.C. Mistry**  
Addl. Managing Director

**Brajendra Singh**  
Deputy Director

**Chander P. Gandhi**  
Assistant Director (C)



राष्ट्रीय बागवानी बोर्ड  
NATIONAL  
HORTICULTURE BOARD

Ministry of Agriculture, Government of India  
85, Institutional Area, Sector - 18,  
Gurgaon - 122 015  
Website : [www.nhb.gov.in](http://www.nhb.gov.in)



**Indian Price : Rs. 700/-**

**Overseas Price : US\$ 50**  
**(Postage US\$ 5 extra)**

**Published in March - 2011**

**National Horticulture Board,  
Ministry of Agriculture,  
Government of India,  
85, Institutional Area, Sector-18,  
Gurgaon-122 015 INDIA.**

**Phone : (0124/95124) - 2342989-92, 2343414-17**  
**Fax : (0124/95124) - 2342991, 2343776**

**E-mail : [mdnhb@yahoo.com](mailto:mdnhb@yahoo.com)**  
**Website : [www.nhb.gov.in](http://www.nhb.gov.in)**

---

**ARISTO PRINTING PRESS**

**A-9, DDA Shed, Okhla Industrial Area, Phase-I,  
New Delhi-110020 Phone : 26812379, 26817038**  
**E-mail : [aristoprinting@gmail.com](mailto:aristoprinting@gmail.com)**





D.O. No. 836 /AM

कृषि एवं खाद्य प्रसंस्करण उद्योग मंत्री  
भारत सरकार

Minister of Agriculture &  
Food Processing Industries  
Government of India

15<sup>th</sup> March, 2012

SHARAD PAWAR

### MESSAGE

Horticulture data is essential for estimating the growth of the sector, to assess the demand and supply trend for horticulture produce, to identify problems and constraints in growth of the sector in order to evolve adaptive policies. In other words, the establishment of comprehensive horticulture database is a crucial requirement that would go a long way in ensuring effective monitoring of the development policies to justify huge investment being made to promote horticulture production besides undertaking perspective planning to facilitate systematic development of horticulture sector in the country. Availability of data will also lend scope to devise appropriate strategies for exploiting huge export potential available in this sector.

The National Horticulture Board (NHB) has been compiling data from various sources such as from Central Sector Scheme of Crop Estimation Survey (Fruits & Vegetables) CES (F&V), assessment made by State Directorates of Horticulture/Agriculture, Commodity Boards, APEDA, FAO etc., and after applying validation test which is firmed up by a Committee headed by the Principal Advisor (DAC). I am happy that the NHB has now come out with the latest horticulture database in the form of this publication, the "Indian Horticulture database 2011". This contains useful information about area, production and productivity of important horticulture crops and also data about domestic market price & arrivals, exports & other related information for the horticulture. This publication will serve as a useful handbook for producers, consumers, traders, importers, exporters, extension workers, researchers and policy makers.

I am sure that the efforts of NHB would go a long way in strengthening the system of Horticulture statistics in India in the tunes to come. I compliment the National Horticulture Board for bringing out the updated horticulture statistics in time.

(SHARAD PAWAR)

120, Krishna Bhawan, New Delhi-110 001 Tel.: 23383370, 23782691 Fax: 011-23384129  
Res.: 6, Janpath, New Delhi-110011 (India) Tel.: 011-23018870, 23018619 Fax: 011-23018609  
E-mail: sharadpawar.sp@gmail.com





प्रवीर कुमार बासु, आई.एस.  
सचिव  
P.K. BASU, I.A.S.  
Secretary



भारत सरकार  
कृषि विभाग  
कृषि एवं खाद्यसुरता विभाग  
Government of India  
Ministry of Agriculture  
Department of Agriculture & Cooperation

## FOREWORD

Timely availability of relevant and reliable database on horticulture is important for carrying out analysis of problems and constraints in growth of the sector and exploring growth prospects which, in turn, results in Policy Planning. As public investment in horticulture sector has increased manifold, it is necessary to ensure proper planning to facilitate systematic development of the horticulture sector in the country and monitoring of the development policies. On the other hand, in view of globalization and integration of markets, it is important for producers and the trading community to respond quickly to changes in the demand-supply chain of horticulture commodities and make positioning of the products in the market at competitive prices. From this point of view, timely availability of horticulture data is as important as the availability of accurate and reliable horticulture database so as to facilitate their business operations.

The National Horticulture Board has been bringing out the Horticulture Database Publication series which is a widely used publication for information relating to area, production and marketing of horticultural crops in the country. The present publication of NHB, the "Indian Horticulture Database 2011", contains data relating to the horticulture year 2010-11 ending June 2011. This publication not only contains information about area, production and productivity of important horticulture crops, but also has data about domestic market price and arrivals, leading exporting countries, international specifications about export of various products, important varieties and growing seasons of such crops. This publication will be a valuable reference book for producers, consumers, traders, importers, exporters, extension workers, researchers and other stakeholders.

I compliment Shri Bijay Kumar, Managing Director, NHB and his team for their sincere efforts in bringing out this publication. I am sure NHB will do the needful for strengthening the system of revalidation of data generated by the prevailing methodology.

  
(P.K. Basu)

March 13, 2012



**S. BHAVANI, IES**

Principal Adviser

Tel. : 011-23382719

Fax : 011-23073225

Email : sbhavani@nic.in



कृषि एवं सहकारिता विभाग

कृषि मंत्रालय

भारत सरकार

कृषि भवन

नई दिल्ली-110 114

Department of Agriculture & Cooperation

Ministry of Agriculture

Government of India

Krishi Bhawan

New Delhi-110 114

Date: 16<sup>th</sup> March, 2012

### **MESSAGE**

Structural changes in the composition of agriculture leading to diversification of Indian agriculture, mainly into horticulture, besides other areas, is a land mark development with great challenges and unlimited opportunities. Timely availability of database on horticulture is important for carrying out an analysis of problems and constraints in growth of the sector and exploring growth prospects. As public investment in horticulture sector has increased manifold, it is necessary to ensure proper planning to facilitate systematic development of the horticulture sector in the country and monitoring of the development policies.

The present system of working out the estimates on area, production and yield of horticulture crops in India has been debated from time to time. Currently the data are collected from a variety of sources. These include State Horticulture & Agriculture Departments and respective Commodity Boards. In addition, the scheme "Crop Estimation Survey on Fruits and Vegetables (CES-F&V)" for estimating area and production of horticulture crops being implemented by Directorate of Economics & Statistics (DES), Ministry of Agriculture (MoA), Government of India covers seven fruit crops, five vegetable crops and two spice crops in eleven States. Efforts are also on to cover more crops and States to expand the scope and coverage of the Scheme. Validation to the extent feasible is done based on the available inputs from NHB, NHRDF, market arrivals, price trends and discussions with State Governments. A Review Committee in the Department of Agriculture and Cooperation considers the estimates for approval.

I hope that this publication of NHB, "Indian Horticulture Database 2011" which contains area, production and yield estimates for 2010-11, apart from the information about price and market arrivals of important crops in the major markets of the country, export data etc., would be useful to all those concerned with the horticulture sector in India.

I convey my best wishes to the agencies and personnel engaged in this extremely technical area of crop estimation, whose initiatives and efforts would go a long way in restoring the confidence of the users of the information and data documented herein.

  
(S. Bhavani)  
Principal Adviser



SUDHA MIDHA, ISS



सलाहकार (बागवानी)  
भारत सरकार, कृषि मंत्रालय  
(कृषि एवं सहकारिता विभाग)  
शास्त्री भवन, नई दिल्ली-110001

Adviser (Hort.)  
Government of India  
(Department of Agriculture & Cooperation)  
R. No. 103, B-Wing  
Shastri Bhawan, New Delhi-110001  
Phone/Fax: 011-23388658

Date: 16<sup>th</sup> March, 2012


### MESSAGE

Availability of reliable horticulture data is one of the most critical requirements for efficient policy planning and to consider impact of development programmes in this sector.

I am happy that the National Horticulture Board is releasing the next version of their regular publication "Indian Horticulture Database 2011" giving 2010-11 Horticulture data, which I am sure would help for producers, consumers, traders, importers, exporters, extension workers, researchers and other stake holders.

Collection of such data has been a challenging job considering vast diverse of Horticulture crops, practices followed in the states, varying role of State Departments of Agriculture, Horticulture and State Directorate of Economics & Statistics in generating statistics for Horticulture Sector. CDB, DASD and DCCD can play a greater role in validating relevant statistics.

Today, Information is power and key to future progress lies in strengthening informatics, developing new databases and linking with International databases and creating market intelligence. I do hope the process of collection and estimation of statistics in Horticulture sector would improve and Institutional setup strengthened with the start of 12<sup>th</sup> Five Year Plan.



(Sudha Midha)  
Adviser (Hort)





## राष्ट्रीय बागवानी बोर्ड

कृषि मंत्रालय, भारत सरकार

85 इन्स्टीट्यूशनल एरिया, सेक्टर-18, गुडगांव-122015

## National Horticulture Board

Ministry of Agriculture, Govt. of India

85, Institutional Area, Sector- 18, Gurgaon - 122015

### PREFACE


National Horticulture Board (NHB) has been regularly publishing *Annual Horticulture Database*, which is a widely used document. It is a matter of pleasure for me to bring out "**Indian Horticulture Database 2011**".

The present publication of the NHB contains area & production estimates for horticulture crops, apart from the information about price and arrival statistics of important horticulture crops in the major markets of the country, export and international production related data. The area and production figures for the horticulture crops in India as given in this book are duly approved by the Review Committee of the Department of Agriculture and Cooperation. I hope it would be a useful publication for horticultural community, policy makers, entrepreneurs and other stakeholders.

I convey my thanks to the State Departments of Horticulture / Agriculture, Directorate of Economics and Statistics (GoI), APEDA, FAO, respective Commodity Boards / Directorates and field offices of NHB for providing useful information for the purpose of compiling this publication.

I acknowledge special effort made by Smt. Sudha Midha, Adviser (Hort), Shri Chander P. Gandhi- Assistant Director (Computer) NHB and the entire team of Market Information Cell of NHB in collecting the data from the agencies concerned, analyzing and compiling them and completing the task well within allotted time frame. My special thanks are to Smt. S.Bhavani, Principal Advisor, DAC, Shri Sanjeev Chopra- Joint Secretary (NHM) and Dr. Gorakh Singh, Horticulture Commissioner for valuable contribution made by them during the process of firming up the data.

NHB welcomes suggestions to improve the content and presentation of the publication.

  
(Bijay Kumar)  
Managing Director

फोन/Tel.: (0124) - 2347439-42, 2343416-17, 2342989-92, 2343414, 2348313, 2341209, 2341239, 2343776, 2343348

फैक्स/Fax: (0124) - 234 2981, E-mail : mnhb@yahoo.com, info@nhb.gov.in

Website : [www.nhb.gov.in](http://www.nhb.gov.in)

## SYMBOLS/ASSUMPTIONS USED

<b>NA</b>	→	Data not available
<b>MT</b>	→	Metric Tones
<b>HA</b>	→	Hectare
<b>P</b>	→	Production
<b>A</b>	→	Area
<b>Rs.</b>	→	Rupees (Indian Currency)
<b>Kg.</b>	→	Kilogram
<b>MIN.</b>	→	Minimum
<b>MAX.</b>	→	Maximum
<b>AVG.</b>	→	Average
<b>T.ARRL.</b>	→	Total Arrival
<b>FRT.</b>	→	Fruits
<b>VEG.</b>	→	Vegetables
<b>F</b>	→	FAO Estimates
<b>#</b>	→	Included in Others
<b>*</b>	→	Previous Year Data
<b>-</b>	→	None of Not Available

### REFERENCE :-

- Indian Horticulture Road Map (NHB Publication)
- Indian Horticulture Data Base-(1998,1999, 2000, 2001, 2002, 2003, 2004, 2005 & 2006), NHB
- Horticulture Information Service, Monthly Bulletins, NHB
- Hand Book on Agriculture, ICAR



## CONTENTS

### CHAPTER-I FACTS & FIGURES

1.0	INDIAN HORTICULTURE PRODUCTION AT A GLANCE (1991-92 & 2001-02 TO 2010-11)	2-3
1.1	CROP WISE AREA AND PRODUCTION ESTIMATES FOR HORTICULTURAL CROPS (2008-09 TO 2009-10 & 2010-11)	4-5
1.2	CROP WISE AREA AND PRODUCTION ESTIMATES FOR PLANTATION AND SPICE CROPS (2008-09 TO 2009-10 & 2010-11)	6-7
1.3	ALL INDIA STATEWISE	
1.3.1	FRUITS	8-9
1.3.2	VEGETABLES	10-11
1.3.3	FLOWERS	12-13
1.3.4	PLANTATION CROPS	14-15
1.3.5	SPICES	16-17
1.4	YEARWISE	
1.4.1	HORTICULTURAL CROPS	18
1.4.2	FRUITS	19
1.4.3	VEGETABLES	20
1.4.4	FLOWERS	21
1.4.5	PLANTATION CROPS	22
1.4.6	SPICES	23
1.4.7	ALMOND & WALNUTS	24
1.4.8	MUSHROOM AND HONEY	24

### CHAPTER-II COMMODITY-WISE STATUS

2.1	FRUITS	
2.1.1	Apple	27-35
2.1.2	Banana	36-43
2.1.3	Citrus	44-67
2.1.3.1	Lime/Lemon	48-53
2.1.3.2	Mosambi	54-60



2.1.3.3	Orange	61-67
2.1.4	Grapes	68-75
2.1.5	Guava	76-83
2.1.6	Litchi	84-89
2.1.7	Mango	90-99
2.1.8	Papaya	100-107
2.1.9	Pineapple	108-115
2.1.10	Pomegranate	116-121
2.1.11	Sapota	122-129
2.2	VEGETABLES	
2.2.1	Brinjal	130-137
2.2.2	Cabbage	138-145
2.2.3	Cauliflower	146-153
2.2.4	Okra	154-161
2.2.5	Onion	162-169
2.2.6	Peas	170-177
2.2.7	Tomato	178-185
2.3	POTATO & TUBER CROPS	
2.3.1	Potato	186-193
2.3.2	Sweet Potato	194-197
2.3.3	Tapioca	198-201
2.4	PLANTATION CROPS	
2.4.1	Areca nut	202-203
2.4.2	Cashew nut	204-205
2.4.3	Coconut	206-207
2.4.4	Cocoa	208
2.4.5	Indian Noni Cultivation State Wise List	209

#### CHAPTER-III EXPORT OF HORTICULTURE PRODUCE

3.1	EXPORT OF HORTICULTURE PRODUCE IN INDIA	212-213
3.1.1	Export of Apple From India	214



3.1.2 Export of Banana From India	215
3.1.3 Export of Orange From India	216
3.1.4 Export of Grapes From India	217
3.1.5 Export of Guava From India	218
3.1.6 Export of Litchi From India	219
3.1.7 Export of Mango From India	220
3.1.8 Export of Papaya From India	221
3.1.9 Export of Pineapple From India	222
3.1.10 Export of Sapota From India	223
3.1.11 Export of Cabbage From India	224
3.1.12 Export of Cauliflower From India	225
3.1.13 Export of Onion From India	226
3.1.14 Export of Peas From India	227
3.1.15 Export of Tomato From India	228
3.1.16 Export of Potato From India	229
3.1.17 Export of Sweet Tomato From India	230
3.1.18 Export of Flowers From India	231
3.1.19 Export of Vegetables Seed From India	232
3.1.20 Export of Walnuts From India	233
3.1.21 Export of Dried & Preserved Vegis. From India	234
3.1.22 Export of Mango Pulp From India	235

#### CHAPTER-IV WORLD SCENARIO

##### 4.1 COUNTRY-WISE

4.1.1 Major Fruits Producing Countries in the World (2010-11)	239
4.1.2 Apple	240
4.1.3 Banana	241
4.1.4 Grapes	242
4.1.5 Mango & Guava	243
4.1.6 Orange	244
4.1.7 Papaya	245

4.1.8	Pineapple	246
4.1.9	Vegetables	247
4.1.10	Brinjal (Egg Plant)	248
4.1.11	Cabbage	249
4.1.12	Cauliflower	250
4.1.13	Okra	251
4.1.14	Onion	252
4.1.15	Potato	253
4.1.16	Tomato	254

#### CHAPTER-V EXPORT SPECIFICATIONS FOR FRUITS

5.1.1	Grapes	256-257
5.1.2	Mango	258
5.1.3	Pomegranate	258
5.1.4	Papaya	259
5.1.5	Sapota	259
5.1.6	Mandarin	260
5.1.7	Banana	260
5.1.8	Vegetables	261

#### ANNEXURES

i.	MARKET INFORMATION NETWORK - 1	265
ii.	NHB SCHEMES - AT A GLANCE - 2	266-273
iii.	LIST OF NHB OFFICES - 3	274-276
iv.	LIST OF NHB PUBLICATIONS - 4	277
v.	SOURCE OF DATA - 5	278
vi.	AVAILABILITY OF FRESH FRUITS & VEGETABLES IN INDIA - 6	
vii.	STATEWISE AREA AND PRODUCTION OF VARIOUS HORTICULTURE CROPS (2010-11) - 7	
viii.	AREA AND PRODUCTION OF VEGETABLES CROPS (2010-11) - 8	
ix.	AREA AND PRODUCTION OF VEGETABLES CROPS (2010-11) - 9	





## CHAPTER-I

# FACTS & FIGURES

## INDIAN HORTICULTURE PRODUCTION AT A GLANCE (1991-92 and 2001-02 to 2010-11)

YEAR	FRUITS		VEGETABLES		FLOWERS		NUTS	
	A	P	A	P	A	P (Loose)	A	P
1991-92	2874	28632	5593	58532	NA	NA	NA	NA
2001-02	4010	43001	6156	88622	106	535	117	114
2002-03	3788	45203	6092	84815	70	735	117	114
2003-04	4661	45942	6082	88334	101	580	106	121
2004-05	5049	50867	6744	101246	118	659	106	121
2005-06	5324	55356	7213	111399	129	654	130	149
2006-07	5554	59563	7581	114993	144	880	132	150
2007-08	5857	65587	7848	128449	166	868	132	177
2008-09	6101	68466	7981	129077	167	987	136	173
2009-10	6329	71516	7985	133738	183	1021	142	193
2010-11	6383	74878	8495	146554	191	1031	including in fruit	

YEAR	Aroma. & Medi. Crop		PLANTAION CROPS		SPICES		MUSHROOM	HONEY	GRAND TOTAL	
	A	P	A	P	A	P	P	P	A	P
1991-92	NA	NA	2298	7498	2005	1900	NA	NA	12770	96562
2001-02	NA	NA	2984	9697	3220	3765	40	10	16592	145785
2002-03	NA	NA	2984	9697	3220	3765	40	10	16270	144380
2003-04	NA	NA	3102	13161	5155	5113	40	10	19208	153302
2004-05	131	159	3147	9835	3150	4001	40	10	18445	166939
2005-06	262	202	3283	11263	2366	3705	35	52	18707	182816
2006-07	324	178	3207	12007	2448	3953	37	51	19389	191813
2007-08	397	396	3190	11300	2617	4357	37	65	20207	211235
2008-09	430	430	3217	11336	2629	4145	37	65	20662	214716
2009-10	509	573	3265	11928	2464	4016	41	65	20876	223089
2010-11	510	605	3306	12007	2940	5350	41	65	21825	240531

A = AREA (IN 000'HA)

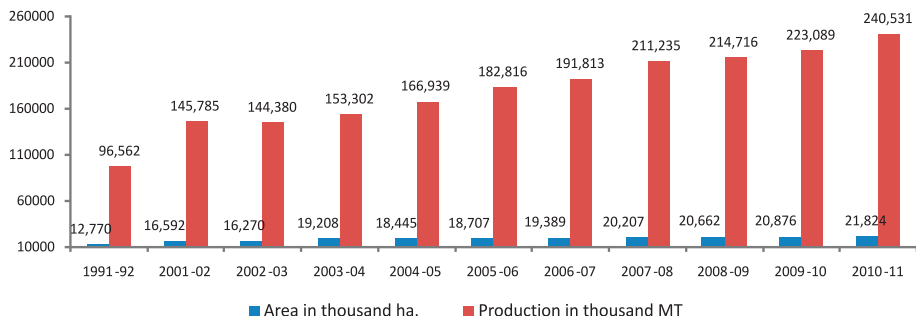
P = PRODUCTION (IN 000'MT)

2010-11 : Honey and Mushroom figures repeated.

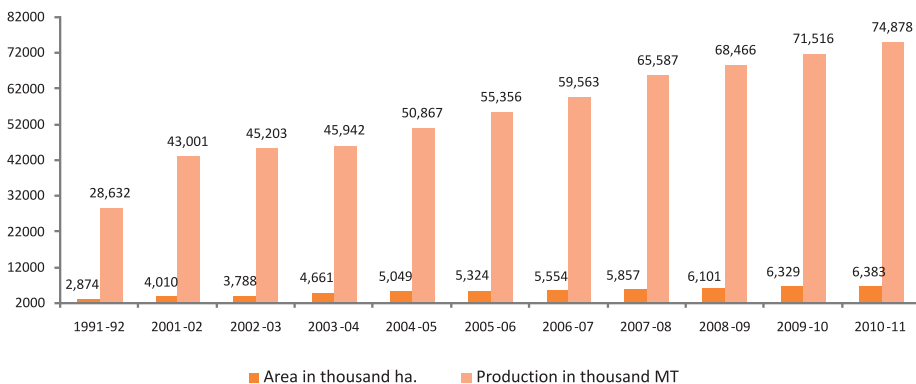
Note : Totals may slightly differ due to rounding of figures



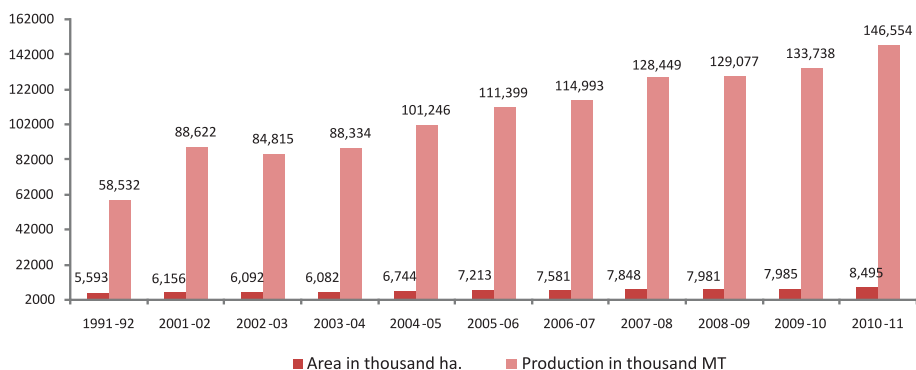
## Area and Production Growth Trends for Horticulture Crops



## Area and Production Growth Trends for Fruit Crops



## Area and Production Growth Trends for Vegetables Crops



## AREA AND PRODUCTION ESTIMATES FOR HORTICULTURE CROPS

Area in 000' HA, Production in 000' MT and Productivity = MT/HA

	2008-09			2009-10			2010-11		
	AREA	PRODUCTION	PDY.	AREA	PRODUCTION	PDY.	AREA	PRODUCTION	PDY.
<b>Fruits</b>									
Banana	709	26217	37.0	770	26470	34.4	830	29780	35.9
Mango	2309	12750	5.5	2312	15027	6.5	2297	15188	6.6
Citrus	924	8623	9.3	987	9638	9.8	846	7464	8.8
Papaya	98	3629	37.1	96	3913	40.9	106	4196	39.6
Guava	204	2270	11.1	220	2572	11.7	205	2462	12.0
Apple	274	1985	7.2	283	1777	6.3	289	2891	10.0
Pineapple	84	1341	16.0	92	1387	15.1	89	1415	15.9
Sapota	156	1308	8.4	159	1347	8.5	160	1424	8.9
Grapes	80	1878	23.6	106	881	8.3	111	1235	11.1
Pomegranate	109	807	7.4	125	820	6.6	107	743	6.9
Litichi	72	423	5.9	74	483	6.5	78	497	6.4
Others	1083	7234	6.7	1105	7201	6.5	1265	7583	6.0
<b>Fruits-Total</b>	<b>6101</b>	<b>68466</b>	<b>11.2</b>	<b>6329</b>	<b>71516</b>	<b>11.3</b>	<b>6383</b>	<b>74878</b>	<b>11.7</b>
<b>Vegetables</b>									
Potato	1828	34391	18.8	1835	36577	19.9	1863	42339	22.7
Tomato	599	11149	18.6	634	12433	19.6	865	16526	19.1
Onion	834	13565	16.3	756	12159	16.1	1064	15118	14.2
Brinjal	600	10378	17.3	590	10165	17.2	680	11896	17.5
Tapioca	280	9623	34.3	232	8060	34.8	221	8076	36.5
Cabbage	310	6870	22.1	331	7281	22.0	369	7949	21.5
Cauliflower	349	6532	18.7	338	6410	19.0	369	6745	18.3
Okra	432	4528	10.5	452	4803	10.6	498	5784	11.6
Peas	348	2916	8.4	365	3029	8.3	370	3517	9.5
Sweet Potato	124	1120	9.0	119	1095	9.2	113	1047	9.3
Others	2275	28006	12.3	2332	31724	13.6	2083	27557	13.2
<b>Veg.-Total</b>	<b>7981</b>	<b>129077</b>	<b>16.2</b>	<b>7985</b>	<b>133738</b>	<b>16.7</b>	<b>8495</b>	<b>146554</b>	<b>17.3</b>
<b>Aromatic</b>	430	430	1.0	509	573	1.1	510	605	1.2
<b>Almond/Walnut</b>	136	173	1.3	142	193	1.4		(include fruits)	
<b>Flowers Loose</b>	167	987		183	1021		191	1031	5.4
<b>Flowers Cut*</b>		47942			66671			69027	
<b>Plantation Crops</b>	3217	11336	3.5	3265	11928	3.7	3306	12007	3.6
<b>Spices</b>	2629	4145	1.6	2464	4016	1.6	2940	5350	1.8
<b>Mushroom</b>		37			41			41	
<b>Honey</b>		65			65			65	
<b>Grand Total</b>	<b>20662</b>	<b>214716</b>	<b>10.4</b>	<b>20876</b>	<b>223089</b>	<b>10.7</b>	<b>21825</b>	<b>240531</b>	<b>11.0</b>

## GROWTH TRENDS

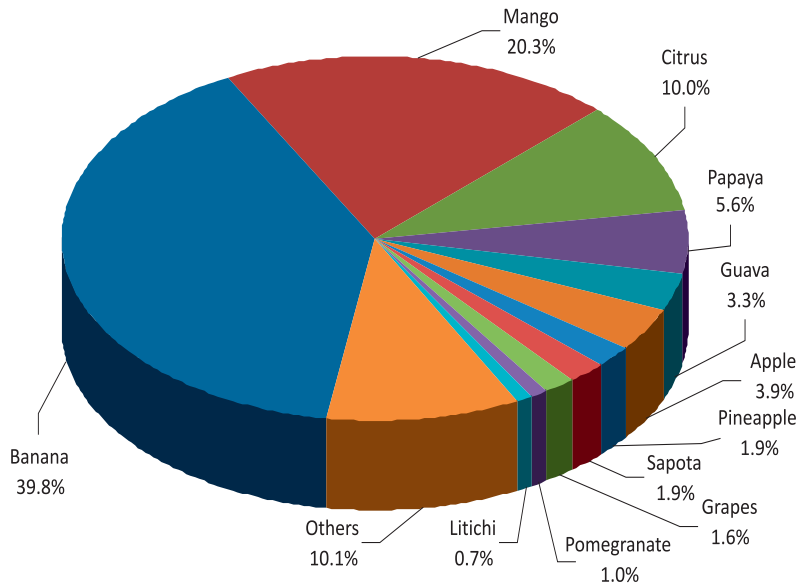
Crops	08-09 over 07-08		09-10 over 08-09		10-11 over 09-10	
Horticulture	2.25	1.65	1.0	3.9	4.5	7.8
Fruit	4.16	4.39	3.7	4.5	0.8	4.7
Vegetable	1.69	0.49	0.1	3.6	6.4	9.6

\*Lakh Numbers, not included in total and Area of Cut Flowers included in the area of loose flowers.

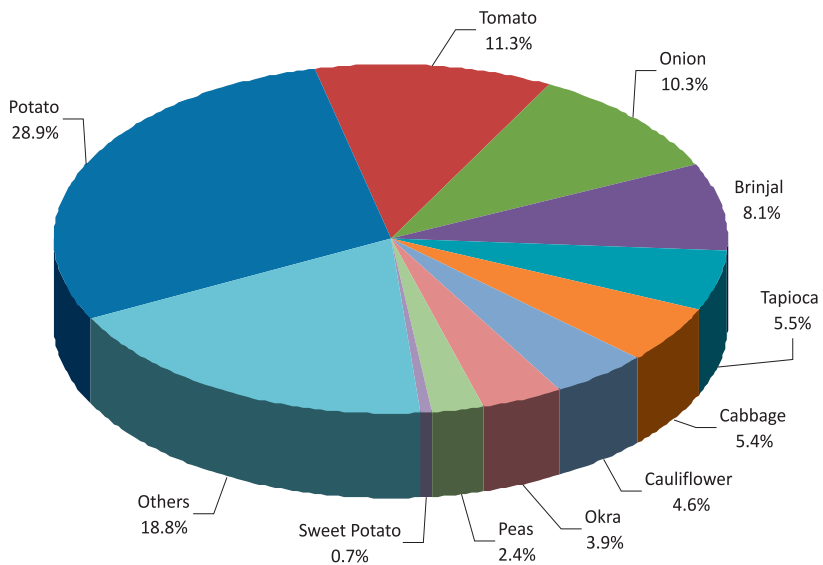
Totals may not match due to rounding off of figures.



**Production Share of Major Fruit Crops (2010-11)**



**Production Share of Major Vegetable Crops (2010-11)**





## CROP-WISE AREA, PRODUCTION AND PRODUCTIVITY OF MAJOR PLANTATION CROPS IN INDIA DURING 2008-09, 2009-10 AND 2010-11

Area in 000 ha, Production in 000 MT and Productivity = MT/HA

	2008-09			2009-10			2010-11		
	AREA	PRODUCTION	PDY.	AREA	PRODUCTION	PDY.	AREA	PRODUCTION	PDY.
COCONUT	1903.2	10148.3	5.3	1895.2	10824.3	5.7	1895.9	10840.0	5.7
CASHEWNUT	893.0	695.0	0.8	923.0	613.0	0.7	953.2	674.6	0.7
ARECANUT	387.1	481.3	1.2	400.1	478	1.2	400.1	478.0	1.2
COCOA	34	11.8	0.3	46.3	12.9	0.3	56.5	14.4	0.3
<b>TOTAL</b>	<b>3217.3</b>	<b>11336.4</b>	<b>3.5</b>	<b>3264.6</b>	<b>11928.2</b>	<b>3.7</b>	<b>3305.7</b>	<b>12007.0</b>	<b>3.6</b>

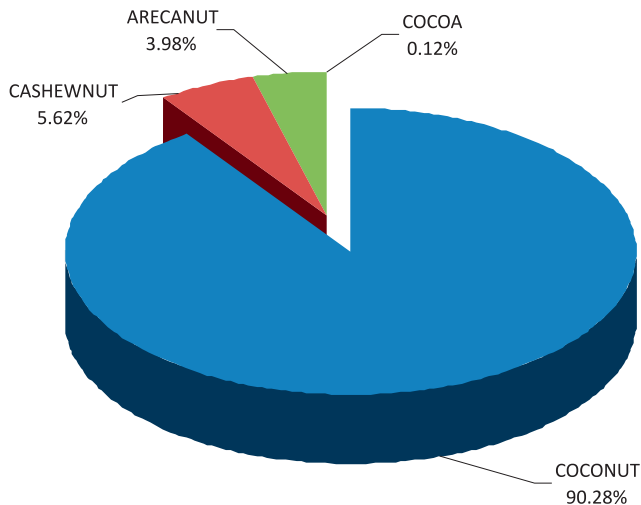
## CROP-WISE AREA, PRODUCTION AND PRODUCTIVITY OF MAJOR SPICE CROPS IN INDIA DURING 2008-09, 2009-10 AND 2010-11

Area in 000' HA, Production in 000' MT and Productivity = MT/HA

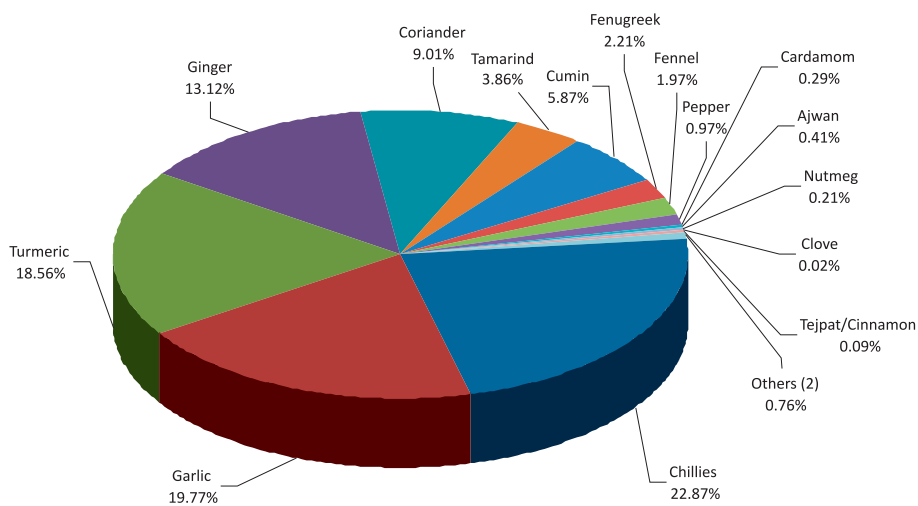
	2008-09			2009-10			2010-11		
	AREA	PRODUCTION	PDY.	AREA	PRODUCTION	PDY.	AREA	PRODUCTION	PDY.
Chillies	779.05	1269.85	1.6	767.23	1202.94	1.6	792.1	1223.4	1.5
Garlic	166.21	831.10	5.0	164.86	833.97	5.1	200.6	1057.8	5.3
Turmeric	181.09	821.16	4.5	180.96	792.98	4.4	195.1	992.9	5.1
Ginger	108.64	380.10	3.5	107.54	385.33	3.6	149.1	702.0	4.7
Coriander	396.85	242.13	0.6	360.00	236.72	0.7	530.5	482.0	0.9
Tamarind	54.63	177.68	3.3	57.99	185.46	3.2	59.6	206.3	3.5
Cumin	429.38	172.47	0.4	377.01	156.33	0.4	507.8	314.2	0.6
Fenugreek	68.29	76.58	1.1	43.25	57.44	1.3	81.2	118.4	1.5
Fennel	47.16	64.29	1.4	50.67	56.55	1.1	61.8	105.4	1.7
Pepper	238.71	47.40	0.2	195.92	51.02	0.3	183.8	52.0	0.3
Cardamom	91.99	15.45	0.2	90.20	15.72	0.2	86.7	15.7	0.2
Other seed spices	17.71	10.71	0.6	19.36	13.04	0.7	0.0	0.0	0.0
Ajwan	19.59	16.41	0.8	17.06	10.27	0.6	25.8	22.2	0.9
Nutmeg	15.27	11.37	0.7	15.05	8.00	0.5	16.1	11.4	0.7
Tejpat/Cinnamon	3.31	6.65	3.9	4.24	8.75	3.9	2.9	5.0	1.7
Clove	2.57	1.33	0.5	2.60	1.16	0.4	2.4	1.2	0.5
Others (2)	9.01	0.23	0.03	9.34	0.24	0.03	44.7	40.6	0.9
<b>Total</b>	<b>2629.44</b>	<b>4144.91</b>	<b>1.6</b>	<b>2463.29</b>	<b>4015.91</b>	<b>1.6</b>	<b>2940.4</b>	<b>5350.5</b>	<b>1.8</b>



## Production Share of Major Plantation Crops in India (2010-11)



## Production Share under Major Spices in India (2010-11)

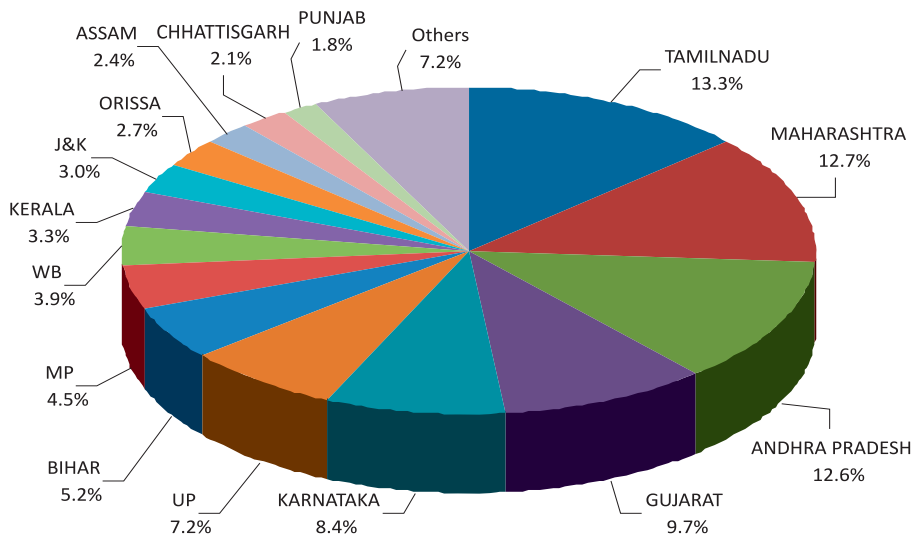


# STATE-WISE AREA, PRODUCTION AND PRODUCTIVITY OF FRUITS

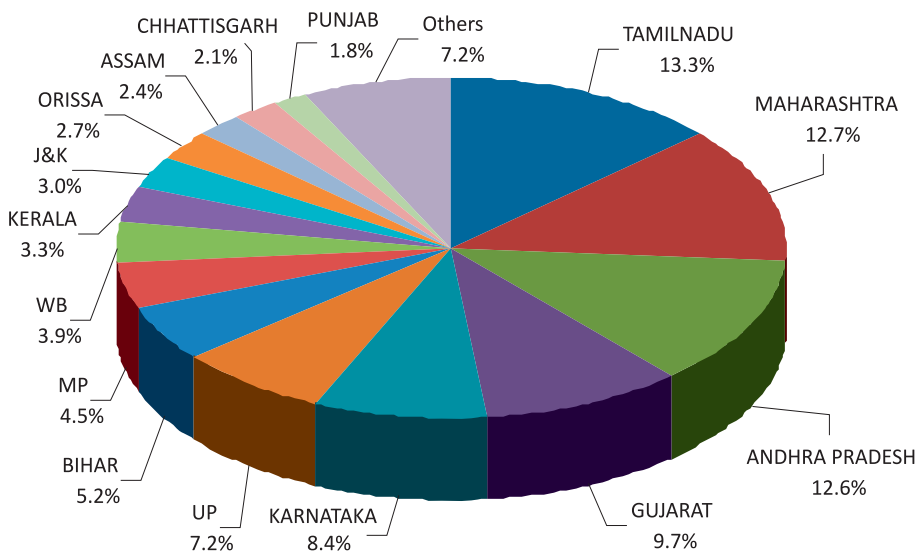
STATE/UT'S	AREA (IN 000'HA)				PRODUCTION (IN 000'MT)				PRODUCTIVITY (IN MT/HA)			
	1991-92	2001-02	2008-09	2010-11	1991-92	2001-02	2008-09	2010-11	1991-92	2001-02	2008-09	2010-11
TAMILNADU	136.2	227.5	318.6	321.8	2316.1	4342.4	8207.7	6379.0	17.0	19.1	25.8	21.9
MAHARASHTRA	256.1	582.8	1432.3	1540.6	3518.4	8840.6	10924.8	10396.6	13.7	15.2	7.6	6.7
ANDHRA PRADESH	313.1	575.8	935.9	921.1	4008.2	6157.4	11407.0	12918.3	12.8	10.7	12.2	14.0
GUJARAT	84.5	149.0	316.8	352.9	1828.9	2346.9	5822.3	6985.1	21.6	15.7	18.4	19.8
KARNATAKA	209.3	257.1	315.4	351.0	377.8	3191.8	4028.9	5269.8	15.2	15.7	16.7	16.3
UTTAR PRADESH	303.2	288.3	346.3	356.7	324.8	2449.8	2282.8	4439.6	8.1	7.9	12.8	15.1
BIHAR	266.9	272.3	290.7	293.6	296.4	2877.0	3722.8	3464.9	10.5	10.6	12.8	11.8
MADHYA PRADESH	64.7	46.6	92.4	113.1	132.3	1245.0	1143.8	2372.5	19.2	24.6	25.7	25.3
WEST BENGAL	111.3	147.6	203.2	208.3	211.6	1985.5	2775.6	2861.0	10.2	13.5	13.7	14.0
KERALA	236.3	234.5	320.8	296.7	301.3	1772.6	2558.9	2398.3	4.7	7.6	8.0	8.1
JAMMU & KASHMIR	119.1	142.2	205.1	209.8	325.6	700.8	1000.9	1538.1	5.9	7.0	7.5	7.3
ORISSA	136.3	225.0	285.8	302.1	320.7	978.0	1362.9	1532.8	7.2	6.1	5.4	6.1
ASSAM	72.3	110.8	105.2	117.3	137.5	886.4	1335.1	1574.8	12.3	12.0	15.0	13.4
CHHATTISGARH		14.4	111.7	125.3	177.0	203.1	965.7	1185.9	14.1	8.6	9.5	8.9
PUNJAB	72.7	37.5	64.8	67.6	69.8	663.8	531.7	1182.9	9.1	14.2	18.3	20.2
HIMACHAL PRADESH	157.2	223.0	193.3	208.4	214.8	339.9	263.4	624.7	2.2	1.2	3.2	1.8
JHARKHAND		31.5	72.0	37.7	72.0	321.1	395.9	577.6	10.2	10.2	5.5	15.3
UTTARAKHAND	150.5	197.5	171.7	193.8	179.3	428.7	376.1	725.3	2.8	1.9	4.2	3.7
RAJASTHAN	22.8	22.1	30.6	32.1	51.1	113.6	200.7	484.7	5.0	9.1	15.8	21.1
TRIPURA	44.9	28.3	36.5	36.9	40.8	319.1	452.1	477.2	7.1	16.0	13.1	15.6
HARYANA	13.9	31.3	37.6	41.5	46.3	110.0	235.2	263.9	303.9	7.9	7.5	7.0
MANIPUR	19.8	26.1	42.4	38.4	68.7	43.0	134.0	341.9	281.9	2.2	5.1	8.1
MEGHALAYA	24.2	24.0	32.9	32.9	30.2	218.1	186.9	294.8	9.0	7.8	8.9	8.0
MIZORAM	9.3	19.0	34.1	27.1	27.0	34.8	63.4	123.1	3.7	3.3	3.6	12.1
NAGALAND	5.2	25.0	18.2	30.8	18.2	9.2	302.0	151.3	1.8	12.1	8.3	7.3
ARUNACHAL PRADESH	20.2	41.6	57.6	72.0	72.0	47.3	124.9	108.0	2.3	3.0	1.9	1.5
GOA	11.0	10.7	11.9	11.0	84.2	64.7	88.1	78.4	7.7	6.0	7.4	7.1
ANDAMAN & NICOBAR	3.3	3.7	3.0	3.1	12.9	16.7	24.9	26.8	3.9	4.5	8.3	9.3
SIKKIM	7.7	12.3	10.5	12.2	17.5	18.8	10.3	15.7	2.4	0.8	1.5	1.5
PONDICHERRY	1.0	1.1	1.2	1.2	0.8	19.7	24.0	27.9	13.6	19.7	21.8	22.3
LAKSHADWEEP	0.30	0.30	0.35	0.4	0.4	0.50	1.10	1.24	1.2	1.67	3.67	3.54
CHANDIGARH	0.10	0.10	0.10	0.1	0.1	1.90	1.10	1.1	19.00	11.00	11.00	11.0
DELHI	0.10	0.10	0.06	0.1	0.1	0.70	1.00	0.99	1.0	7.00	10.00	17.95
DADRA & NAGAR HAVELI	0.7	0.7	1.8	1.8	0.0	7.1	7.1	19.7	10.1	10.1	10.7	10.7
DAMAN & DIU	0.30	0.40	0.02	0.0	0.0	3.10	3.40	0.02	10.33	8.50	1.35	1.4
<b>TOTAL</b>	<b>2874.5</b>	<b>4010.2</b>	<b>6100.9</b>	<b>6329.2</b>	<b>6383.0</b>	<b>28632.0</b>	<b>43000.9</b>	<b>68465.5</b>	<b>71515.5</b>	<b>74877.6</b>	<b>11.2</b>	<b>11.3</b>
									<b>10.0</b>	<b>10.7</b>		<b>11.7</b>



## Production Share-Leading Fruit Producing States (2010-11)



## Area Share-Leading Fruit Producing States (2010-11)

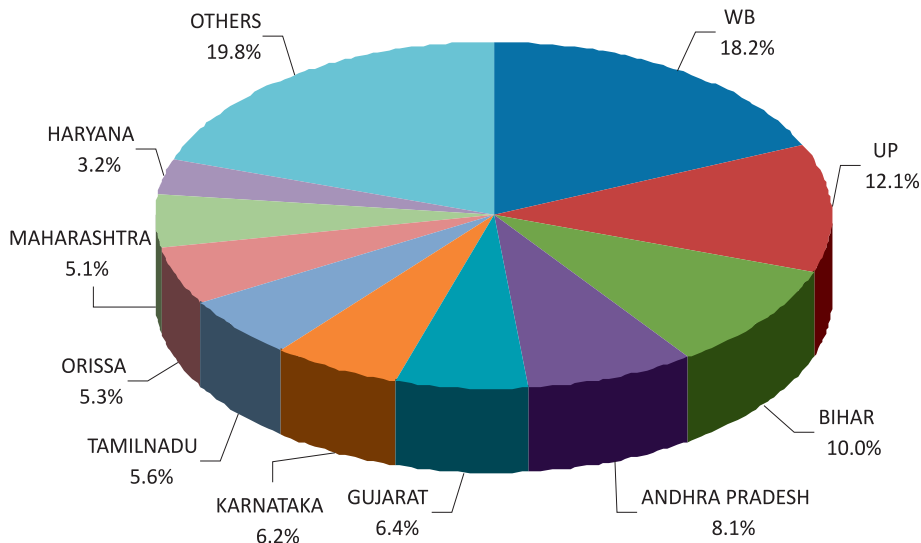


## STATE-WISE AREA, PRODUCTION AND PRODUCTIVITY OF VEGETABLES

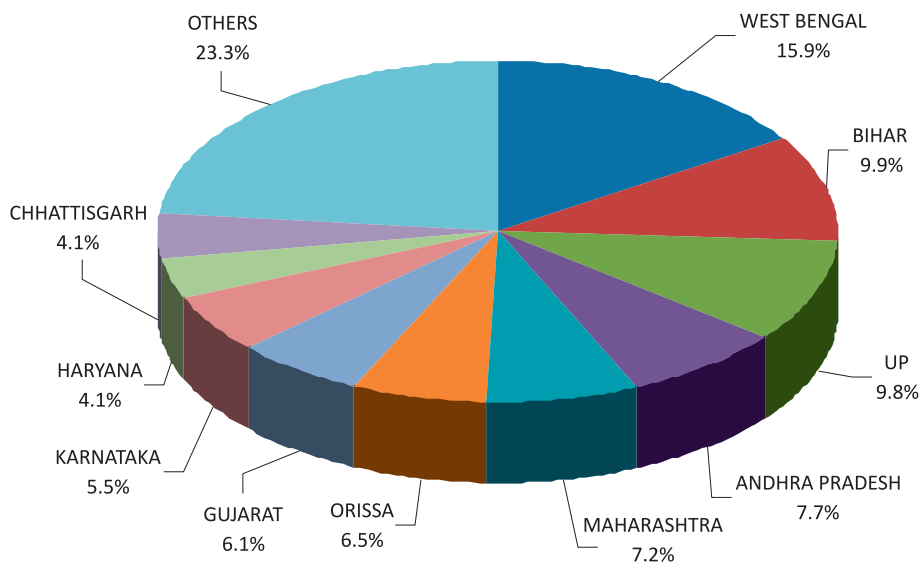
STATE/UT'S	AREA(IN 000'HA)				PRODUCTION(IN 000'MT)				PRODUCTIVITY (IN MT/HA)						
	1991-92	2001-02	2008-09	2010-11	1991-92	2001-02	2008-09	2010-11	1991-92	2001-02	2008-09	2010-11			
WEST BENGAL	456.0	1139.0	1323.6	1302.678	1349.7	4680.0	18075.3	22704.3	21906.53	26725.5	10.3	15.9	17.2	16.8	19.8
UTTAR PRADESH	576.7	777.9	987.8	1020.098	829.4	9627.3	15044.8	18950.1	22435.74	17679.4	16.7	19.3	19.2	22.0	21.3
BIHAR	843.3	578.9	826.9	836.0	845.0	8643.1	8022.9	13385.7	13906.8	14630.2	10.2	13.9	16.2	16.6	17.3
ANDHRA PRADESH	155.2	222.5	324.6	331.3	651.2	1452.6	2586.7	5267.5	5426.2	11847.6	9.4	11.6	16.2	16.4	18.2
GUJARAT	114.6	232.2	394.8	406.8	515.9	1667.9	3278.2	6807.1	7255.5	9379.5	14.6	14.1	17.2	17.8	18.2
KARNATAKA	351.1	358.1	448.0	441.2	466.3	3673.2	4173.2	7724.9	7082.2	9056.4	10.5	11.7	17.2	16.1	19.4
TAMILNADU	889.3	213.8	286.3	263.7	3796.9	5444.6	8693.5	7627.7	8279.9	4.3	25.5	30.4	28.9	29.9	14.1
ORISSA	710.3	643.4	672.5	694.2	553.8	7275.0	7447.4	8467.4	8963.6	7790.1	10.2	11.6	12.6	12.9	14.1
MAHARASHTRA	241.1	402.4	448.3	451.8	611.0	4171.3	5128.3	6368.0	6172.6	7504.0	17.3	12.7	14.2	13.7	12.3
HARYANA	60.8	150.4	298.4	300.9	346.4	877.0	2151.9	3893.4	3987.0	4649.3	14.4	14.3	13.0	13.3	13.4
CHHATTISGARH	104.1	302.6	315.4	345.8			1355.3	3041.0	3601.1	4248.8		13.0	10.1	11.4	12.3
JHARKHAND	158.5	242.1	212.1	259.5			1736.3	3637.0	3469.2	4112.4		11.0	15.0	16.4	15.8
MADHYA PRADESH	176.4	136.4	291.7	250.7	283.7	2221.0	1817.5	4105.8	3112.6	3698.6	12.6	13.3	14.1	12.4	13.0
PUNJAB	84.5	135.0	178.4	183.3	174.1	1450.0	2275.6	3410.3	3522.5	3585.8	17.2	16.9	19.1	19.2	20.6
KERALA	202.1	114.3	163.6	151.6	149.5	3229.1	2541.9	3509.4	3518.1	3392.7	16.0	22.2	21.5	23.2	22.7
ASSAM	222.4	237.4	240.1	255.2	260.1	2132.3	2935.2	2916.7	4569.9	2925.5	9.6	12.4	12.2	17.9	11.2
JAMMU & KASHMIR	180.3	50.8	60.7	69.8	69.7	745.0	728.9	1023.6	1374.2	1559.1	4.1	14.4	16.9	19.7	22.4
HIMACHAL PRADESH	38.7	34.6	74.7	79.8	80.4	476.0	639.1	1263.9	1390.7	1474.9	12.3	18.5	16.9	17.4	18.3
UTTRAKHAND	57.1	93.8	81.8	82.57	85.8	617.6	737.3	1077.6	997.285	1030.9	10.8	7.9	13.2	12.1	12.0
RAJASTHAN	62.9	99.3	125.6	131.9	140.3	307.0	432.5	736.7	1071.9	885.0	4.9	4.4	5.9	8.1	6.3
TRIPURA	30.3	31.3	25.6	32.5	36.0	306.8	353.2	294.7	446.9	532.3	10.1	11.3	11.5	13.7	14.8
DELHI	55.0	111.0	36.1	36.1	29.8	627.8	747.4	617.4	617.4	496.8	11.4	6.7	17.1	17.1	16.7
MEGHALAYA	25.9	35.7	44.3	44.3	41.8	219.2	265.9	415.8	415.8	356.5	8.5	7.4	9.4	9.4	8.5
MANIPUR	11.8	10.6	16.6	19.9	22.2	50.3	66.1	174.3	221.8	236.5	4.3	6.2	10.5	11.2	10.7
SIKKIM	7.6	14.2	21.5	28.7	23.9	46.1	60.0	98.0	147.7	120.9	6.1	4.2	4.6	5.1	5.1
MIZORAM	6.0	6.8	14.4	10.6	17.5	31.8	44.1	114.4	179.1	115.6	5.3	6.5	7.9	16.9	6.6
NAGALAND	8.2	26.3	10.4	10.4	10.7	66.9	286.0	78.3	78.3	79.4	8.2	10.9	7.5	7.5	7.4
GOA			7.6	5.7	5.7		76.0	57.6	57.8	57.8	10.0	10.1	10.1	10.1	10.1
ARUNACHAL PRADESH	17.1	20.8	23.8	4.2	4.2	79.9	83.9	110.0	38.5	38.5	4.7	4.0	4.6	9.1	9.2
ANDAMAN & NICOBAR	3.4	3.1	4.0	5.2	5.7	13.2	15.8	30.8	41.5	34.5	3.9	5.1	7.8	8.0	6.1
LAKSHADWEEP	0.4	0.2	0.4	0.4	0.4	0.4	0.2	14.1	14.1	14.1	1.0	1.0	31.7	31.7	35.3
POONDICHERY	2.3	3.7	4.5	4.5	0.6	22.3	54.2	81.0	81.0	8.8	9.7	14.6	18.2	18.2	14.7
DADRA & NAGAR HAVELI	1.5	1.5	1.0	1.0	1.1	13.6	13.5	4.5	4.5	5.5	9.1	9.0	4.6	4.6	5.0
CHANDIGARH	0.3	0.1	0.1	0.1	0.1	11.1	1.7	1.7	1.7	1.7	37.0	17.0	17.0	17.0	17.0
DAMAN & DIU	0.1	0.1	0.2	0.2	0.0	0.3	1.1	0.2	0.2	0.0	3.0	11.0	1.2	1.2	1.2
TOTAL	5136.7	5016.7	6657.1	7984.8	8494.8	53852.0	70546.7	106372.5	133737.6	146554.5	10.5	14.1	16.0	16.7	17.3



## Production Share-Leading Vegetables Producing States (2010-11)



## Area Share-Leading Vegetables Producing States (2010-11)





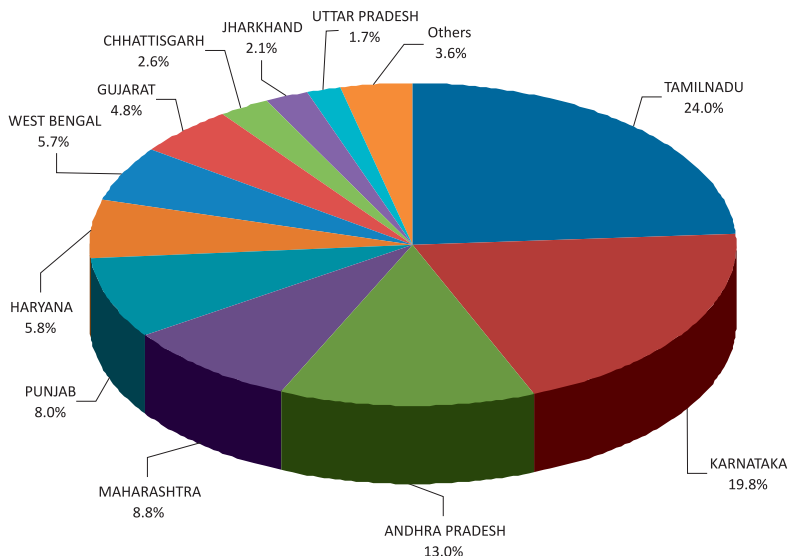
## STATE-WISE AREA AND PRODUCTION OF FLOWERS

Area in thousand HA, Production (Loose) in thousand MT, Production (Cut) in lakh Nos.

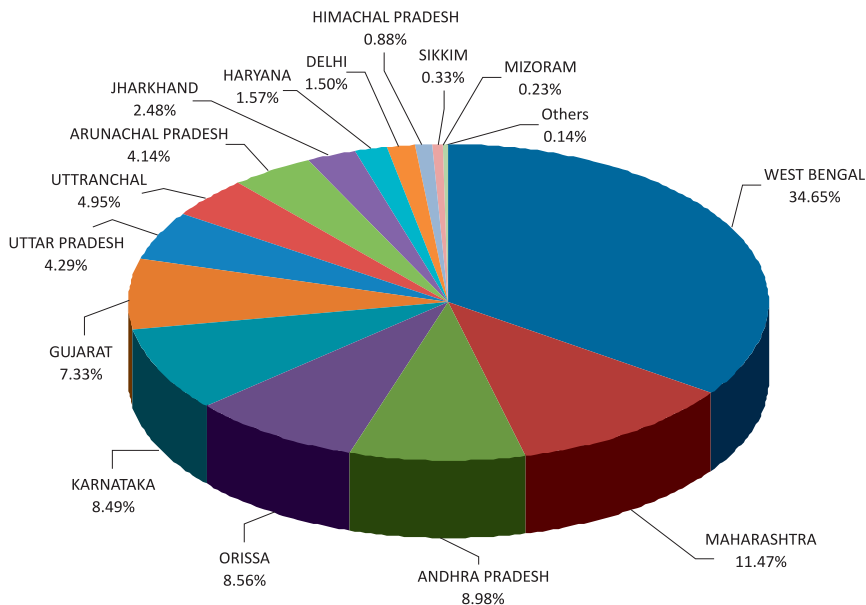
STATE/UT's	AREA (in 000 ha)			PRODUCTION (Loose in 000 MT and Cut in lakh Nos)					
	2008-09		2010-11	2008-09		2009-10		2010-11	
	AREA	AREA		LOOSE	CUT	LOOSE	CUT	LOOSE	CUT
ANDAMAN & NICOBAR	0.035	0.0	0.0	0.335		0.3			
ANDHRA PRADESH	19.5	21.4	21.8	125.0	3	130.3	6202.0	133.7	6202.0
ARUNACHAL PRADESH		1.2	1.2				2860.0		2860.0
ASSAM									
BIHAR	0.2	0.2	0.2	2.3	11	2.3	11.0	2.3	11.0
CHANDIGARH									
CHHATTISGARH	2.4	4.1	6.9	6.9		13.5	0.0	27.1	
D & N HAVELI									
DAMAN & DIU	0.0	0.0	0.0	0.007		0.0		0.0	
DELHI	5.5	5.5	5.5	5.7	1038	5.7	1038.0	5.7	1038.0
GOA									
GUJARAT	9.7	12.5	12.5	49.5	5063	49.5	5063.0	49.5	5063.0
HARYANA	5.5	6.2	6.2	53.9	929	60.3	1084.0	60.3	1084.0
HIMACHAL PRADESH	0.6	0.7	0.7	3.4	566	0.6	605.0	0.6	605.0
JAMMU & KASHMIR	0.065	0.1	0.1	0.011	20	0.2	66.3	0.2	66.3
JHARKHAND	1.600	1.6	1.6	22.0	1711	22.0	1711.0	22.0	1711.0
KARNATAKA	26.0	27.0	27.0	203.9	5867	203.9	5860.0	203.9	5860.0
KERALA									
LAKSHADWEEP	3.0	6.6	7.7	1.8		5.0		6.0	
MADHYA PRADESH	16.400	17.5	17.5	89.4	5728	91.1	7914.0	91.1	7914.0
MAHARASHTRA	0.0	0.0	0.0	0.000		0.0		0.0	
MANIPUR									
MEGHALAYA									
MIZORAM	0.2	0.0	0.1	0.000	168	0.0	142.0	0.0	162.0
NAGALAND	0.0	0.0	0.0	0.000	17	0.0	17.0	0.0	17.0
ORISSA	5.65	7.1	7.4	23.4		25.3	5356.0	3.7	5911.0
PONDICHERY	0.29	0.3	0.3	2.368		2.4		2.4	
PUNJAB	1.70	1.7	1.7	82.0		82.0		82.0	
RAJASTHAN	3.35	3.3	5.4	4.9		4.9		9.6	
SIKKIM	0.15	0.2	0.2		66		200.0		230.0
TAMILNADU	29.14	32.0	32.0	233.7		247.3		247.3	
TRIPURA									
UTTAR PRADESH	13.53	10.4	10.4	24.3	3467	17.6	2958.0	17.6	2958.0
UTTRANCHAL	0.85	1.3	1.3	0.6	2056	1.0	3414.0	2.3	3416.0
WEST BENGAL	21.07	21.9	23.1	52.008	21232	55.2	22170.0	59.2	23919.0
<b>TOTAL</b>	<b>166.52</b>	<b>182.9</b>	<b>190.9</b>	<b>987.4</b>	<b>47942</b>	<b>1020.6</b>	<b>66671.4</b>	<b>1031.3</b>	<b>69027.4</b>



## Major Loose Flower Producing States (2010-11)



## Major Cut Flower Producing States (2010-11)

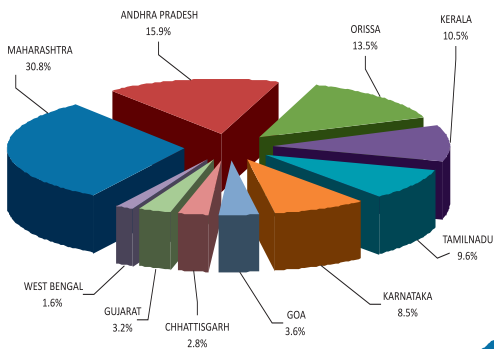


## Area in 000' HA, Production in 000' MT

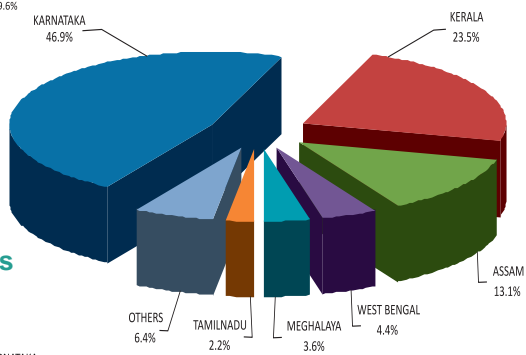
14



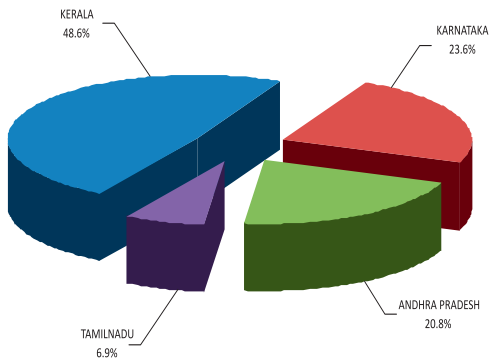
## Leading Cashewnut Producing States During 2010-11



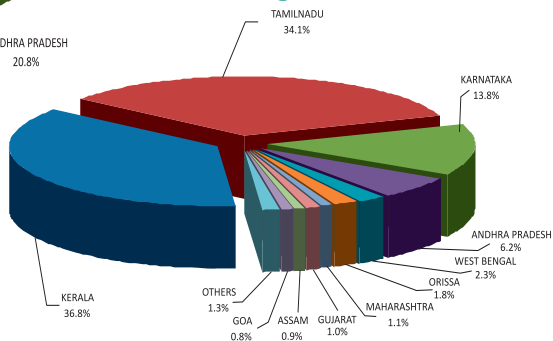
## Leading Arecanut Producing States During 2010-11



## Leading Cocoa Producing States During 2010-11



## Leading Coconut Producing States During 2010-11



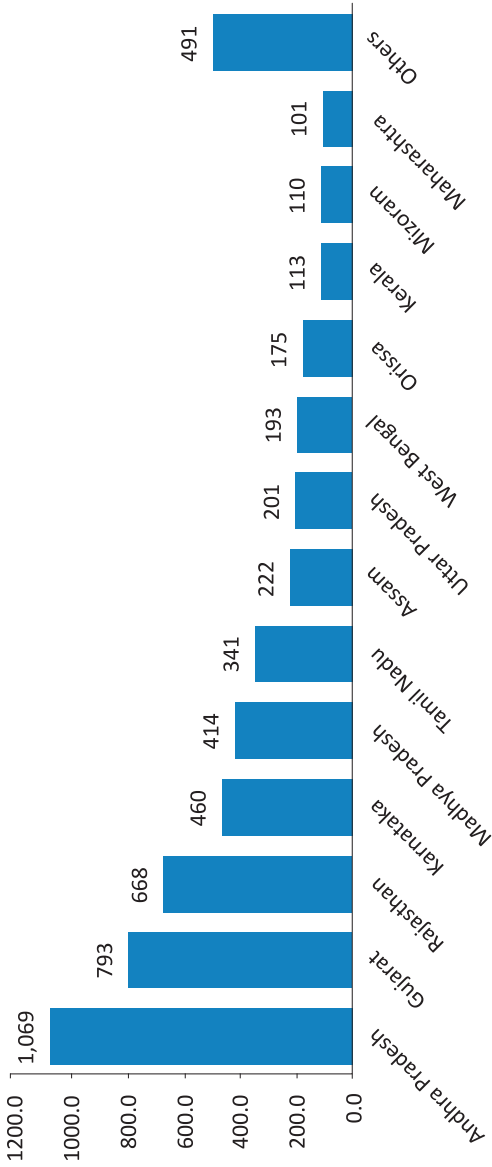
## STATEWISE AREA, PRODUCTION & PRODUCTIVITY OF MAJOR SPICES IN INDIA

Area in 000' HA, Production in 000' MT and Productivity = MT/HA

State	2008-09			2009-10			2010-11		
	Area	Prod'n.	Productivity	Area	Prod'n.	Productivity	Area	Prod'n.	Productivity
Andhra Pradesh	567.4	471.8	0.8	489.7	437.2	0.9	289.2	1069.2	3.7
Gujarat	95.9	188.4	2.0	95.9	188.4	2.0	479.4	792.6	1.7
Rajasthan	4.5	10.3	2.3	4.0	12.1	3.1	598.9	668.0	1.1
Karnataka	22.7	80.6	3.6	22.7	80.6	3.6	259.1	460.4	1.8
Madhya Pradesh	5.2	23.7	4.6	17.5	66.7	3.8	287.5	413.7	1.4
Tamil Nadu	11.6	7.2	0.6	11.6	7.2	0.6	134.3	341.2	2.5
Assam	233.5	341.7	1.5	217.7	303.2	1.4	89.2	222.1	2.5
Uttar Pradesh	3.9	0.9	0.2	3.9	0.9	0.2	56.6	200.7	3.5
West Bengal	0.0	0.0	1.2	0.0	0.0	1.2	96.9	192.9	2.0
Orissa	27.4	18.5	0.7	27.4	18.5	0.7	124.0	174.7	1.4
Kerala	16.6	69.9	4.2	17.4	72.0	4.1	234.8	113.1	0.5
Mizoram	5.1	24.5	4.8	5.1	24.5	4.8	21.4	110.5	5.2
Maharashtra	7.6	43.3	5.7	7.6	43.3	5.7	116.5	100.6	0.9
Haryana	56.5	170.1	3.0	54.8	163.0	3.0	15.1	77.9	5.2
Meghalaya	7.2	38.6	5.3	7.2	38.6	5.3	16.8	71.4	4.3
Punjab	11.3	12.4	1.1	11.3	12.4	1.1	18.4	63.5	3.4
Arunachal Pradesh	307.0	426.6	1.4	266.3	400.9	1.5	10.1	61.6	6.1
Sikkim	9.0	7.8	0.9	9.0	7.8	0.9	24.4	52.4	2.1
Uttaranchal	0.7	0.2	0.3	0.7	0.2	0.3	6.7	38.7	5.8
Nagaland	4.4	18.6	4.2	4.4	18.6	4.2	7.5	38.5	5.2
Manipur	26.6	41.7	1.6	26.6	41.7	1.6	10.5	24.1	2.3
Hima. Pradesh	301.1	126.2	0.4	264.4	136.0	0.5	6.6	19.6	2.9
Tripura	1.7	3.1	1.9	1.7	3.1	1.9	5.8	18.1	3.1
Bihar	197.0	250.4	1.3	197.1	236.3	1.2	13.0	12.5	1.0
Chhattisgarh	125.1	235.1	1.9	125.1	235.0	1.9	11.7	8.3	0.7
A & N Islands	318.4	1225.3	3.8	312.5	1159.7	3.7	1.6	3.1	1.9
J& Kashmir	113.6	96.6	0.8	113.6	96.6	0.8	3.9	0.9	0.2
Goa	146.7	198.2	1.4	146.7	198.2	1.4	0.7	0.2	0.3
Pondicherry	1.9	13.1	6.7	1.9	13.1	6.7	0.0	0.0	1.4
<b>Total</b>	<b>2629.4</b>	<b>4144.9</b>	<b>1.6</b>	<b>2463.7</b>	<b>4015.9</b>	<b>1.6</b>	<b>2940.4</b>	<b>5350.5</b>	<b>1.8</b>



Leading Spices Producing States during 2010-11 (in 000'MT)

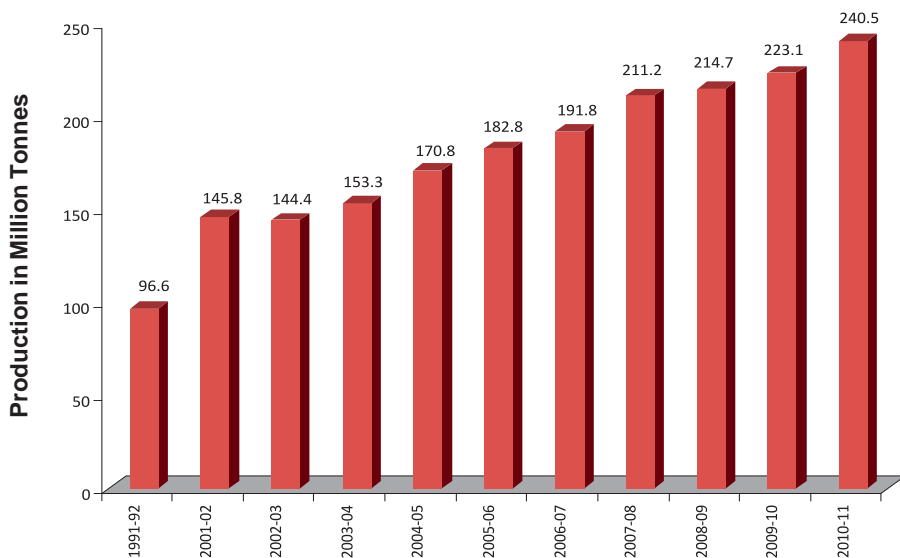




## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF HORTICULTURAL CROPS

YEAR	AREA (IN MILLION HA)	PRODUCTION (IN MILLION MT)	PRODUCTIVITY (IN MT/HA)
1991-92	12.8	96.6	7.5
2001-02	16.6	145.8	8.8
2002-03	16.3	144.4	8.9
2003-04	19.2	153.3	8.0
2004-05	21.1	170.8	8.1
2005-06	18.7	182.8	9.8
2006-07	19.4	191.8	9.9
2007-08	20.2	211.2	10.5
2008-09	20.7	214.7	10.4
2009-10	20.9	223.1	10.7
2010-11	21.8	240.5	11.0

### Indian Horticulture Production At A Glance (in Million MT)

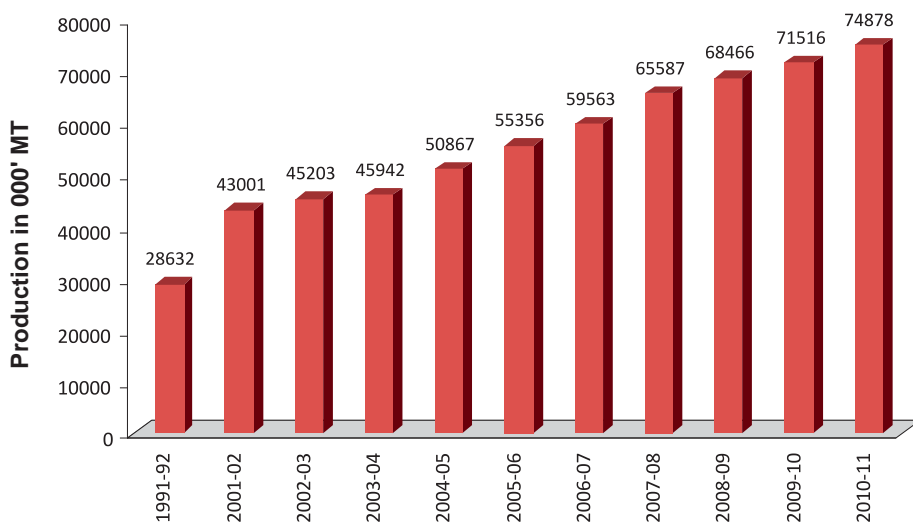




## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF FRUITS

YEAR	AREA (IN 000' HA)	PRODUCTION (IN 000'MT)	PRODUCTIVITY (IN MT/HA)
1991-92	2874	28632	10.0
2001-02	4010	43001	10.7
2002-03	3788	45203	11.9
2003-04	4661	45942	9.9
2004-05	5049	50867	10.1
2005-06	5324	55356	10.4
2006-07	5554	59563	10.7
2007-08	5857	65587	11.2
2008-09	6101	68466	11.2
2009-10	6329	71516	11.3
2010-11	6383	74878	11.7

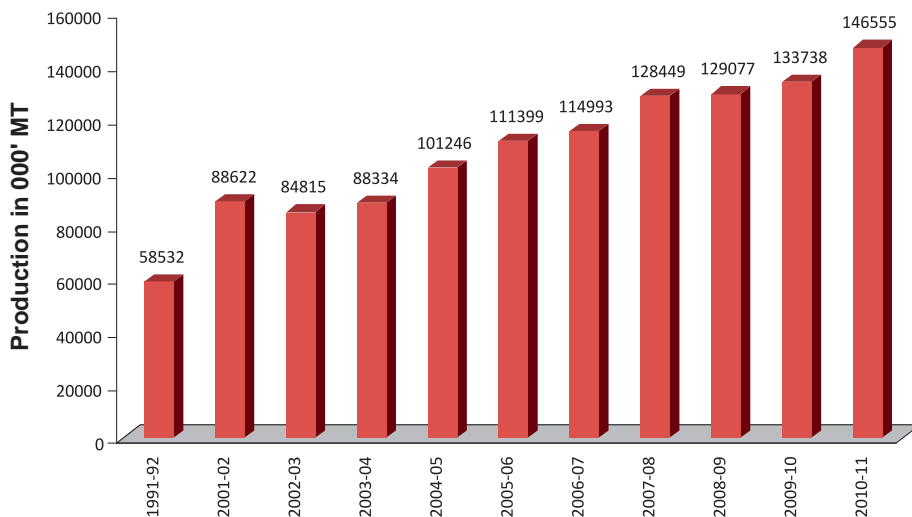
### Production Trend of Fruits in India



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF VEGETABLES

YEAR	AREA (IN 000' HA)	PRODUCTION (IN 000' MT)	PRODUCTIVITY (IN MT/HA)
1991-92	5593	58532	10.5
2001-02	6156	88622	14.4
2002-03	6092	84815	13.9
2003-04	6082	88334	14.5
2004-05	6744	101246	15.0
2005-06	7213	111399	15.4
2006-07	7581	114993	15.2
2007-08	7848	128449	16.4
2008-09	7981	129077	16.2
2009-10	7985	133738	16.7
2010-11	8495	146555	17.3

## PRODUCTION TREND OF VEGETABLES IN INDIA

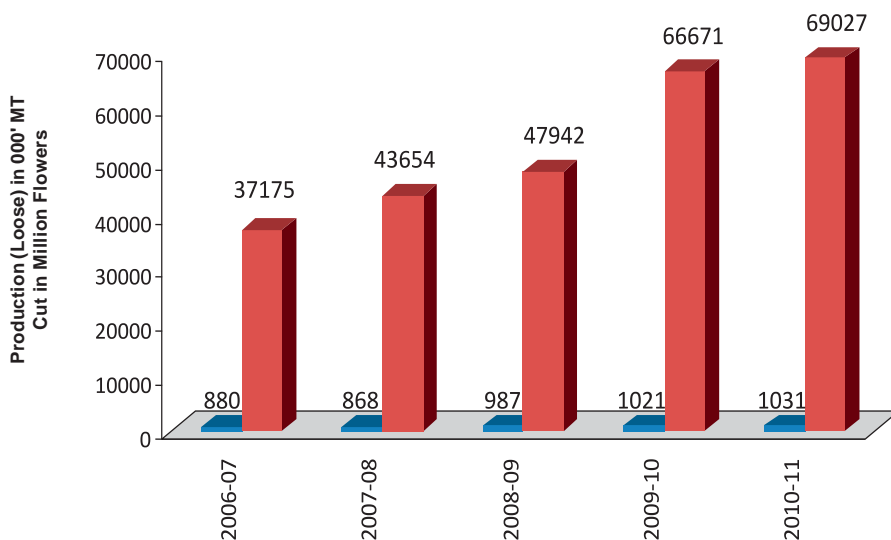




## ALL INDIA AREA AND PRODUCTION OF FLOWERS

YEAR	AREA (IN 000' HA)	PRODUCTION	
		LOOSE (IN 000' MT)	CUT (Million Flowers)
2006-07	144	880	37175
2007-08	166	868	43654
2008-09	167	987	47942
2009-10	183	1021	66671
2010-11	191	1031	69027

## PRODUCTION TREND OF FLOWERS IN INDIA

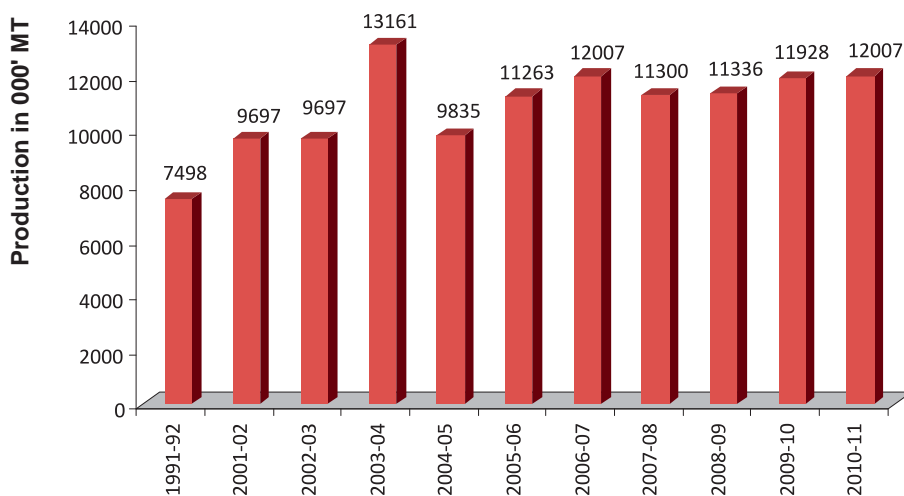


## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF PLANTATION CROPS

YEAR	AREA (IN 000' HA)	PRODUCTION (IN 000'MT)	PRODUCTIVITY (IN MT/HA)
1991-92	2298	7498	3.3
2001-02	2984	9697	3.3
2002-03	2984	9697	3.3
2003-04	3102	13161	4.2
2004-05	3147	9835	3.1
2005-06	3283	11263	3.4
2006-07	3207	12007	3.7
2007-08	3190	11300	3.5
2008-09	3217	11336	3.5
2009-10	3265	11928	3.7
2010-11	3306	12007	3.6

Note : Plantation Crops include data of Cashewnut, Arecanut, Cocoa and Coconut

## PRODUCTION TREND OF PLANTATION CROPS IN INDIA

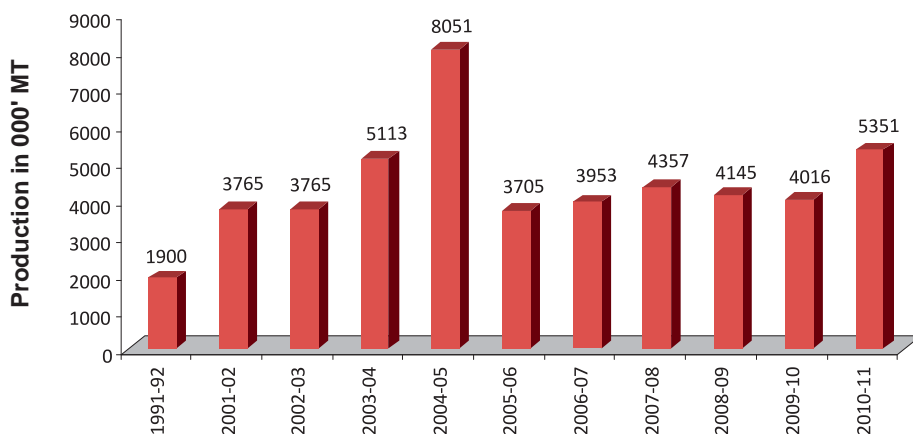




## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF SPICES

YEAR	AREA (IN 000'HA)	PRODUCTION (IN 000' MT)	PRODUCTIVITY (IN MT/HA)
1991-92	2005	1900	0.9
2001-02	3220	3765	1.2
2002-03	3220	3765	1.2
2003-04	5155	5113	1.0
2004-05	5909	8051	1.4
2005-06	2366	3705	1.6
2006-07	2448	3953	1.6
2007-08	2617	4357	1.7
2008-09	2629	4145	1.6
2009-10	2464	4016	1.6
2010-11	2940	5351	1.8

## PRODUCTION TREND OF SPICES IN INDIA





### ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF ALMOND & WALNUT

YEAR	AREA (IN 000'HA)	PRODUCTION (IN 000' MT)	PRODUCTIVITY (IN MT/HA)
2001-02	107	114	1.1
2002-03	117	114	1.0
2003-04	106	121	1.1
2004-05	106	121	1.1
2005-06	130	149	1.2
2006-07	132	150	1.1
2007-08	132	177	1.3
2008-09	136	173	1.3
2009-10	142	193	1.4
2010-11	137	201	1.5

### ALL INDIA PRODUCTION OF MUSHROOM

YEAR	PRODUCTION (IN 000' MT)
2001-02	40
2002-03	40
2003-04	40
2004-05	40
2005-06	35
2006-07	37
2007-08	37
2008-09	37
2009-10	41
2010-11*	41

### ALL INDIA PRODUCTION OF HONEY

YEAR	PRODUCTION (IN 000' MT)
2001-02	10
2002-03	10
2003-04	10
2004-05	10
2005-06	52
2006-07	51
2007-08	65
2008-09	65
2009-10	65
2009-10	65

\*data repeated

## CHAPTER-II

### COMMODITY- WISE STATUS

- **FRUIT CROPS**
- **VEGETABLE CROPS**
- **POTATO & TUBER CROPS**
- **PLANTATION CROPS**



A vibrant collage of various fruits. In the center, a large pineapple sits atop a cluster of green grapes. To the right, a large cantaloupe melon is sliced open, revealing its orange flesh and seeds. Other fruits include red strawberries, yellow lemons, green kiwis, and several apples. The background is a mix of these fruits, creating a colorful and appetizing display.

N H B



## APPLE

- Origin** – Eastern Europe and Western Asia.
- Major Producing States** – Jammu & Kashmir, Himachal Pradesh & Uttranchal
- Latest Production** – 28.91 Lakh Tonnes
- Recommended varieties of apple in different states**

Season	Himachal Pradesh	Jammu and Kashmir	Uttranchal
<b>Early season</b>	Tydemans's Early(P) Michael Molies Delicious, Schlomit	Irish Peach Benoni Starkrimson	Early Shanbury(P) Fenny Benoni Chaubattia Princess
<b>Mid season</b>	Starking delicious Red Delicious Richared Vance Delicious Top Red Lord Lam bourne(P) Red Chief Oregon Spor Redspur Red Gold(P)	American Mother Razakwar Jonathan(P) Cox's Orange Pippin(P) Red Gold(P) Queen,s Apple Rome Beauty Scarlet Siberian	Red Delicious Starking Delicious McIntosh(P) Cortland Golden Delicious(P)
<b>Late season</b>	Golden Delicious(P) Yellow Newton(P) Winter Banana Granny Smith(P)	King Pippin American Apirouge Kerry Pippin Sunhari Chamure Golden Delicious(P) Red Delicious Ambri Baldwin Yellow Newton(P)	Rymer Buckingham(P)

(P)= Pollinizer

- Advance Technology** – High density planting on Mailing root stock
- Pre-cooling** – Forced air
- Storage Conditions** –
- Temperature : -1° to 0°C with exceptions
  - Relative Humidity : 90-95%\*
  - Storage Period : 2-8 Months (depends on variety)
  - Freezing Point : -1.7°c aprox.
- Treatment for quality** – Pre storage treatment with Antioxident within a week of harvesting.
- Sensibility to** – Odours
- Growing Belts**

The major apple producing belts are :

- **North West Hill Region**  
Jammu & Kashmir (Srinagar, Budgam, Pulwama, Anantnag, Baramullah, Kupwara), Himachal Pradesh (Shimla, Kullu, Sirmour, Mandi, Chamba, Kinnaur) and Uttranchal (Almora, Nainital, Pithauragarh, Tehri, Pauri, Chamoli, Uttarkashi, Dehradun).
- **North East Hill Region**  
Arunachal Pradesh (Tawang, West Kanneng, Lower Subansiri).

## HARVESTING SEASON OF APPLE

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH												
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATISHGARH												
DELHI												
GOA												
GUJARAT												
HARYANA												
HIMACHAL PRADESH												
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH												
MAHARASHTRA												
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORRISA												
PUNJAB												
RAJASTHAN												
SIKKIM												
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERRY												

PEAK SEASON
LEAN SEASON
ROUND THE YEAR

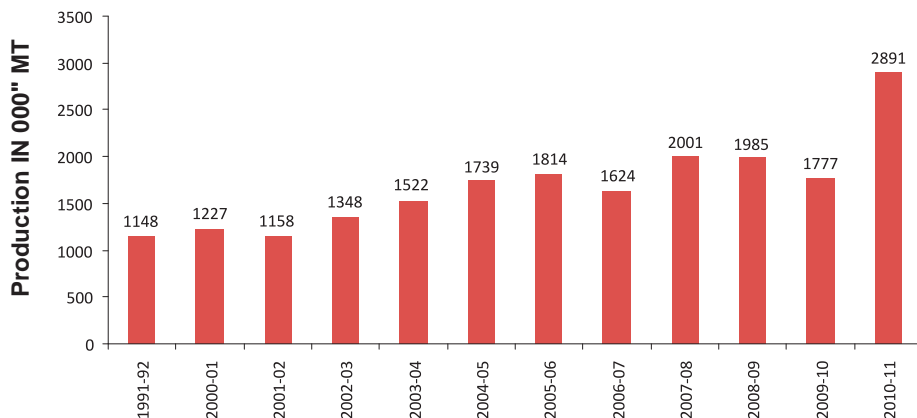
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



## AREA, PRODUCTION AND PRODUCTIVITY OF APPLE

YEAR	AREA (IN 000" HA)	%OF TOTAL FRT.AREA	PRODUCTION (IN 000" MT)	%OF TOTAL FRT.PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	194.5	6.8	1147.7	4.0	5.9
2000-01	239.8	6.2	1226.6	2.8	5.1
2001-02	241.6	6.0	1158.4	2.7	4.8
2002-03	193.1	5.1	1348.4	3.0	7.0
2003-04	201.2	4.3	1521.6	3.3	7.6
2004-05	230.7	4.6	1739.0	3.5	7.5
2005-06	226.6	4.3	1814.0	3.3	8.0
2006-07	252.0	4.5	1624.0	2.7	6.4
2007-08	264.0	4.5	2001.0	3.1	7.6
2008-09	274.0	4.5	1985.0	2.9	7.2
2009-10	282.9	4.5	1777.2	2.5	6.3
2010-11	289.1	4.5	2891.0	3.9	10.0

### Production Trend of Apple





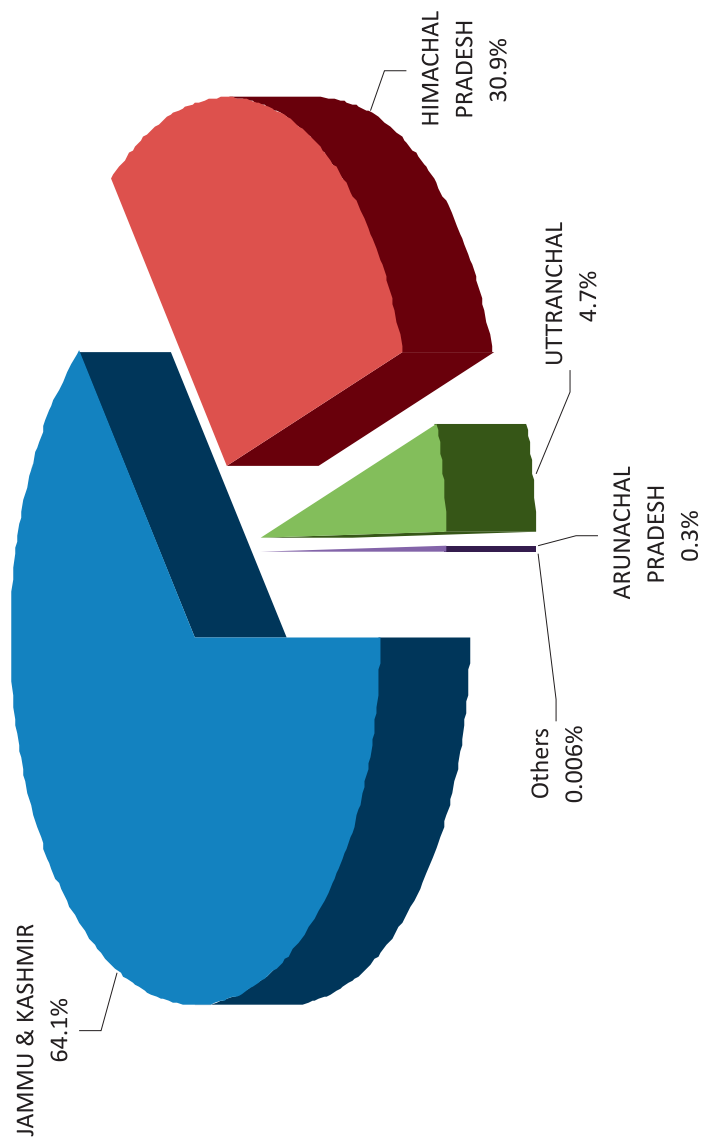
## STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF APPLE

State	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
JAMMU & KASHMIR	133.7	1332.8	10.0	138.1	1373.0	9.9	141.7	1852.4	13.1
HIMACHAL PRADESH	97.2	510.2	5.2	99.6	280.1	2.8	101.5	892.1	8.8
UTTRANCHAL	32.7	132.3	4.1	32.4	114.0	3.5	33.0	135.9	4.1
ARUNACHAL PRADESH	10.8	9.8	0.9	12.8	10.0	0.8	12.8	10.0	0.8
Others	0.0	0.1	1.4	0.1	0.2	2.2	0.1	0.2	2.7
TOTAL	274.4	1985.1	7.2	282.9	1777.2	6.3	289.1	2890.6	10.0





Leading Apple Producing States (2010-2011)



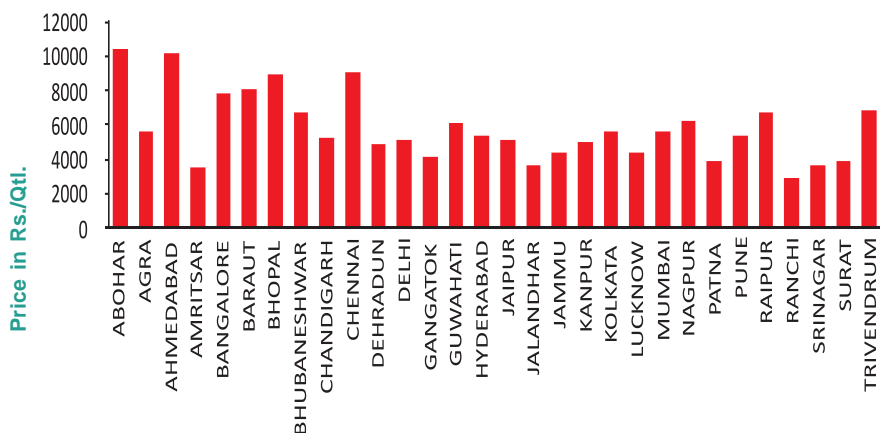
# MONTHLY AVERAGE WHOLESAL PRICE AND ARRIVAL OF APPLE (KASHMIR DEL.) DURING THE PERIOD JANUARY TO DECEMBER, 2011

Average Wholesale Price in Rs./Qtl.  
Total Arrivals in M.T.

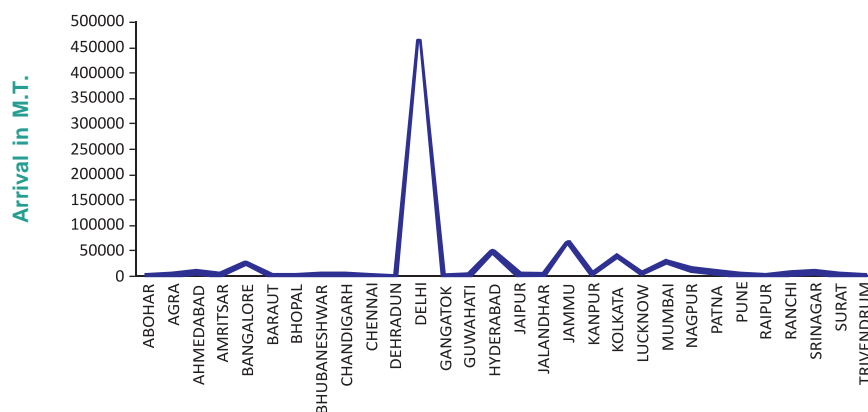
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival
ABOHAR	-	-	-	-	12117	24 13496	26 12360	25 12435	23 10417	29 6761	60 7714	47 8417	56 10540
AGRA	4367 172	4400 126	4496 98	5438 70	5775 73	5972 72	6304 286	6719 355	6525 494	6917 547	6193 751	5404 389	5709 3433
AHMEDABAD	6384 7040	8783 703	8700 396	9477 158	11960 137	12120 250	12681 337	12350 16	-	-	-	-	10307 9037
AMRITSAR	-	3500 5	-	-	-	-	-	-	-	3920 600	3393 397	3632 679	3611 1681
BANGALORE	5135 1795	6113 1315	6846 1000	8105 990	8846 940	8861 454	9948 1065	10727 580	6000 150	7562 4360	7396 8430	9222 3150	7913 24229
BARAUT	5650 57	6689 32	7635 26	8691 22	10594 22	12228 27	13269 26	10156 48	7238 34	4950 79	4966 78	5735 49	8152 505
BHOPAL	-	-	7057 569	8266 145	9036 116	11440 29	11350 21	6800 40	-	-	-	-	8992 910
BHUBANESHWAR	5179 287	6190 237	6685 293	7764 223	8013 157	7771 57	8081 52	-	6436 93	6744 615	6001 687	6083 880	6812 3381
CHANDIGARH	3906 9	4228 231	4877 335	8667 37	10316 185	-	2375 30	-	4375 45	-	4225 1260	4434 803	5267 2935
CHENNAI	7910 456	8239 452	11500 50	-	-	-	-	-	-	-	-	-	9216 958
DEHRADUN	4088 102	5698 51	-	-	-	-	-	-	-	-	5324 193	4842 251	4963 597
DELHI	4187 27797	4549 13323	5402 6362	5362 3668	6487 1360	5156 232	-	-	5056 83726	5345 108879	5057 118518	5362 95777	5188 459842
GANGATOK	4250 8	-	-	-	-	-	-	-	-	-	-	-	4250 8
GUWAHATI	-	-	-	-	-	-	-	-	-	7375 152	5898 393	5379 504	6217 1049
HYDERABAD	5040 5424	3633 4805	4637 10346	6134 4449	5712 4293	4569 5531	5380 6481	7656 3769	6167 203	-	-	-	5456 45301
JAIPIR	5544 155	5781 78	-	-	-	-	-	6155 120	-	-	4528 193	4081 1167	5218 1713
JALANDHAR	4440 941	4824 367	-	-	-	-	-	-	-	3135 405	2667 249	-	3767 1962
JAMMU	4038 366	4085 52	-	-	-	-	-	5171 323	4631 12816	4764 32506	4817 15620	4140 2351	4509 64034
KANPUR	4105 331	4895 179	4563 146	5730 154	6650 16	-	-	5560 250	4656 2892	4432 1992	-	-	5110 5960
KOLKATA	5585 4632	6052 1819	6293 499	6787 943	6922 54	-	-	-	4860 1168	5587 7744	4966 10768	4321 10430	5716 38057
LUCKNOW	3925 685	4553 274	4841 157	5746 143	6324 101	-	-	4100 29	4510 611	4661 1864	4324 1464	4587 1013	4400 6381
MUMBAI	-	-	-	-	-	-	-	3579 40	6281 3485	7356 9340	5358 7260	5760 6720	5667 26845
NAGPUR	3136 920	3487 885	4673 335	8260 152	9602 197	8731 283	8610 3410	6333 1205	5638 1940	5506 1838	6096 940	5333 894	6300 12999
PATNA	3638 345	-	-	-	-	-	-	-	-	4778 1890	3759 3060	3669 1560	4011 6855
PUNE	6384 672	7422 234	1800 70	-	-	-	2300 55	-	-	7482 407	7050 610	6021 929	5494 2977
RAPUR	5424 226	5735 55	5654 43	6386 24	6950 2	-	-	-	-	8700 24	8600 56	-	6778 430
RANCHI	1876 759	1953 670	1887 799	3244 520	3433 488	3470 207	-	2743 135	3738 535	3346 472	3050 533	3720 553	2951 5671
SRINAGAR	3188 640	3350 265	-	-	-	-	2300 8	3875 37	4288 1193	4950 2740	4352 1505	3525 1415	3729 7803
SURAT	3440 285	4023 190	4865 287	5180 414	-	-	-	-	-	3600 218	3250 329	3254 318	3945 2041
TRIVENDRUM	-	-	-	-	-	-	-	-	-	-	-	6885 160	6885 160



### Annual Wholesale Average Price Trend of Apple (Kashmir Del.) - 2011



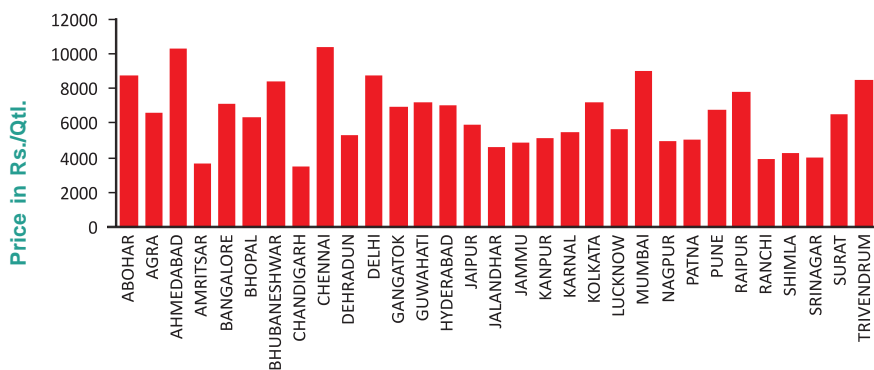
### Annual Total Arrival Trend of Apple (Kashmir Del.) - 2011



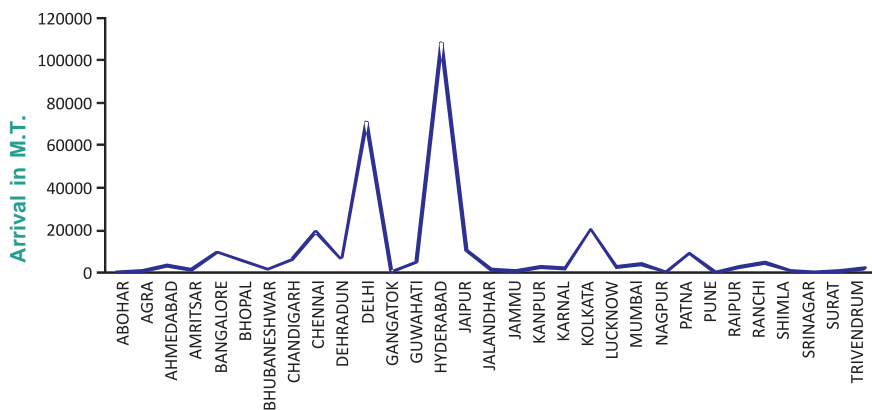




### Annual Wholesale Average Price Trend of Apple Royal (HP) - 2011



### Annual Total Arrival Trend of Apple Royal (HP) - 2011



## BANANA

- Origin** – Asia.
- Major Producing States** – Tamil Nadu, Maharashtra, Karnataka, Gujarat, Andhra Pradesh, Assam and Madhya Pradesh.
- Latest Production** – 297.79 Lakh Tonnes

### Banana cultivars grown in different states

State	Cultivars
<b>Andhra Pradesh</b>	Dwarf Cavendish, Robusta, Rasthali, Amritpant, Thellachakrakeli, Karpoora Poovan, Chakrakeli, Monthan and Yenagu Bontha
<b>Assam</b>	Jahaji (Dwarf Cavendish), Borjahaji (Robusta), Honda, Manjahaji, Chinia (Manohar), Kanchkol, Chini Champa, Bhimkol, Attikol, Jatikol, Digjowa, Kulpait and Bharat Moni
<b>Bihar</b>	Dwarf Cavendish, Alpon, Chinia, Chini Champa, Malbhog, Muthia, Kothia and Gauria
<b>Gujarat</b>	Dwarf Cavendish, Lacatan, Harichal (Lokhandi) and Gandevi Selection
<b>Kerala</b>	Nendran (Plantain), Palayankodan (Poovan), Rasthali, Monthan & Red Banana
<b>Maharashtra</b>	Dwarf Cavendish, Basrai, Robusta, Lal Velchi, Safed Velchi, Rajeli Nendran
<b>Tamil Nadu</b>	Virupakshi, Robusta, Red Banana, Poovan, Rasthali, Nendran, Monthan, Karpuravalli, Sakkai, Peyan and Matti
<b>West Bengal &amp;</b>	Champa, Mortman Rasthali, Amrit Sagar, Giant Governor, Lacatan
<b>Orissa</b>	Orissa & Monthan

- Advance Technology** – Planting of tissue cultured plants.

- Pre-cooling** – Forced air

### Storage Conditions :

Temperature	:	
Holding room	:	13 <sup>0</sup> -14 <sup>0</sup> C
Ripening room	:	14 <sup>0</sup> -20 <sup>0</sup> C
Relative Humidity	:	90-95%



- Storage period : Mature-green bananas can be stored for up to 3 weeks in ethylone free air or up to 6 weeks in a controlled atmosphere at 14<sup>0</sup>C
- Freezing point : -0.5<sup>0</sup>C

#### Treatment for Quality

- Ethylene application is best method is best method to hasten ripening without loss in fruit quality or flavour. A prestorage dip in E-9267 emulsifiable mineral oil at 0.4% was found effective in reducing fruit decay and also prolonged storage life. Dipping of fruits in 1.5% or 2.5% talprolong solution delayed yellow colour development by 4-8 days.

#### Sensibility to Growing Belts

- Refrigeration, Freezing and Ethylene

The major banana producing belts, are as follows :

- Arunachal Pradesh, Assam, Sikkim, Bihar, West Bengal.
- Maharashtra (Jalgaon, Ahmednagar, Dhule, Nanded, Parbhani), Gujarat, Madhya Pradesh.
- Orissa, Andhra Pradesh (East Godavari, West Godavari), Kurnool, Cuddapah
- Karnataka, Tamil Nadu and Kerala.



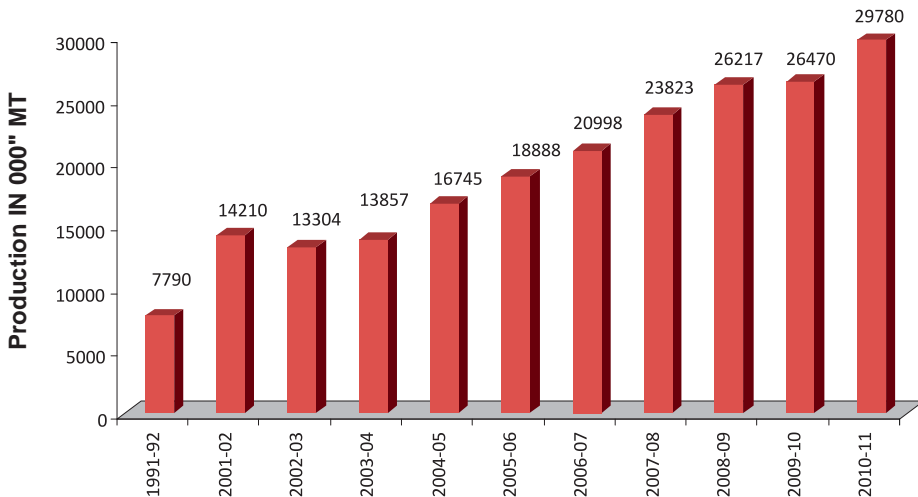




## AREA, PRODUCTION AND PRODUCTIVITY OF BANANA

YEAR	AREA (IN 000"HA)	%OF TOTAL FRT.AREA	PRODUCTION (IN 000" MT)	%OF TOTAL FRT.PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	383.9	13.4	7790.0	27.2	20.3
2001-02	466.2	11.6	14209.9	33.0	30.5
2002-03	475.3	12.5	13304.4	29.4	28.0
2003-04	498.6	10.7	13856.6	30.4	27.8
2004-05	589.6	11.9	16744.5	34.0	28.4
2005-06	569.5	10.7	18887.8	34.1	33.2
2006-07	604.0	10.9	20998.0	35.3	34.8
2007-08	658.0	11.2	23823.0	36.3	36.2
2008-09	709.0	11.6	26217.0	38.3	37.0
2009-10	770.3	12.2	26469.5	37.0	34.4
2010-11	830.0	13.0	29780.0	39.8	35.9

### Production Trend of Banana

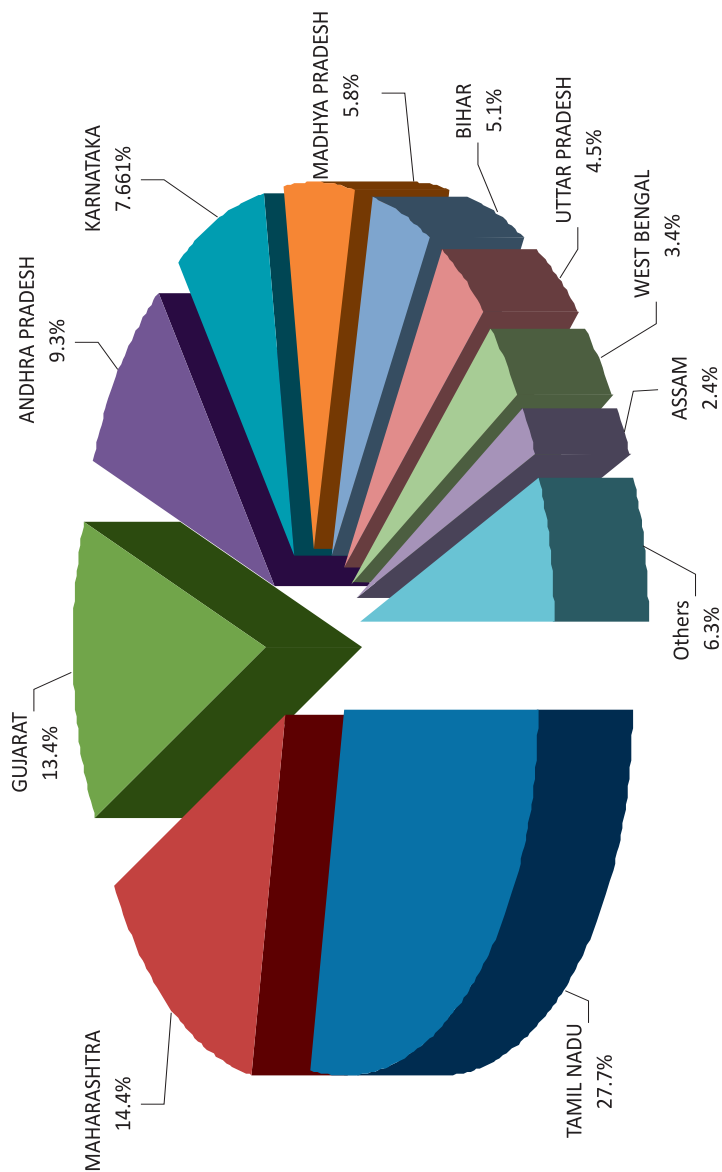


# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF BANANA

State	AREA (000'HA)			PRODUCTION (000'MT)			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
TAMIL NADU	124.4	6667.0	53.6	113.7	4980.9	43.8	125.4	8253.0	65.8
MAHARASHTRA	80.0	4960.0	62.0	85.0	5200.0	61.17	82.0	4303.0	52.5
GUJARAT	60.9	3571.6	58.7	61.9	3779.8	61.0	64.7	3978.0	61.5
ANDHRA PRADESH	80.1	2804.0	35.0	80.6	2819.6	35	79.3	2774.8	35.0
KARNATAKA	75.4	1918.8	25.4	104.4	2132.3	20.4	111.8	2281.6	20.4
MADHYA PRADESH	28.8	1498.0	51.9	33.0	1459.8	44.2	38.1	1719.6	45.2
BIHAR	31.3	1373.6	43.9	31.5	1435.3	45.62	31.9	1517.1	47.6
UTTAR PRADESH		in others		30.4	1138.6	37.4	32.4	1346.1	41.5
WEST BENGAL	39.8	954.1	23.9	41.0	982.2	23.9	42.0	1010.1	24.0
ASSAM	47.9	852.6	17.8	53.4	805.2	15.0	47.6	723.6	15.2
Others	140.2	1617.4	11.5	135.5	1735.8	12.8	175.3	1873.1	10.7
<b>TOTAL</b>	<b>708.8</b>	<b>26217.2</b>	<b>37.0</b>	<b>770.3</b>	<b>26469.5</b>	<b>34.3</b>	<b>830.5</b>	<b>29779.9</b>	<b>35.9</b>



## Leading Banana Producing States (2010-2011)



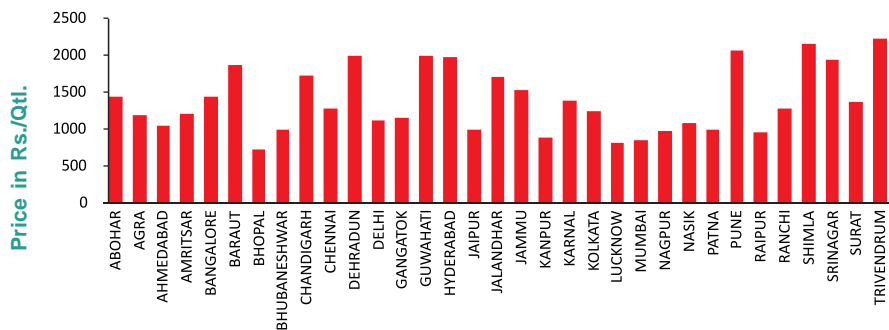
Average Wholesale Price in Rs./Qlt.  
Total Arrivals in M.T.

## MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF BANANA DURING THE PERIOD JANUARY TO DECEMBER, 2011

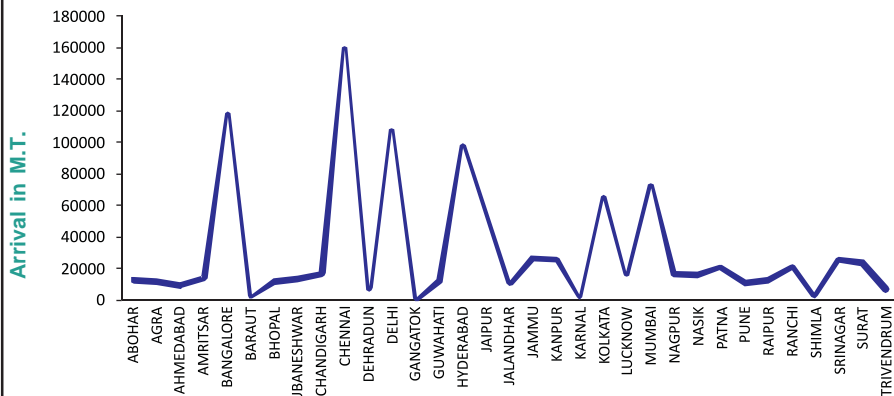
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival
ACHAR	1186 1015	1238 470	1360 886	1643 875	1600 1030	1473 1185	1508 1240	1404 1105	1346 1130	1448 1155	1632 975	1358 1196	1435.5 12824
AGRA	991 980	873 920	988 770	1205 700	1513 688	1518 926	1384 1130	1409 1140	930 1310	1017 1133	984 912	1326 893	1178.17 11512
AHMEDABAD	883 778	904 246	973 228	968 162	982 215	964 384	947 1203	1119 1704	1138 1777	1137 1508	1230 1039	1148 193	1032.75 9407
AMRITSAR	985 870	1271 1000	1494 790	1307 1691	620 918	1370 989	1310 1189	1495 905	1740 982	1260 940	935 972	1060 1187.75	13230
BANGALORE	1342 8503	1400 8200	1435 9316	1518 8934	1546 11196	1700 11362	1893 11124	1446 10867	1232 9621	1427 8829	1063 9468	1100 8757	1430.17 116177
BARAUT	2738 149	1598 141	1492 162	2100 130	2017 159	2109 177	1888 179	1923 176	1686 172	1729 162	1634 149	1420 155	1682 1911
BHOPAL	609 875	659 776	716 796	764 655	784 841	760 836	833 854	753 979	812 1337	614 965	732 1803	640 776	723 11493
BHUBANESHWAR	740 875	867 902	963 910	1150 925	1135 1035	1053 1030	1014 1340	1022 978	1063 1318	992 1235	902 1165	848 1550	979.08 13263
CHANDIGARH	908 985	1200 1141	1481 1138	1759 1003	2135 1252	1964 1621	1725 2559	1946 1497	1863 1497	2084 1393	1892 1500	1617 1163	1714.5 16749
CHENNAI	1150 9978	1183 9940	1300 10850	1150 8010	1352 9075	1417 9590	1344 9500	1313 28667	1365 20520	1285 1762	1300 1473	1300 14917	1265.75 157582
DEHRADUN	1658 332	2011 240	2155 549	2393 478	2376 502	2234 654	2107 896	1794 1354	1780 1006	1674 753	1761 489	1860 482	1983.58 7735
DELHI	968 3082	1199 4779	1380 6541	1790 5900	1315 5537	828 6765	975 15101	1060 13467	860 19557	975 11941	970 6980	961 5872	1105.08 105422
GANGATOK	1113 47	1140 49	1055 71	1108 55	1097 53	1098 39	1417 32	1118 37	1172 37	1140 37	1110 36	1100 35	1139 528
GUWAHATI	1842 736	1767 726	1737 889	1598 647	1616 916	2417 1704	2381 983	2467 983	1964 1266	2064 831	2154 844	1796 952	1980.25 11487
HYDERABAD	1298 8091	1414 4561	2162 9321	2700 5259	2520 3987	2615 7431	3178 9015	1655 5615	874 3399	916 18222	925 19256	3223 2680	1956.67 96837
JAIPUR	780 3154	1107 2579	1177 3424	1427 2746	1158 3765	694 4914	978 4733	1101 8465	811 7024	988 6414	863 4947	747 4333	985.92 56498
JALANDHAR	2164 1021	1942 819	1814 966	1849 836	1710 1089	1615 983	1482 954	1646 761	1321 1448	1632 1402	1509 383	-	1698.55 10642
JAMMU	1226 1984	1372 1948	1685 1973	2036 1774	2129 1984	1662 2025	1382 2364	1413 2346	1340 2595	1321 2250	1335 2323	1269 2733	1512.5 26319
KANPUR	755 1065	844 604	1005 755	1478 940	1733 669	677 2205	745 2185	838 2447	544 10843	547 3054	-	-	881.1 24767
KARNAL	972 177	1183 147	1255 238	2044 75	1184 203	1246 226	1132 273	1565 171	1699 232	1594 211	1243 257	1319 230	1369.67 2440
KOLKATA	803 5667	1075 3909	1344 3769	1428 10737	1315 5330	1352 4620	1344 4397	1327 4305	1250 8103	1251 3602	1165 5198	1138 3515	1232.67 63172
KUNNOO	578 887	644 700	914 755	1140 733	1151 827	1021 2034	797 1186	805 1498	671 3374	608 2214	568 1550	658 796	25.5 16757
MUMBAI	793 5570	761 4930	851 8590	1118 4594	1124 3010	664 4550	722 5520	1056 6300	828 8340	748 6660	757 6390	711 6810	844.42 71254
NAGPUR	656 385	833 415	882 398	1125 225	1394 408	914 595	918 1655	989 2460	1119 2560	957 2590	959 2400	883 2520	969.08 16611
NASIK	1152 1570	1273 1175	1384 990	1510 350	1683 568	1245 867	763 1767	763 1760	708 2170	755 2265	769 1235	833 1560	1068.83 15780
PATNA	655 270	745 660	795 930	908 930	1166 1050	1275 1200	1054 885	1164 810	1004 2235	1196 4545	920 4755	850 2070	977.67 20340
PUNE	1425 1340	1553 933	1718 1102	1913 657	1900 739	2068 983	2280 1153	2530 672	2438 698	2506 590	2317 697	1925 1082	2046.08 10646
RAIPUR	754 1018	896 1125	1098 998	1263 617	1314 647	885 721	841 906	1040 787	848 1715	916 1420	829 1156	755 1211	953.25 12321
RANCHI	885 1660	1214 1688	1100 2090	1288 1527	1610 2017	654 721	1336 1411	1398 1113	1900 1021	1945 828	1985 938	2075 1264.67	19968
SHIMLA	1712 149	1836 199	1738 165	1749 227	2617 257	2403 460	1984 303	1838 168	1700 2488	192 2542	191 2783	254 2146.5	2720
SRINAGAR	1681 1955	1745 1565	1775 2210	2208 1870	2617 2757	2321 2335	1779 2430	1787 2370	1834 1332	1820 1980	1850 2070	1544 2365	1830.08 25239
SURAT	1372 1723	1364 1515	1271 1903	1248 1560	1340 1844	1219 2263	1419 2436	1794 1980	1354 2263	1381 1770	1284 1995	1270 2115	1360.5 23267
TRIVENDRUM	2473 368	2107 416	2033 568	2558 482	2480 539	1852 645	1938 426	2298 529	2522 486	2258 234	2177 1068	1922 451	2121.17 6222



### Annual Wholesale Average Price Trend of Banana - 2011



### Annual Total Arrival Trend of Banana - 2011



## CITRUS

<b>Latest Production</b>	– 74.64 Lakh Tonnes
<b>Main fruits of this groups</b>	– Lime/Lemon Mosambi Orange (Mandarin)
<b>Advanced Technology</b>	– Tissue Culture and Micro-propagation
<b>Pre-cooling</b>	– Forced air
<b>Transportant and storage Life</b>	– 8-10 weeks
<b>Transport for Quality</b>	– Waxing
<b>Sensibility to</b>	– Refrigeration, Ethylene and Odours
<b>Growing Belts</b>	

The major citrus n producing belts are as follows :

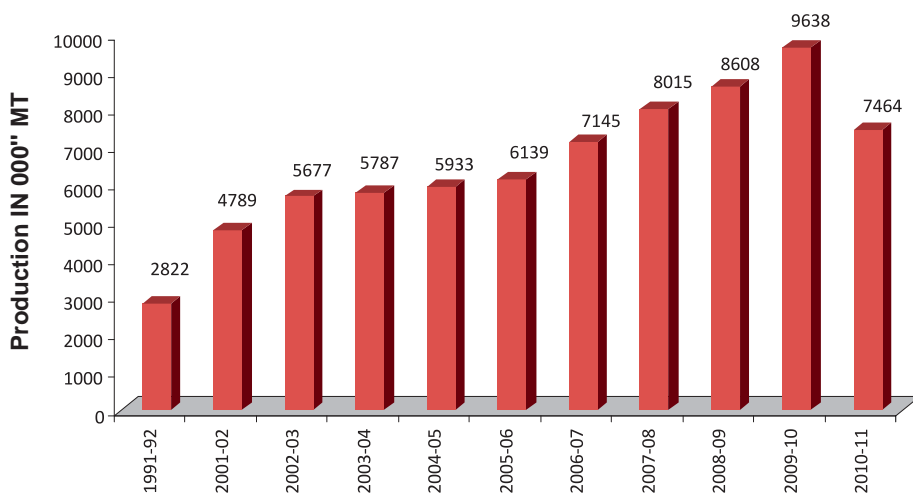
- Jammu & Kashmir (Jammu, Kathua, Udhampur, Rajauri), Himachal Pradesh (Kangra & Sirmaur) and Uttranchal.
- Punjab, Haryana and Rajasthan (Shriganganagar),
- West Bengal (Darjeeling, Jalpaiguri), Sikkim, Arunachal Pradesh and Assam,
- Rajashtan (Bharatpur, Dholpur & Sawai Madhopur) and Madhya Pradesh (Mandsaur, Shajapur).
- Maharashtra (Amravati, Nagpur, Akola, Aurangabad) and Madhya Pradesh (Chhindwara, Khandwa, Hosangabad).
- West Bengal (Midnapur, 24 Pargana (N) and Orissa (Ganjam).
- Andhra Pradesh, Tamil Nadu (Dindgual Anna, Trichy Tirunelveli Kattabomman) and Karnataka.



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF CITRUS

YEAR	AREA (IN 000" HA)	%OF TOTAL FRT.AREA	PRODUCTION (IN 000"MT)	%OF TOTAL FRT.PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	386.9	13.5	2821.7	9.9	7.3
2001-02	618.5	15.4	4789.1	11.1	7.7
2002-03	562.6	14.9	5677.2	12.6	10.1
2003-04	683.3	14.6	5786.9	12.7	8.5
2004-05	708.2	14.3	5932.9	12.0	8.4
2005-06	742.3	13.9	6139.0	11.1	8.3
2006-07	798.0	14.4	7145.0	12.0	9.0
2007-08	867.0	14.8	8015.0	12.2	9.2
2008-09	923.0	15.1	8608.0	12.6	9.3
2009-10	987.3	15.6	9638.0	13.5	9.8
2010-11	846.0	13.3	7464.0	10.0	8.8

### Production Trend of Citrus



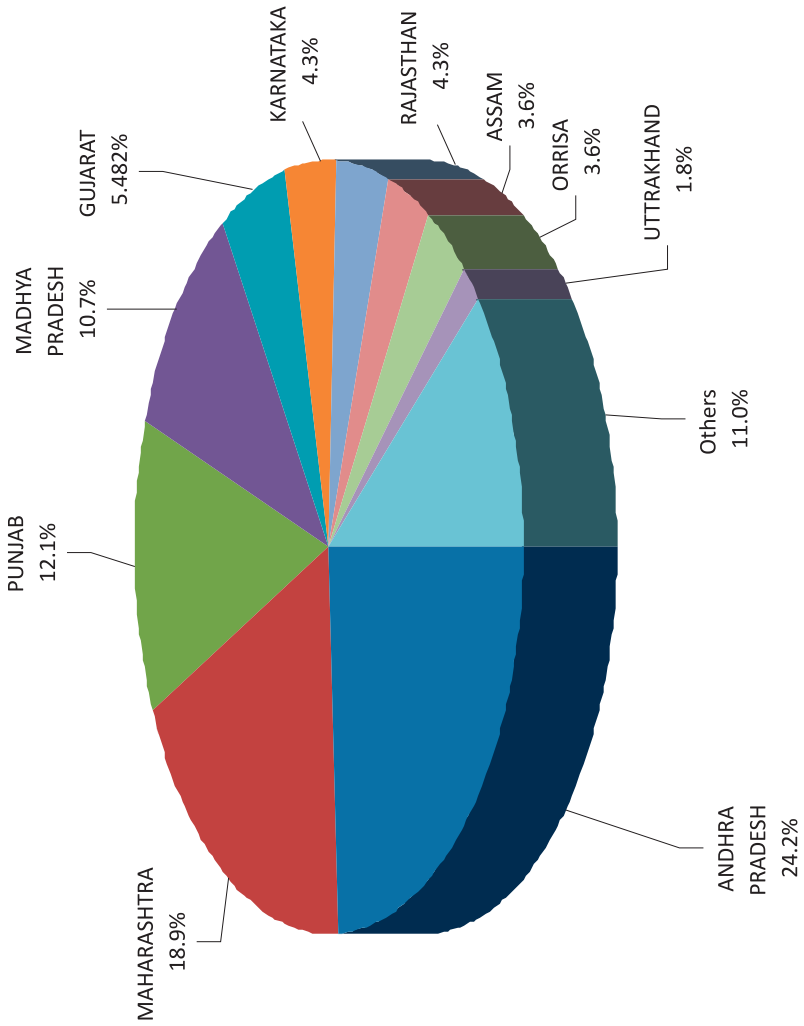
## STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF CITRUS

State	AREA (000'HA)			PRODUCTION (000'MT)			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
ANDHRA PRADESH	271.3	3752.6	13.8	281.3	3883.7	13.8	128.2	1805.6	14.1
MAHARASHTRA	262.7	1408.0	5.4	287.6	1725.1	6.0	278.0	1410.0	5.1
PUNJAB	39.2	734.7	18.7	42.4	905.1	21.3	44.7	900.5	20.1
MADHYA PRADESH	34.0	544.4	16.0	38.3	677.8	17.7	45.0	798.5	17.7
GUJARAT	35.3	350.5	9.9	37.1	385.6	10.4	39.2	409.1	10.4
KARNATAKA	14.2	309.8	18.1	15.1	312.5	20.7	15.7	324.7	20.7
RAJASTHAN	17.0	306.7	21.9	18.6	312.7	16.8	20.6	322.8	15.7
ASSAM	19.3	191.5	9.9	24.2	225.9	9.3	27.4	268.2	9.8
ORISSA	27.1	223.0	8.2	27.4	258.8	9.4	27.5	265.4	9.6
UTTARAKHAND	26.7	129.5	4.9	26.7	126.6	4.7	27.4	134.5	4.9
Others	176.416	657.07	3.7	188.651	823.973	4.4	192.8	824.3	4.3
<b>TOTAL</b>	<b>923.2</b>	<b>8607.7</b>	<b>9.3</b>	<b>987.3</b>	<b>9637.8</b>	<b>9.8</b>	<b>846.5</b>	<b>7463.6</b>	<b>8.8</b>





Leading Citrus Producing States (2010-2011)



## LIME / LEMON

<b>Origin</b>	– Asia.
<b>Major Producing States</b>	– Andhra Pradesh, Gujarat, Tamil Nadu, Karnataka, Maharashtra, Assam & Rajasthan.
<b>Latest Production</b>	– 21.08 Lakh Tonnes
<b>Main Varieties</b>	– Acidlime (sour lime, Maxican lime, keylime, west Indian lime). The improved varieties are: Pramalini, Vikram, Chakradhari, PKM 1, Selection 49, Seed less lime, Tahiti (Persian) lime
Sweet lime	– Mithachikna and Mithotra
Lemon varieties	– Eureka, Lisbon, Villafranca, Lucknow Seedless, Kagzi Kalan Nepali Oblong (Assam lemon), Nepali Round and Pant Lemon 1.

**Pre-cooling** – Forced air

### Storage Conditions

Temperature	: 9 - 10°C
Relative Humidity	: 85-90%
Storage period	: 6-8 weeks
Freezing point	: - 3 to -1°C

**Sensibility to** – Refrigeration, Freezing, Ethylene and Odours

**Post-harvest Losses** – 20-95%.

### Growing Belts

The major lime/lemon producing belts are as follows :

- Gujarat (Ahmedabad, Kheda, Mehsana, Bhavnager)
- Maharashtra (Pune, Satara, Wardha, Sholapur, Akola, Nagpur, Beed, Aurangabad)
- Karnataka (Kodagu, Hassan, Bijapur) and Tamil Nadu (Dindigul, Trichy)
- Rajasthan (Jaipur, Alwar, Bharatpur)



## HARVESTING SEASON OF LIME/LEMON

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH	■							■	■	■	■	■
ARUNACHAL PRADESH	■	■	■	■	■	■	■	■	■	■	■	■
ASSAM	■	■	■	■	■	■	■	■	■	■	■	■
BIHAR												
CHHATISHGARH			■	■	■	■	■	■				
DELHI												
GOA												
GUJARAT								■	■	■	■	
HARYANA	■	■	■	■	■	■	■	■	■	■	■	■
HIMACHAL PRADESH	■	■							■	■	■	■
JAMMU & KASHMIR								■	■		■	■
JHARKHAND						■			■	■	■	■
KARNATAKA	■	■	■	■	■	■	■	■	■	■	■	■
KERALA												
MADHYA PRADESH		■	■	■	■		■	■	■			
MAHARASHTRA	■	■	■	■	■	■						
MANIPUR										■		■
MEGHALAYA												
MIZORAM							■	■				
NAGALAND												
ORISSA								■	■	■	■	
PUNJAB	■	■	■	■	■	■	■	■	■	■	■	■
RAJASTHAN								■	■			
SIKKIM												
TAMIL NADU	■	■	■			■						
TRIPURA				■	■	■	■	■	■	■		
UTTAR PRADESH							■					■
UTTARAKHAND					■	■	■	■	■		■	■
WEST BENGAL							■	■	■	■		
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERRY	■	■									■	■

■ PEAK SEASON

■ LEAN SEASON

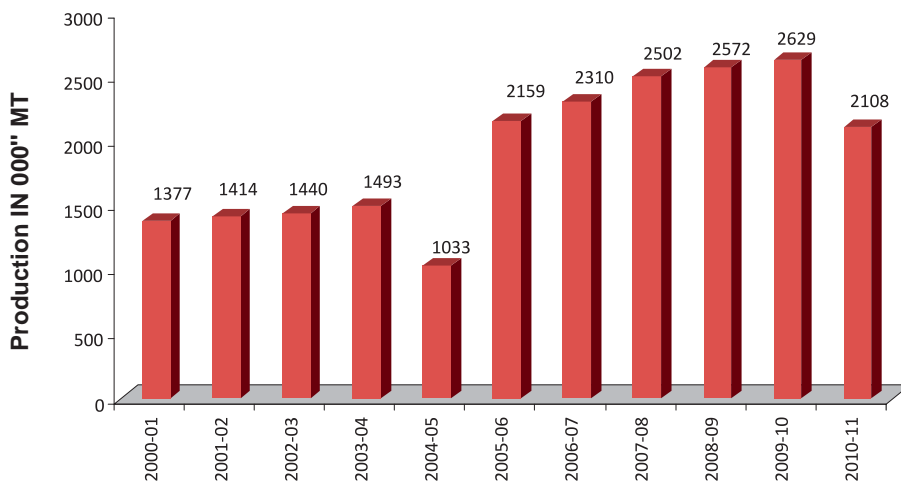
■ ROUND THE YEAR

SOURCE : Director of Horticulture / Agriculture of respective State / UT's

## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF LIME/LEMON

YEAR	AREA (IN 000" HA)	%OF TOTAL FRT.AREA	PRODUCTION (IN 000"MT)	%OF TOTAL FRT.PRODUCTION	PRODUCTIVITY (IN MT/HA)
2000-01	164.2	4.2	1377.2	3.2	8.4
2001-02	161.3	4.0	1413.7	3.3	8.8
2002-03	146.2	3.9	1439.6	3.2	9.8
2003-04	167.8	3.6	1493.3	3.3	8.9
2004-05	78.9	1.7	1033.1	2.3	13.1
2005-06	268.7	5.0	2159.0	3.9	8.0
2006-07	294.9	5.3	2310.2	3.9	7.8
2007-08	302.8	5.2	2501.7	3.8	8.3
2008-09	316.05	5.2	2571.53	3.8	8.1
2009-10	295.60	4.7	2629.20	3.7	8.9
2010-11	219.00	3.4	2108.00	2.8	9.6

### Production Trend of Lime/Lemon

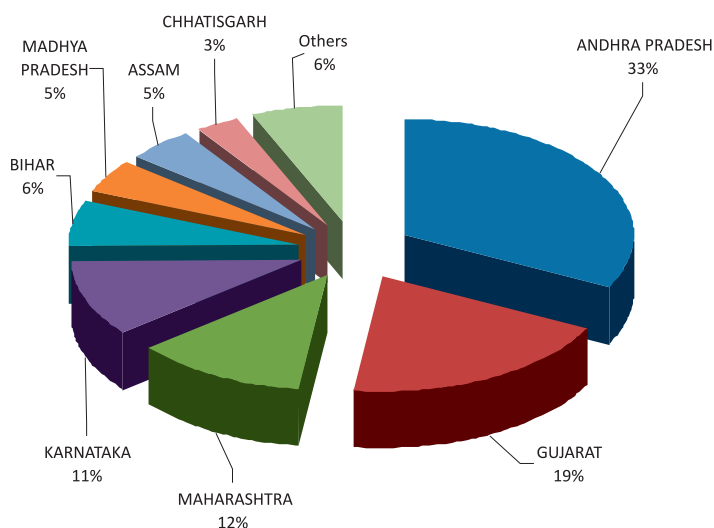




## STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF LIME/LEMON

	AREA IN 000" HA			PRODUCTION IN 000" MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
State	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
ANDHRA PRADESH	60.0	899.5	15.0	57.5	862.3	15.0	45.8	686.6	15.0
GUJARAT	35.3	350.5	9.9	37.1	385.6	10.4	39.2	409.1	10.4
MAHARASHTRA	37.7	156.0	4.1	41.5	166.6	4.0	43.0	258.0	6.0
KARNATAKA	8.6	201.7	23.5	9.0	201.8	22.4	10.1	224.1	22.3
BIHAR	17.7	128.1	7.2	17.9	131.2	7.3	18.0	130.7	7.3
MADHYA PRADESH	INCLUDED IN OTHERS						6.4	103.0	16.0
ASSAM	10.8	98.1	9.1	11.4	84.1	7.4	12.6	97.6	7.7
CHHATISGARH	INCLUDED IN OTHERS						10.0	66.2	6.6
Others	145.9	737.6	5.1	121.3	797.6	6.6	34.1	132.7	3.9
<b>TOTAL</b>	<b>316.0</b>	<b>2571.5</b>	<b>8.1</b>	<b>295.7</b>	<b>2629.2</b>	<b>8.9</b>	<b>219.1</b>	<b>2108.0</b>	<b>9.6</b>

### Leading Lemon/Lime Producing States 2011



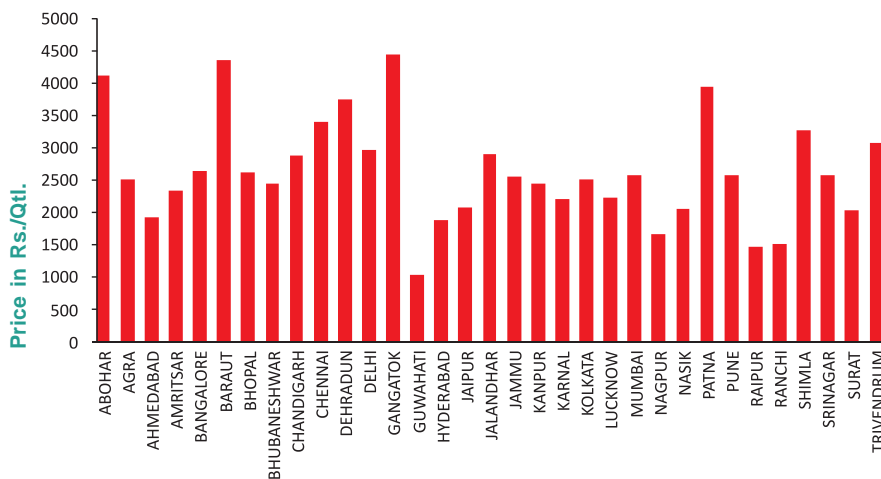
# MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF LIME DURING THE PERIOD JANUARY TO DECEMBER, 2009/11

Average Wholesale Price in Rs./Oil.  
Total Arrivals in M.T.

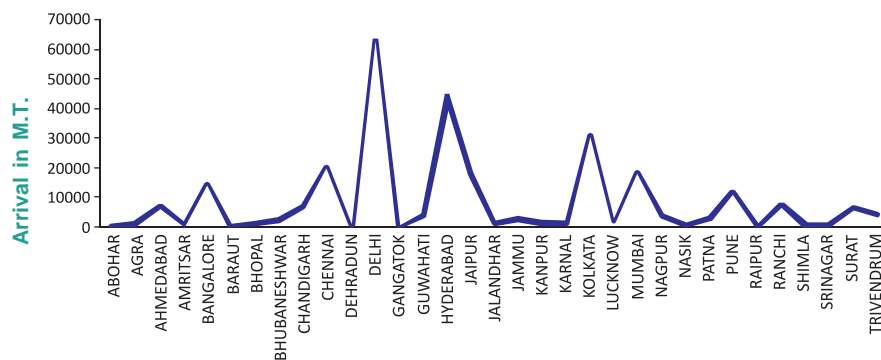
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual													
	Price Arrval	Price Arrval	Price Arrval	Price Arrval	Price Arrval	Price Arrval	Price Arrval	Price Arrval	Price Arrval	Price Arrval	Price Arrval	Price Arrval	Price Arrval													
ABOHR	-	-	-	-	3917	6	4032	32	3552	52	3548	43	4039	32	3654	33	4709	28	4614	21	4908	73	4108.11	320		
AGRA	2389	60	2516	50	2972	39	3724	53	3650	85	2920	100	1692	104	1798	73	2098	92	2237	120	2011	308	2106	156	2509.42	1240
AHMEDABAD	1323	1432	2315	400	4146	304	4259	237	3714	331	1853	518	1067	793	841	863	872	795	1166	446	1035	311	646	290	1936.42	6720
AMRITSAR	1643	71	2596	70	4694	54	4366	66	3611	37	1887	113	1329	144	1431	173	1488	167	1695	110	2090	73	1460	107	2340.83	1185
BANGALORE	2060	637	2783	615	2806	1098	5011	1396	4850	1350	3834	1080	1707	1436	1342	1399	1713	1516	1995	846	1658	1161	1826	1737	2632.08	14271
BARAUT	-	-	-	-	6490	5	7020	33	4294	45	2931	63	2988	51	3450	31	4175	24	4122	25	3731	24	3731	24	4355.67	304
BHOPAL	2834	119	3057	72	3514	107	3332	66	3956	53	4242	80	2331	151	1744	178	1806	191	1548	169	1770	361	1404	194	2811.5	1741
BHUBANESHWAR	1809	208	3282	118	5290	115	5275	108	3688	210	1944	244	1415	240	1498	199	1422	211	1599	207	1083	251	1028	256	2444.42	2367
CHANDIGARH	1558	248	1876	455	4031	438	4659	447	6275	453	3626	876	2359	1258	2146	813	2083	703	2038	583	2092	402	1693	330	2899.87	7006
CHENNAI	1788	1176	2435	996	5836	799	6140	726	6663	783	3564	1161	2276	1388	2161	4565	2253	3122	2712	1514	2500	1907	2493	1752	3401.75	19899
DEHRADUN	2774	60	3122	23	4803	29	5000	36	6007	53	5002	44	3427	77	2750	139	3256	109	3176	51	3358	31	2108	68	3740.25	720
DELHI	2027	2286	3296	2438	5394	3518	5633	2961	4697	6542	2746	9242	1756	9323	1670	7678	1890	6472	2277	3387	2230	3337	1849	5013	2972.08	62197
GANGTOK	3153	18	5595	18	3814	23	5884	19	6218	19	5975	20	4035	18	3868	22	3867	19	3872	20	3599	23	3470	20	4429.17	239
GUWAHATI	1356	260	1322	241	1198	266	1113	204	1004	303	877	672	828	313	814	314	851	347	988	259	986	246	1131	224	1040.58	3649
HYDERABAD	1990	2411	2030	2007	2381	5944	2072	3110	2196	3551	2246	5349	2400	5978	1919	2348	650	73	1096	8435	1570	3835	2096	794	1887.17	43835
JALANDHAR	1619	827	1943	752	4426	715	4246	951	3424	2339	1969	2777	1162	2743	1173	2406	1152	1775	1097	873	1566	727	1053	860	2069.17	17745
JAMMU	1916	117	3011	89	5396	93	5177	129	3316	554	1798	743	1287	443	2277	275	2342	167	1786	150	1102	133	1133	113	2545.08	3006
KANPUR	1664	110	2664	80	2800	62	3870	58	4268	13	3200	252	1365	265	1163	182	1403	180	2005	50	-	-	-	-	2440.2	1370
KARNAL	1392	146	2017	98	3413	79	3769	46	3257	69	2010	151	1392	157	1575	103	2144	124	2272	140	1752	119	1619	153	2214.33	1385
KOLKATA	1698	1976	3062	1220	4798	1312	5098	4140	3618	2664	1816	2846	1365	2704	2057	2128	2171	4288	1878	2144	1354	2748	1200	2544	2509.58	30734
LUCKNOW	1588	133	2309	138	3755	100	3886	100	3650	183	1533	898	1364	197	1774	125	1765	183	1806	109	1746	147	1513	133	2224.08	2446
MUMBAI	1983	1603	2668	1212	4498	2229	5000	1325	4938	1259	1858	1403	1260	1453	1283	1511	1662	1713	2292	1466	1704	1826	1674	1266	2568.33	18266
NAGPUR	1363	222	2282	190	3490	212	3525	235	2521	297	1264	330	614	360	732	385	931	420	1285	399	999	370	885	500	1657.58	3920
NASIK	1241	178	1639	41	2947	29	4798	25	5767	36	2041	79	718	56	621	278	1140	35	1413	24	1174	24	1125	26	2062	831
PATNA	2534	235	2823	235	3030	205	3701	160	5059	220	4882	201	4185	160	4019	190	4367	310	4330	275	4036	325	4308	235	3893.5	2751
PUNE	1408	883	2594	590	4696	585	5224	440	5066	424	2561	1091	886	1487	1640	1246	2107	1076	1983	1327	1469	1028	1126	1279	2570.83	11456
RAIPUR	1522	80	1633	63	1979	52	2148	52	2148	52	1834	63	1081	77	1013	53	1183	46	1183	51	1072	59	1087	90	1479.42	735
RANCHI	1081	633	1121	722	1653	562	2386	405	2547	500	2241	592	1350	893	1179	624	1136	608	1230	620	1162	537	1187	654	1523.58	7350
SHIMLA	3250	67	3196	40	3157	34	3290	59	3280	34	2467	56	2656	58	2673	63	3286	63	4483	59	4015	72	3512	74	3272.08	679
SIRMAAR	2423	37	2986	25	2617	28	3350	22	4016	47	2354	103	2073	132	2426	56	2320	27	2288	24	2186	21	2244	25	2576.17	546
SURAT	1350	520	2109	256	4177	271	4223	472	4208	476	2508	646	982	806	601	678	629	648	1321	294	1519	561	739	738	2030.5	6366
TRIVENDRUM	2225	135	2560	131	3254	60	4025	87	4127	63	2938	73	2624	3408	2675	62	3088	63	3725	27	2788	140	2837	49	3072.17	4518



**Annual Wholesale Average Price Trend of Lime - 2011**



**Annual Total Arrival Trend of Lime - 2011**



## MOSAMBI

Origin	– Asia.
Major Producing States	– Andhra Pradesh, Karnataka, Maharashtra, Punjab and Rajasthan
Latest Production	– 13.16 Lakh Tonnes
Main varieties	– Main varieties of sweet orange in India being cultivated on commercial scale are Blood Red, Mosambi and Satgudi. Blood Red is the most important variety in Haryana, Punjab and Rajasthan; Mosambi is most popular in Maharashtra whereas Satgudi is extensively grown in Andhra Pradesh. Currently, exotic varieties like Jaffa, Hamlin and Pineapple are performing well in Punjab, Haryana and Rajasthan, Valencia, has also shown good adaptability.
Pre-cooling	– Forced air
Storage Conditions	
Temperature	: 3 - 4 <sup>0</sup> C
Relative Humidity	: 85-95%
Storage period	: 2-4 weeks





## Sensibility to

– Odours

## Growing Belts

The major mosambi producing belts are as follows :

- Maharashtra (Ahmed Nagar, Aurangabad, Jalgaon, Amravati, Pune)
- Karnataka (Kodagu, Bijapur, Chikmagalore)
- Andhra Pradesh (Vijayawada, Ananathapur, Nelgonda, Rangareddy)
- Rajasthan (Shri Ganganagar, Jhalawada, Kota)
- Punjab (Firozpur, Faridkot, Hoshiarpur)

## HARVESTING SEASON OF MOSAMBI

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH	PEAK SEASON	LEAN SEASON	LEAN SEASON				PEAK SEASON		LEAN SEASON	LEAN SEASON	PEAK SEASON	PEAK SEASON
ARUNACHAL PRADESH											LEAN SEASON	PEAK SEASON
ASSAM												
BIHAR												
CHHATTISGARH												
DELHI												
GOA												
GUJARAT												
HARYANA	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	PEAK SEASON
HIMACHAL PRADESH	PEAK SEASON	LEAN SEASON									PEAK SEASON	PEAK SEASON
JAMMU & KASHMIR								LEAN SEASON	LEAN SEASON		PEAK SEASON	PEAK SEASON
JHARKHAND												
KARNATAKA					LEAN SEASON	LEAN SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	LEAN SEASON	
KERALA												
MADHYA PRADESH	PEAK SEASON	LEAN SEASON	PEAK SEASON	LEAN SEASON								
MAHARASHTRA		LEAN SEASON	LEAN SEASON	PEAK SEASON	LEAN SEASON				LEAN SEASON	PEAK SEASON	PEAK SEASON	LEAN SEASON
MANIPUR												
MEGHALAYA												
MIZORAM										LEAN SEASON		PEAK SEASON
NAGALAND												
ORRISA	PEAK SEASON	PEAK SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON			PEAK SEASON	PEAK SEASON
PUNJAB											PEAK SEASON	LEAN SEASON
RAJASTHAN										PEAK SEASON	LEAN SEASON	
SIKKIM											PEAK SEASON	PEAK SEASON
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERY												

PEAK SEASON

LEAN SEASON

ROUND THE YEAR

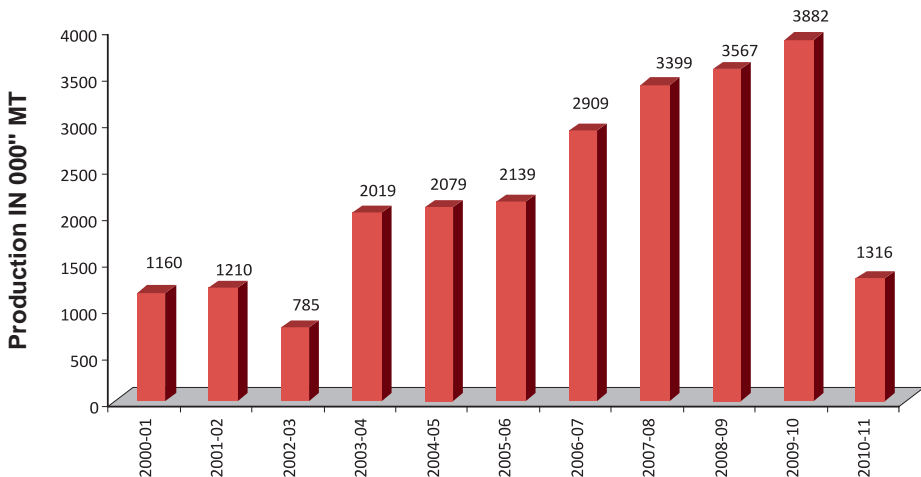
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF MOSAMBI

YEAR	AREA (IN 000" HA)	%OF TOTAL FRT.AREA	PRODUCTION (IN 000"MT)	%OF TOTAL FRT.PRODUCTION	PRODUCTIVITY (IN MT/HA)
2000-01	80.6	2.1	1160.4	2.7	14.4
2001-02	126.4	3.2	1210.4	2.8	9.6
2002-03	146.1	3.9	785.3	1.7	5.4
2003-04	194.5	4.2	2019.1	4.4	10.4
2004-05	194.4	3.9	2078.7	4.2	10.7
2005-06	230.3	4.3	2138.6	3.9	9.3
2006-07	268.8	4.8	2909.4	4.9	10.8
2007-08	300.2	5.1	3398.6	5.2	11.3
2008-09	317.83	5.2	3567.35	5.2	11.2
2009-10	346.30	5.5	3882.40	5.4	11.2
2010-11	157.00	2.5	1316.00	1.8	8.4

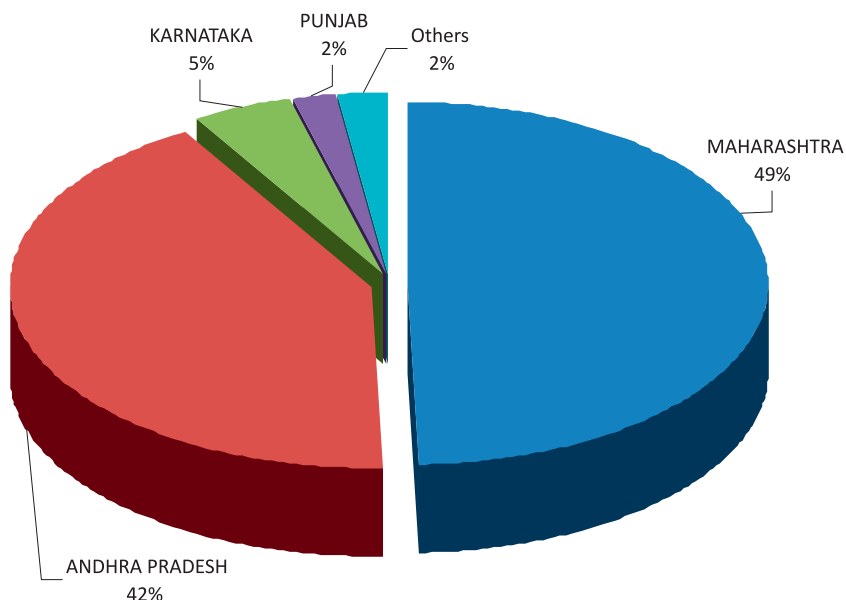
### Production Trend of Mosambi



## STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF MOSAMBI

State	AREA IN 000" HA			PRODUCTION IN 000" MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
MAHARASHTRA	99.0	608.0	6.1	108.1	732.0	6.8	107.0	652.0	6.1
ANDHRA PRADESH	211.3	2853.1	13.5	223.8	3021.3	13.5	40.4	551.5	13.7
KARNATAKA	3.5	68.0	19.5	3.7	68.0	18.4	3.4	59.3	17.4
PUNJAB	In Others						2.9	23.1	8.0
Others	4.0	38.2	9.6	10.8	61.0	5.7	3.1	30.3	9.7
<b>TOTAL</b>	<b>317.8</b>	<b>3567.4</b>	<b>11.2</b>	<b>346.4</b>	<b>3882.3</b>	<b>11.2</b>	<b>156.8</b>	<b>1316.2</b>	<b>8.4</b>

### Leading Mosambi Producing States During 2011



# MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF MOSAMBI DURING THE PERIOD

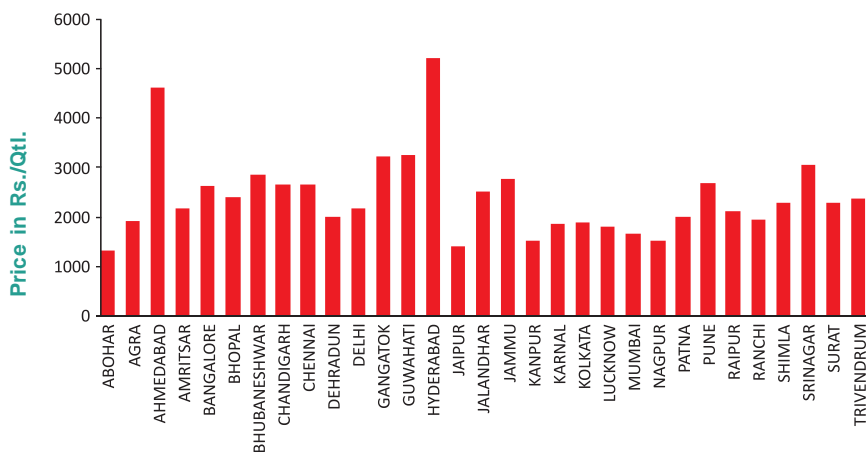
JANUARY TO DECEMBER, 2011

Average Wholesale Price in Rs./Qtl.  
Total Arrivals in M.T.

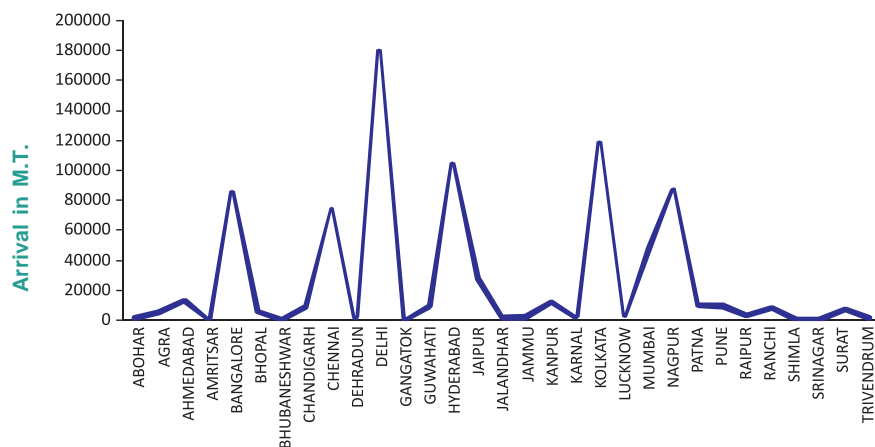
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival
ABOCHAR	1396 55	-	-	-	-	-	-	1500 94	1475 94	1326 133	1133 130	1104 147	1339 653
AGRA	2457 173	1436 335	1486 329	2383 310	2848 370	2125 379	1956 445	1607 530	1340 610	1341 522	1980 377	2220 212	1931.58 4592
AHMEDABAD	5265 1973	2524 3827	3887 1073	4728 501	5375 437	5088 334	5427 620	5402 581	5407 565	3837 709	4544 881	4625.75 12392	
AMRITSAR	-	-	-	2425 94	3475 41	2800 77	2069 97	1865 156	1591 294	1850 216	1443 231	-	2188.75 1206
BANGALORE	2877 4001	2371 7071	2413 6615	2659 6752	3408 5724	2923 6990	2383 5589	3129 5051	2340 6479	2609 9432	2415 7061	1976 13404	2426.08 84169
BHOPAL	2326 590	1883 611	1424 460	2507 482	3963 173	3588 131	2717 180	2658 292	2204 652	1919 555	1829 942	2102 567	2416.33 5625
BHUBANESHWAR	2700 17	-	-	-	-	3862 9	3198 45	3110 60	2546 57	2325 54	2796 48	2688 63	2680.63 393
CHANDIGARH	-	-	-	2867 85	3069 1070	3040 1237	3022 2065	2448 1170	2320 1057	2126 981	2353 503	-	2658.13 8168
CHENNAI	2775 1326	2287 2755	2236 3608	3340 2380	3968 3197	3324 3360	2504 3870	2185 16710	2288 12185	2515 7070	2317 6971	2405 9263	2670.33 73095
DEHRADUN	2525 33	2407 54	1722 111	2317 179	2596 163	2267 181	1325 418	1466 357	1676 208	1667 114	1804 122	2010 2051	
DELHI	1579 2983	1570 8629	2059 18831	3314 11283	3820 10226	2764 12209	2446 19708	1925 22693	1598 30503	1683 22391	1642 11032	1570 7975	2172.42 178463
GANGATOK	3535 15	3083 16	2926 25	3664 18	4524 22	4430 20	3872 20	3020 24	2279 21	2509 22	2406 19	2413 13	3230.08 233
GUWAHATI	-	3650 15	3216 297	3832 331	4112 427	3828 999	4269 557	3640 561	2265 912	2314 571	2311 3122	2373 614	3255.45 8436
HYDERABAD	2056 8007	4829 4777	6608 10098	5381 5161	3268 5923	4416 5076	3808 7556	2586 7076	7276 3706	6209 17321	7158 10414	9104 18234	5208.25 103349
JAIPUR	1250 1332	1133 1417	1495 2565	1991 2162	1991 2424	1367 2042	1524 1767	1503 2679	1193 3875	1320 3544	1222 2304	1182 1697	1405.92 27508
JALANDHAR	-	-	-	2536 273	2578 311	2857 251	2389 248	2313 237	1979 306	2903 262	2358 69	-	2526.63 1957
JAMMU	-	2256 105	2363 291	3241 165	4948 110	3594 179	3048 193	2477 309	2146 276	2225 186	2371 247	1985 259	2786.73 2320
KANPUR	1237 548	1129 870	1171 1166	2410 714	2703 610	1950 1540	1433 1569	1351 1313	984 2050	982 566	-	-	1335 10946
KARNAL	2772 153	2752 125	1589 187	1932 45	2838 73	2097 131	1510 155	1483 141	1456 147	1554 160	1417 127	1323 145	1876.92 1359
KOLKATA	1996 6876	1539 6480	2052 5520	1964 16172	2953 7152	2644 5456	2181 7168	1665 9588	1583 18464	1551 8736	1459 13968	1319 11537	1908.83 117097
LUCKNOW	-	1578 210	1457 237	2226 367	2877 273	2190 918	1735 461	1649 349	1519 591	1511 351	1652 209	1757 181	1814.64 4147
MUMBAI	1858 6030	1395 3880	1470 7720	1786 3215	2045 1267	1913 993	1721 1393	1748 2300	1562 3358	1585 5350	1462 5710	1408 5780	1662.75 46946
NAGPUR	1457 4480	1124 8300	1476 8220	2676 4950	2280 3920	2023 3030	1793 3220	1298 5790	1089 11058	1086 19000	1083 8400	1001 5180	1530.5 85558
PATNA	1625 285	1552 630	1623 1365	2515 495	2927 510	2256 1095	2259 795	2248 830	1791 1440	1780 1380	1674 1275	1500 55	1998.83 10155
PUNE	2620 954	2594 1139	2459 792	3750 441	4387 394	3387 673	2229 1131	2173 1183	2200 805	2350 680	2150 437	1453 800	2692.67 9429
RAIPUR	1878 280	1613 255	1719 268	2768 179	3362 184	2904 259	2554 273	2154 269	1693 326	1663 246	1570 246	1488 332	2113.83 3097
RANCHI	1249 583	1438 572	1891 579	2672 448	3174 478	3287 659	2697 804	1350 587	1346 685	1536 567	1462 621	1391 655	1957.75 7218
SHIMLA	-	-	-	-	-	-	-	-	-	-	-	-	2300 1
SRINAGAR	-	-	-	3030 21	3963 27	3626 26	3256 46	2607 29	3219 16	2463 22	2436 18	-	3062.5 205
SURAT	2706 420	2559 232	2238 594	2877 592	4148 238	2904 373	2483 469	1971 552	1675 593	1425 662	1346 948	1242 816	2297.83 6459
TRIVENDRUM	2353 48	2052 63	2085 46	2338 4	2467 3	2068 67	2227 63	2739 52	2595 69	2629 35	2562 107	2515 35	2395 625



### Annual Wholesale Average Price Trend of Mosambi - 2011



### Annual Total Arrival Trend of Mosambi - 2011





## ORANGE (MANDARIN)

**Major Producing States** – Maharashtra, Madhya Pradesh, Tamil Nadu, Rajasthan, Assam & Tripura.

**Latest Production** – 32.55 Lakh Tonnes

**Main Varieties** – In India, specific cultivars of mandarins are cultivated in different regions. For example, Coorg manadarin is typical to Coorg and Wynad regions of Karnataka, whereas Nagpur mandarin is ideally-suited to Vidarbha region. Similarly, Darjeeling mandarin, Khasi and Sumithra mandarins are basically adapted to Darjeeling, Khasi hills and Assam respectively. Of many exotic introductions, Kinnow mandarin has acclimatized very well in semi-arid irrigated zones of Punjab and its adjoining states, and in Nagpur and Akola regions of Maharashtra.

**Pre-cooling** – Forced air

### Storage Conditions

Temperature : 5 - 7°C  
Relative Humidity : 85-90%  
Storage period : 4-8 weeks  
Freezing point : - 3 to -2°C

**Sensibility to** – Refrigeration and Freezing

## Growing Belts

- Maharashtra (Nagpur, Akola, Amravati, Wardha)
- Rajasthan (Jhalawad, Kota)
- Karnataka (Chikmagalur, Kodagu, Hassan)
- Madhya Pradesh (Chhindwada, Mandsaur, Betul, Ujjain, Shajapur)
- Nagaland (Wokha, Tuensang) and Mizoram (Aizawl)
- Tamil Nadu (Dindigul, Salem, Nilgiris) and West Bengal (Darzeeling)
- Assam (Tinsukia, NC Hills, Karbi Anglong) and Tripura
- Meghalaya ( East & West Khasi, Ri-Bhoi, Garo Hills, Jointia Hills)





## HARVESTING SEASON OF ORANGE (MANDARIN)

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH												
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATISHGARH												
DELHI												
GOA												
GUJARAT												
HARYANA												
HIMACHAL PRADESH												
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH												
MAHARASHTRA												
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORRISA												
PUNJAB												
RAJASTHAN												
SIKKIM												
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERY												

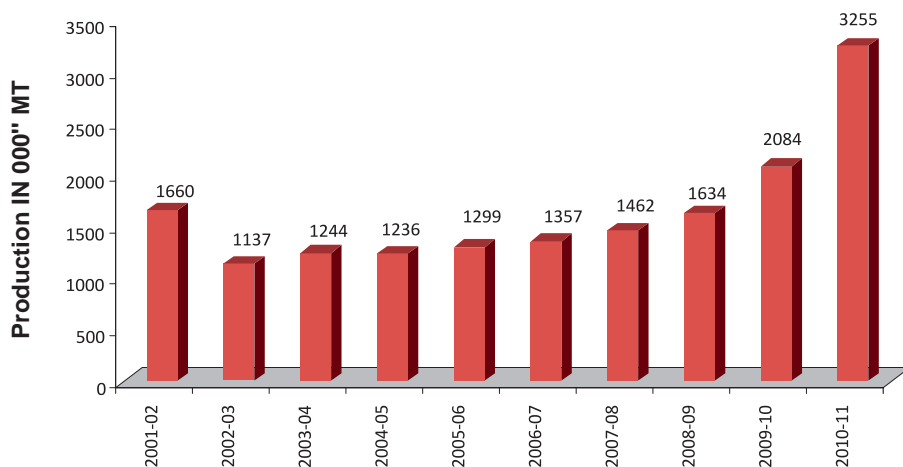
PEAK SEASON
LEAN SEASON
ROUND THE YEAR

SOURCE : Director of Horticulture / Agriculture of respective State / UT's

## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF ORANGE

YEAR	AREA (IN 000" HA)	%OF TOTAL FRT. AREA	PRODUCTION (IN 000"MT)	%OF TOTAL FRT. PRODUCTION	PRODUCTIVITY (IN MT/HA)
2001-02	198.9	5.0	1660.1	3.9	8.3
2002-03	142.8	3.8	1136.6	2.5	8.0
2003-04	183.4	3.9	1244.1	2.7	6.8
2004-05	183.6	3.7	1235.7	2.5	6.7
2005-06	210.8	4.0	1298.8	2.3	6.2
2006-07	198.4	3.6	1357.5	2.3	6.8
2007-08	218.1	3.7	1461.7	2.2	6.7
2008-09	245.5	4.0	1634.0	2.4	6.7
2009-10	285.0	4.5	2084.0	2.9	7.3
2010-11	324.0	5.1	3255.0	4.3	10.0

### Production Trend of Orange





## STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF ORANGE

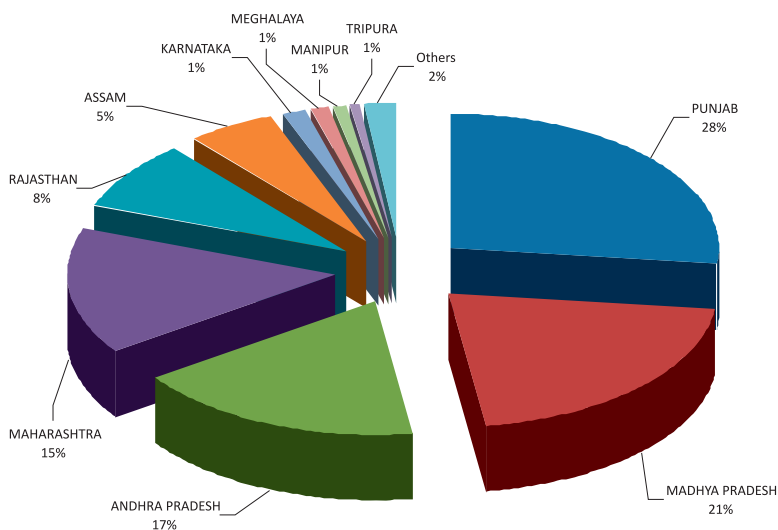
AREA IN 000" HA

PRODUCTION IN 000" MT

PRODUCTIVITY HA/MT

State	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
PUNJAB				In Others			41.2	872.6	21.2
MADHYAPRADESH	31.47	503.58	16.0	38.3	677.8	17.7	38.0	684.9	18.0
ANDHRA PRADESH							42.0	567.5	13.5
MAHARASHTRA	126.00	644.00	5.1	138.0	826.5	6.0	128.0	500.0	3.9
RAJASTHAN	8.29	157.46	19.0	8.9	135.0	15.2	15.2	272.5	17.9
ASSAM	8.50	93.39	11.0	12.8	141.8	11.1	14.8	170.7	11.5
KARNATAKA	1.84	36.55	19.8	1.9	36.6	19.3	2.2	41.3	18.8
MEGHALAYA	10.06	43.10	4.3	10.1	43.1	4.3	8.4	35.3	4.2
MANIPUR				In Others			3.5	27.7	7.9
TRIPURA							3.8	23.6	6.1
Others	55.2	123.9	2.2	75.0	223.2	3.0	26.6	59.2	2.2
<b>TOTAL</b>	<b>245.49</b>	<b>1633.95</b>	<b>6.7</b>	<b>285.0</b>	<b>2084.0</b>	<b>7.3</b>	<b>323.8</b>	<b>3255.2</b>	<b>10.1</b>

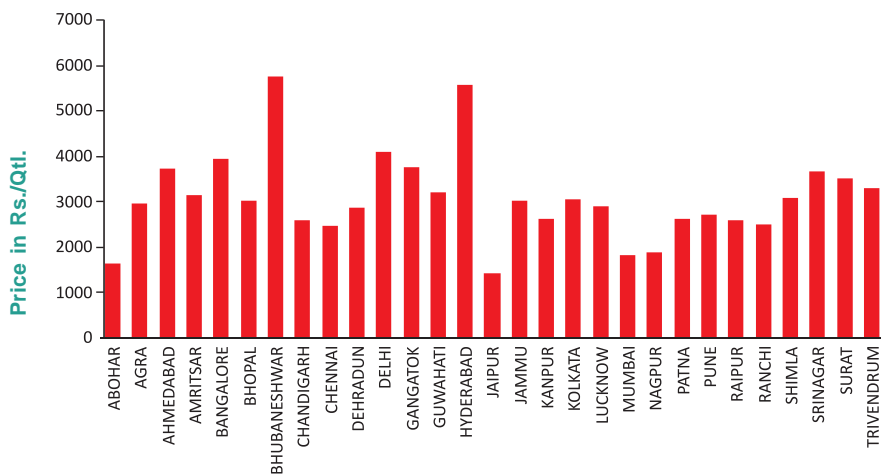
### Leading Orange Producing States 2011



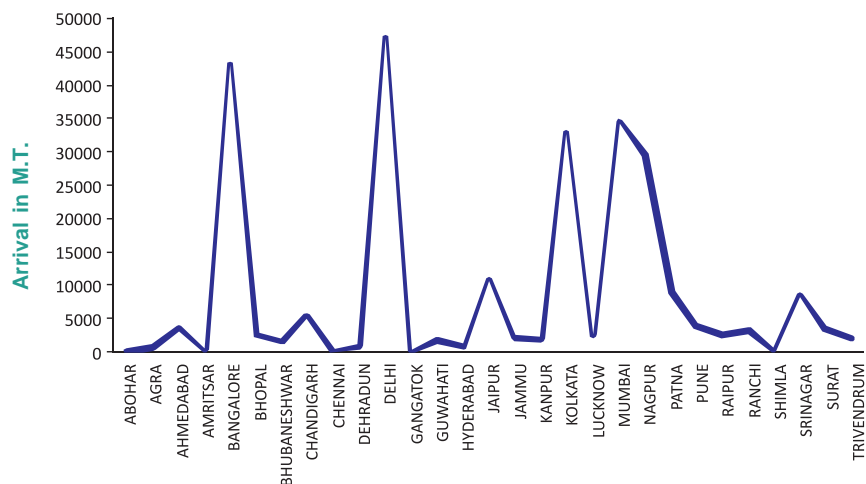




### Annual Wholesale Average Price Trend of Orange - 2011



### Annual Total Arrival Trend of Orange - 2011



## GRAPES

- Origin** – Central Asia (Region between Black sea and Caucasian sea)
- Major Producing States** – Maharashtra, Karnataka, Tamil Nadu, Andhra Pradesh and Punjab
- Latest Production** – 12.35 Lakh Tonnes
- Main Varieties** – Thomson Seedless and its clones viz.; Tas-A-Ganesh, Sonaka and Manik Chaman; Perlette, Bangalore Blue (Isabella), Kishmish Chernyi (Sharad Seedless), Muscat Hamburg (Gulabi), Flame Seedless, Red Globe, Crimson Seedless and Manjri Naveen (A clonal selection from Centennial Seedless).

**Commercial varieties can be grouped under four categories based on colour & seeds:**

- Coloured seeded** - Red Globe, Bangalore Blue (Isabella), Muscat Hamburg (Gulabi),
- Coloured seedless** - Kishmish Chernyi (Sharad Seedless) and Flame Seedless
- White seedless** - Thompson Seedless and its clones (Tas-A-Ganesh, Sonaka and Manik Chaman) and Perlette

Thompson Seedless and its clones are the major white seedless grapes grown on approximate 70% area. Other seeded and seedless varieties viz.; Kishmish Chernyi (Sharad Seedless), Flame Seedless, Red Globe, Perlette etc. cover rest area.

- Advanced Technology Propagation** – Hardwood cutting and bench grafting with machine.



### Harvesting

- Harvest early in the morning, Stack the pallets in the shade, Transport with covered trailer, use of adequate precooling techniques rapidly removes the field heat.

### Pre-cooling

- Forced air cooling

### Storage Conditions

–

Temperature	:	1-0 °C (depends on variety and TSS)
Relative Humidity	:	90-95%
Air velocity	:	An air velocity of approximately 20-40 feet per minute (FPM) is suggested during storage.
Freezing point	:	-3 to -2°C (depends on variety and TSS)
Storage period	:	5-12 weeks(depends on variety and TSS)

### Sensibility to

- Stem freezing

### Growing Belts

The major grapes production belts are as follows:

- Maharashtra: Nasik,Sangli, Solapur and Pune.
- Karnataka: Bijapur, Bangalore (R&U) and Kolar.
- Tamil Nadu: TheniandCumbum valley
- Andhra Pradesh: Hyderabad and Rangareddy

## HARVESTING SEASON OF GRAPES

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH	PEAK	PEAK	PEAK	PEAK								
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATTISGARH												
DELHI												
GOA												
GUJARAT												
HARYANA					PEAK	PEAK	PEAK					
HIMACHAL PRADESH						PEAK	PEAK					
JAMMU & KASHMIR					PEAK	PEAK	PEAK					
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH		PEAK	PEAK	PEAK	PEAK							
MAHARASHTRA	PEAK	PEAK	PEAK	PEAK	PEAK						PEAK	PEAK
MANIPUR												
MEGHALAYA												
MIZORAM									PEAK	PEAK		
NAGALAND								PEAK	PEAK			
ORRISA												
PUNJAB					PEAK	PEAK	PEAK					
RAJASTHAN						PEAK	PEAK					
SIKKIM												
TAMIL NADU				PEAK	PEAK			PEAK	PEAK	PEAK	PEAK	PEAK
TRIPURA												
UTTAR PRADESH						PEAK	PEAK					
UTTARAKHAND			PEAK	PEAK		PEAK	PEAK					
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERRY												

PEAK SEASON

LEAN SEASON

ROUND THE YEAR

SOURCE : Director of Horticulture / Agriculture of respective State / UT's

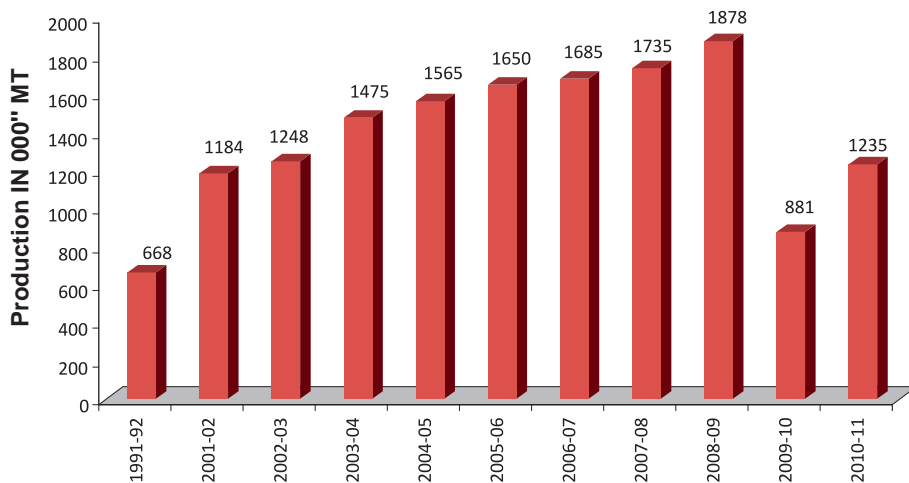




## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF GRAPES

YEAR	AREA (IN 000" HA)	%OF TOTAL FRT.AREA	PRODUCTION (IN 000"MT)	%OF TOTAL FRT.PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	32.4	1.1	668.2	2.3	20.6
2001-02	47.5	1.2	1184.2	2.8	24.9
2002-03	52.1	1.4	1247.8	2.8	24.0
2003-04	57.8	1.2	1474.8	3.2	25.5
2004-05	60.5	1.2	1564.7	3.2	25.9
2005-06	66.0	1.2	1649.6	3.0	25.0
2006-07	65.0	1.2	1685.0	2.8	25.9
2007-08	68.0	1.2	1735.0	2.6	25.5
2008-09	80.0	1.3	1878.0	2.7	23.5
2009-10	106.4	1.7	880.7	1.2	8.3
2010-11	111.0	1.7	1235.0	1.6	11.1

### Production Trend of Grapes



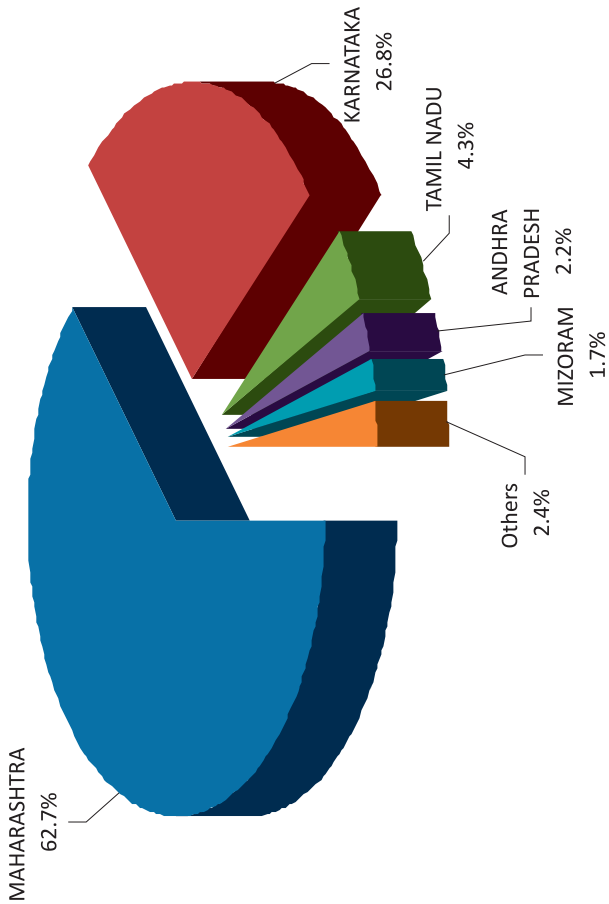
## STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF GRAPE



State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
MAHARASHTRA	55.7	1415.0	25.4	82.0	440.0	5.4	86.0	774.0	9.0
KARNATAKA	14.9	269.0	18.0	17.4	317.6	18.3	18.1	330.3	18.3
TAMIL NADU	3.1	91.0	29.8	2.6	44.1	16.8	2.7	53.0	19.3
ANDHRA PRADESH	3.0	62.2	21.0	1.4	29.8	21.0	1.3	27.6	21.0
MIZORAM			Included In Others				1.6	20.4	12.9
Others	3.0	41.1	13.8	2.9	49.2	16.7	1.7	29.5	17.3
<b>TOTAL</b>	<b>79.6</b>	<b>1878.3</b>	<b>23.6</b>	<b>106.4</b>	<b>880.7</b>	<b>8.3</b>	<b>111.4</b>	<b>1234.9</b>	<b>11.1</b>



### Leading Grape Producing States (2010-2011)



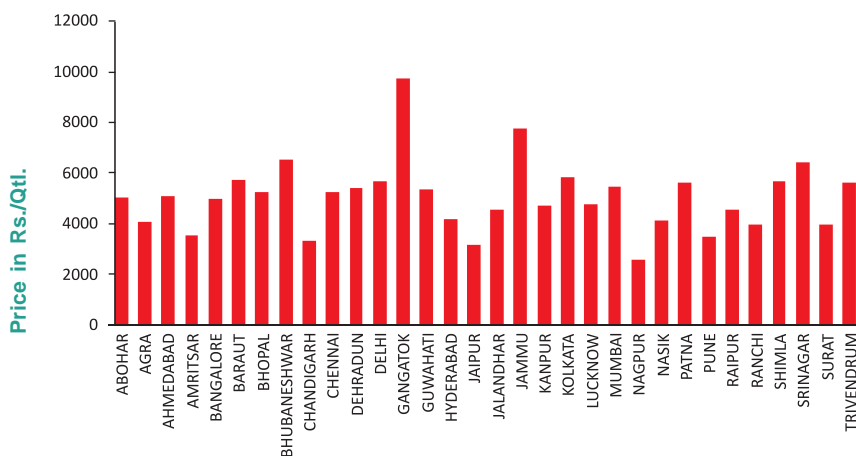
**MONTHLY AVERAGE WHOLESale PRICE AND ARRIVAL OF GRAPE DURING THE PERIOD  
JANUARY TO DECEMBER, 2011**

Average Wholesale Price in Rs./Qtl.  
Total Arrivals in M.T.

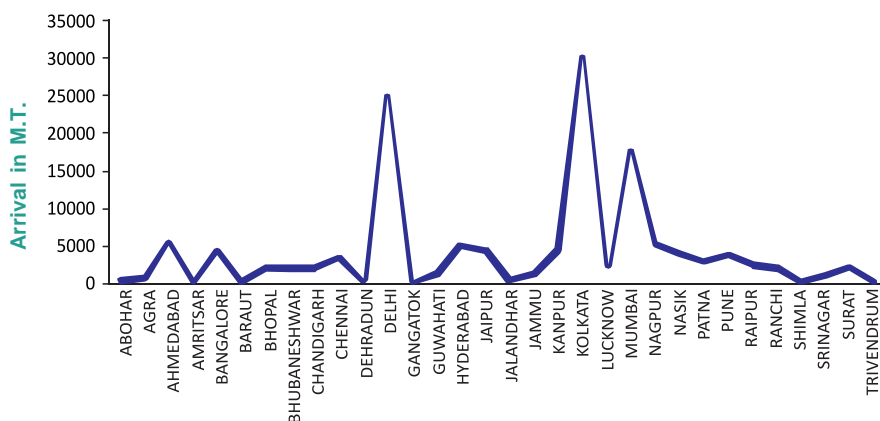
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual			
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival		
BOBHAR	-	-	2038	24	2260	41	3835	30	7300	25	7623	26	7260	25	-	-	-	-	-	-	-	-	-	-	-	5052.67	171	
AGRA	-	-	-	-	4048	460	4205	324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4126.5	784	
HIMMADABAD	-	-	4775	748	3617	1496	4632	1506	5948	1234	6583	388	-	-	-	-	-	-	-	-	-	-	-	-	-	5111	5372	
AMRITSAR	-	-	3619	51	3825	77	5403	62	-	-	1354	29	-	-	-	-	-	-	-	-	-	-	-	-	-	3550.25	219	
ANGALORE	4896	757	3465	1050	3969	1248	5818	740	6792	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4988	3955	
SARAUT	-	-	-	-	4922	39	6574	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5738	66	
GHOPAL	-	-	3598	445	3428	749	5648	508	8338	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5258	1865	
SHUBANESHWAR	5079	228	4259	369	4766	487	6046	409	7396	355	11000	1	-	-	-	-	-	-	-	-	-	-	-	-	7500	1	6573.71	1850
CHANDIGARH	4000	348	3961	739	3986	675	4324	232	-	-	-	-	-	-	-	700	35	-	-	-	-	-	-	-	-	3336.2	2029	
CHENNAI	-	-	-	-	4565	1529	5117	1042	6223	580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5301.67	3151	
DEHRADUN	-	-	4563	22	3972	130	5241	193	8063	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5459.75	350	
DELHI	4979	2635	4380	6402	4820	6937	7048	2855	8213	610	4463	141	5337	103	6198	113	5712	151	6393	945	5796	724	5442	3724	5728.42	24740		
SANGATOK	-	-	7474	15	5774	29	8416	20	12884	15	14385	4	-	-	-	-	-	-	-	-	-	-	-	-	-	9786.6	84	
SUNAHATI	-	-	4491	470	4975	532	6718	203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5394.67	1205	
HYDERABAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5200	201	4531	296	3075	1340	4660	1228	3577	1837	4208.6	4902		
JAIPUR	3392	75	2575	1236	2249	1973	3274	1080	4367	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3211.4	4293	
MALANDHAR	-	-	-	-	3625	115	4313	98	5600	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4579.33	228	
AMMU	7288	151	5968	383	6685	384	8514	137	9333	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7773.5	1154	
KANPUR	5243	225	3719	1538	3400	1902	4330	595	7000	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8853	74	
KOLKATA	5497	4300	4771	4592	5106	5536	5334	13600	9584	1944	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4738.4	4189	
LUCKNOW	-	-	3877	658	3617	1029	4664	588	7012	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5688.4	39972	
JUMBEI	4633	2888	4386	3817	4575	5947	5496	2258	6229	404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4792.5	2350	
NAGPUR	3200	400	2587	1145	2327	1300	3316	560	3080	447	1823	295	2240	280	2712	130	2367	203	2048	198	2487	149	2487	62	7652	2100	5495.17	17414
NASIK	3975	175	2996	1670	3093	1395	4607	294	6313	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4792.5	2350	
ATNA	-	-	4543	465	3983	1430	5082	790	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4156.8	3744	
JUNE	-	-	5494	1044	4689	1546	5053	813	-	-	2475	53	-	-	-	-	-	-	-	-	-	-	-	-	-	9000	30	
RAIPUR	4033	69	3800	906	3477	1128	4945	265	6740	52	-	-	-	-	-	2200	45	2300	43	-	-	-	-	-	-	2500	65	
RANCHI	4806	195	3532	555	3613	727	4260	413	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4599	2420	
SHIMLA	-	-	-	-	4173	26	5014	44	8012	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4002.75	1890	
SRINAGAR	6183	300	5518	263	6226	223	7033	100	7850	30	7280	9	-	-	-	-	-	-	-	-	-	-	-	-	-	5733	83	
SURAT	4625	64	2986	660	3529	954	4811	338	-	-	-	-	-	-	-	-	-	-	4987	3	-	-	-	-	-	6436.71	928	
VENDRUM	7500	1	4013	41	3511	21	4622	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3987.75	2016	
TRIVENDRUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5679.2	81	



### Annual Wholesale Average Price Trend of Grape - 2011



### Annual Total Arrival Trend of Grape - 2011



## GUAVA

<b>Origin</b>	– Tropical America
<b>Major Producing States</b>	– Bihar, Uttar Pradesh, Karnataka, Madhya Pradesh, Gujarat, Andhra Pradesh & Maharashtra
<b>Latest Production</b>	– 24.62 Lakh Tonnes
<b>Main Varieties</b>	– Allahabad Safeda, Lucknow-49, Chittidar, Nagapur Seedless, Bangalore, Dharwar, Akra Mridula, Arka Amulya, Harijha, Hafshi, Allahabad Surkha CISH-G-1, CISH-G2, CISH-G-3 etc.
<b>Advanced Technology</b>	– High density planting
<b>Pre-cooling</b>	– Forced air
<b>Storage Conditions</b>	
Temperature	: 7-10°C
Relative Humidity	: 85-90%
Storage period	: 3-3 weeks
<b>Treatment for Quality</b>	– Vacuum infiltration of packaged fruits in 10% $\text{CaCl}_2$ at ambient temperature retards softening and increase the self-life. Coating of fruit with water soluble high-polymer stored at 10°C for 2 months.
<b>Sensibility to</b>	– Refregeneration and Ethylene
<b>Growing Belts</b>	



The major guava producing belts are as follows :

- Andhra Pradesh (Eash Godavari, West Godavari, Guntur, Krishna, Ananthapur, Medak, Khemmam) and Madhya Pradesh & Chhattisgarh (Raipur, Durg Jabalpur)
- Gujarat (Bhavnagar, Ahmedabad) and Bihar
- Maharashtra (Satara, Beed, Pune, Ahmeda Nagar, Aurangabad, Amravati)
- Uttar Pradesh (Allahabad, Farrukhabad, Aligarh, Badaun)
- Karnataka (Bangalore (R&U), Kolar, Shimoga, Dharwar)
- Tamil Nadu (Mudurai, Dindigul, Salem) and Orissa

## HARVESTING SEASON OF GUAVA

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH												
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATISHGARH												
DELHI												
GOA												
GUJARAT												
HARYANA												
HIMACHAL PRADESH												
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH												
MAHARASHTRA												
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORRISA												
PUNJAB												
RAJASTHAN												
SIKKIM												
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERY												

PEAK SEASON
LEAN SEASON
ROUND THE YEAR

SOURCE : Director of Horticulture / Agriculture of respective State / UT's

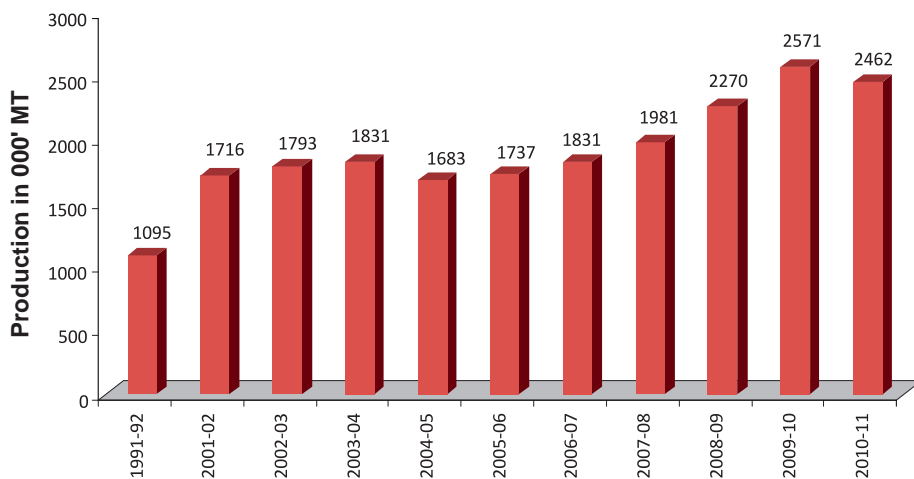




## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF GUAVA

YEAR	AREA (IN 000' HA)	%OF TOTAL FRT.AREA	PRODUCTION (IN 000'MT)	%OF TOTAL FRT.PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	94.0	3.3	1095.1	3.8	11.7
2001-02	154.6	3.9	1715.5	4.0	11.1
2002-03	154.6	4.1	1793.0	4.0	11.6
2003-04	166.4	3.6	1830.7	4.0	11.0
2004-05	161.0	3.2	1682.8	3.4	10.5
2005-06	166.5	3.1	1736.6	3.1	10.4
2006-07	176.0	3.2	1831.0	3.1	10.4
2007-08	179.0	3.1	1981.0	3.0	11.1
2008-09	204.0	3.3	2270.0	3.3	11.1
2009-10	219.7	3.5	2571.5	3.6	11.7
2010-11	205.0	3.2	2462.0	3.3	12.0

### Production Trend of Guava



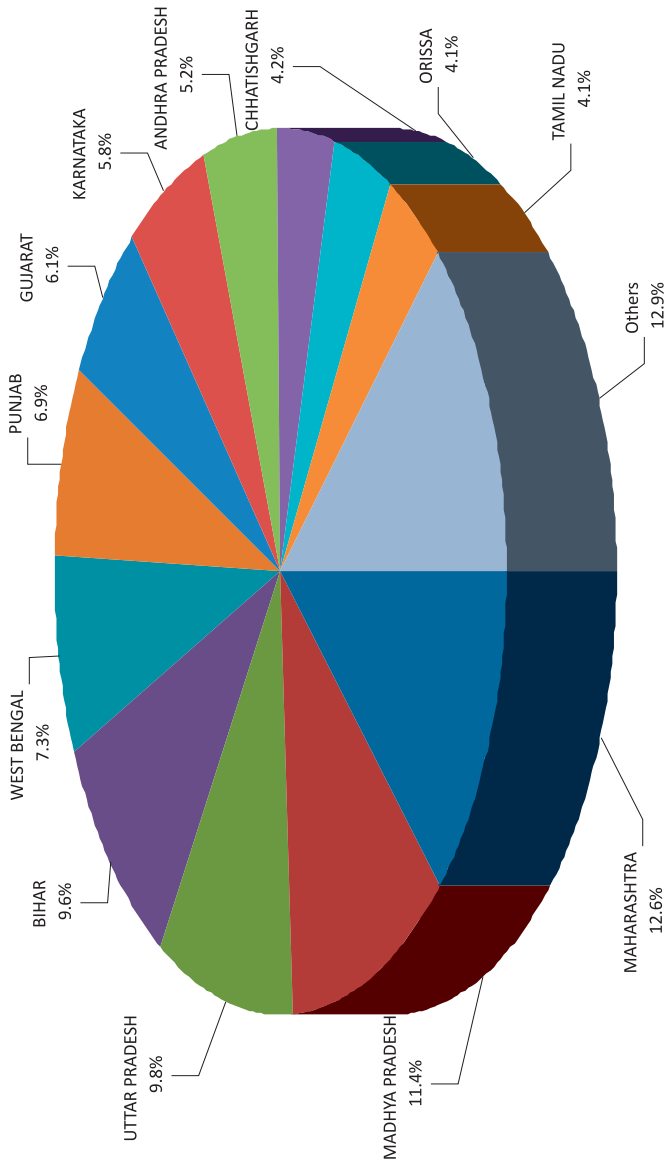
## STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF GUAVA



State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
MAHARASHTRA	32.5	257.3	7.9	33.5	258.0	7.7	36.0	311.0	8.6
MADHYAPRADESH		IN OTHERS		8.2	238.5	29.0	9.7	280.8	29.0
UTTAR PRADESH	34.0	412.6	12.1	39.9	486.7	12.2	14.6	241.4	16.5
BIHAR	29.1	229.2	7.9	29.2	231.5	7.9	29.4	235.2	8.0
WEST BENGAL	12.5	170.5	13.7	13.4	175.7	13.1	13.6	178.8	13.2
PUNJAB	8.0	160.5	20.0	8.0	169.3	21.2	7.8	171.0	21.8
GUJARAT	9.3	144.2	15.4	9.8	156.6	15.9	10.2	150.7	14.7
KARNATAKA	7.0	137.5	19.6	7.2	138.8	19.3	7.3	141.6	19.4
ANDHRA PRADESH	10.8	162.0	15.0	10.1	150.8	15.0	8.5	128.2	15.0
CHHATISHGARH		IN OTHERS			IN OTHERS		13.4	102.8	7.7
ORISSA		IN OTHERS		14.1	100.0	7.1	14.2	102.1	7.2
TAMIL NADU	9.2	101.7	11.0	7.0	92.5	13.2	7.6	100.8	13.2
Others	51.2	494.8	9.7	39.242	373.0	9.5	32.4	317.9	9.8
<b>TOTAL</b>	<b>203.7</b>	<b>2270.1</b>	<b>11.1</b>	<b>219.7</b>	<b>2571.5</b>	<b>11.7</b>	<b>204.8</b>	<b>2462.3</b>	<b>12.0</b>



### Leading Guava Producing States (2010-11)



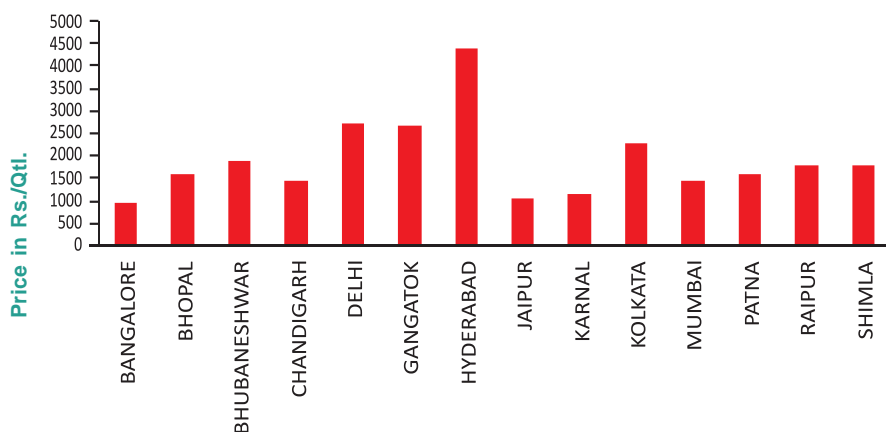
## MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF GUAVA DURING THE PERIOD JANUARY TO DECEMBER, 2011

Average Wholesale Price in Rs./Qlt.  
Total Arrivals in M.T.

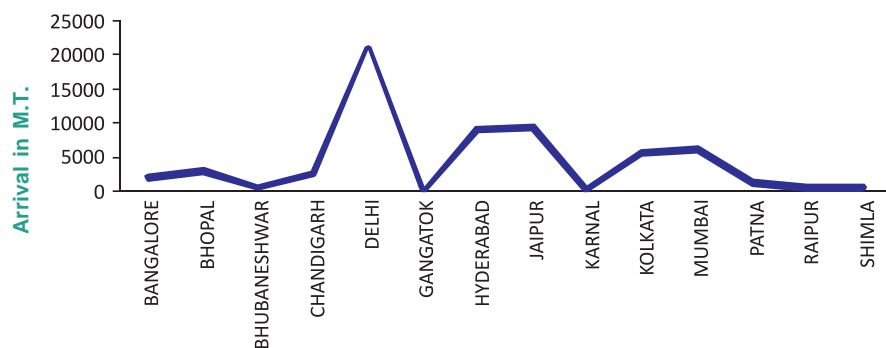
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual		
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	
BANGALORE	1135	66	885	61	912	99	932	123	902	169	1075	176	1238	154	1025	196	929	171	829	177	756	149	839	253	953.08	1794	
BHOPAL	1314	737	1617	431	-	-	-	-	1700	32	-	-	-	-	-	-	-	-	-	-	1781	802	1504	846	1383.2	2848	
BHUBANESHWAR	1704	34	2072	33	1806	38	1700	49	1965	29	1894	48	1733	45	1484	39	1887	42	2156	30	2023	35	2055	45	1874.08	467	
CHANDIGARH	1185	530	1583	361	1797	92	-	-	-	-	-	-	-	-	-	-	975	548	-	-	1420	375	1651	467	1435.17	2373	
DELHI	1872	4057	2583	2205	3486	481	4583	7	-	-	-	-	3250	26	2525	1624	1817	3008	2577	1083	2222	4204	2388	4304	2728.3	21009	
GANGATOK	2106	12	2264	11	2578	20	3304	14	3320	13	3211	10	3205	12	3078	12	2315	11	2380	11	2250	11	2289	9	2691.67	146	
HYDERABAD	1310	4026	3471	3181	-	-	-	-	-	-	-	-	-	-	-	-	5000	69	-	-	-	-	7833	1782	4403.5	9058	
JAIPUR	1002	3108	1001	1407	1162	222	-	-	-	-	-	-	-	-	-	1033	240	1219	542	1020	1802	1013	1982	1064.29	9283		
KARNAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1121	127	1121	127	
KOLKATA	2469	642	2370	887	2470	606	2486	888	2222	563	1804	396	1444	343	1403	466	1541	378	2823	322	4021	127	-	2283	5638		
MUMBAI	1574	639	1437	338	1688	220	-	-	-	-	-	-	-	-	1425	593	1362	2334	1342	542	1277	676	1432	741	1439.63	6083	
PATNA	1542	255	1616	100	-	-	-	-	-	-	-	-	1650	50	-	-	-	-	-	-	-	1685	365	1533	250	1801.2	1020
RAIPUR	1602	69	1680	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2168	52	1654	100	1776	266	
SHIMLA	1887	86	1614	54	1753	46	1985	51	-	-	-	-	-	-	-	-	-	-	-	-	1893	23	2112	85	1804	345	



**Annual Wholesale Average Price Trend of Guava - 2011**



**Annual Total Arrival Trend of Guava - 2011**



## LITCHI

**Major Producing States** – Bihar, Tripura, West Bengal, Uttaranchal, Assam and Punjab

**Latest Production** – 4.97 Lakh Tonnes

### State-wise Commercial varieties

<b>Bihar</b>	– Shahi, Rose Scented, China, Kasba, Purbi, Early Bedana, Late Bedana
<b>Uttar Pradesh</b>	– Rose Scented, Dehradun, Calcuttia
<b>West Bengal</b>	– Bombay Green, Kalyani Selection
<b>Punjab</b> –	Muzaffarpur, Dehradun, Seedless, Late Bedana

**Advanced Technology** – High density planting

**Pre-cooling** – Forced air

### Storage Conditions

Temperature	: 1 - 2°C
Relative Humidity	: 90-95%
Storage period	: 3-5 weeks

**Treatment for Quality** – Sulphur treatment

**Sensitivity to** – Refrigeration and Ethylene

### Growing Belts

The major litchi producing belts are as follows :

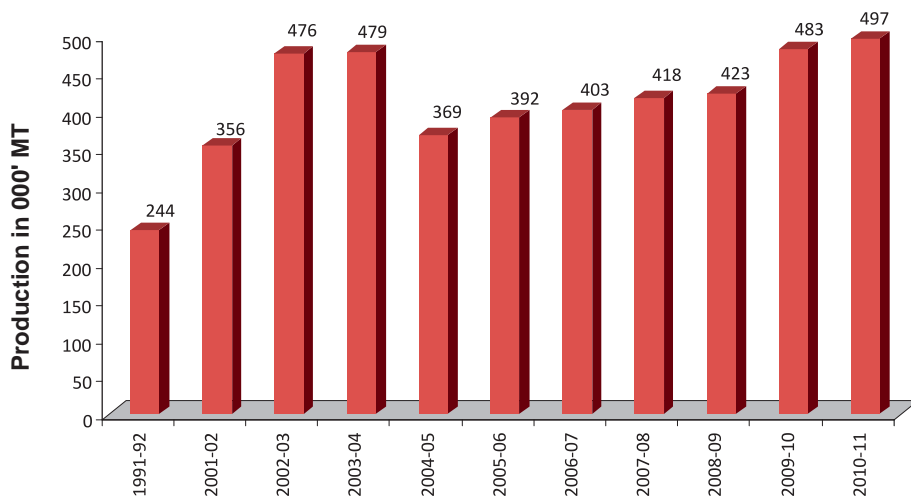
- Uttaranchal (Dehradun, Pithauragarh, Nainital, Haridwar)
- West Bengal (Murshidabad, 24 - Paraganas)
- Bihar (Muzzafarpur, East Champaran, Samastipur, Vaisali, Bhagalpur)
- Assam (Kamrup, Sonitpur, Bongaigaon)
- Punjab (Gurdaspur, Ropar, Hoshiarpur)
- Uttar Pradesh (Saharanpur,)
- Jharkhand & Tripura



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF LITCHI

YEAR	AREA (IN 000' HA)	%OF TOTAL FRT. AREA	PRODUCTION (IN 000'MT)	%OF TOTAL FRT. PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	49.3	1.7	243.8	0.9	4.9
2001-02	58.1	1.4	355.9	0.8	6.1
2002-03	54.1	1.4	476.4	1.1	8.8
2003-04	53.7	1.1	478.5	1.0	8.9
2004-05	60.0	1.2	368.6	0.7	6.1
2005-06	63.2	1.2	392.1	0.7	6.2
2006-07	65.0	1.2	403.0	0.7	6.2
2007-08	69.0	1.2	418.0	0.6	6.1
2008-09	72.0	1.2	423.0	0.6	5.9
2009-10	74.4	1.2	483.3	0.7	6.5
2010-11	78.0	1.2	497.0	0.7	6.4

### Production Trend of Litchi



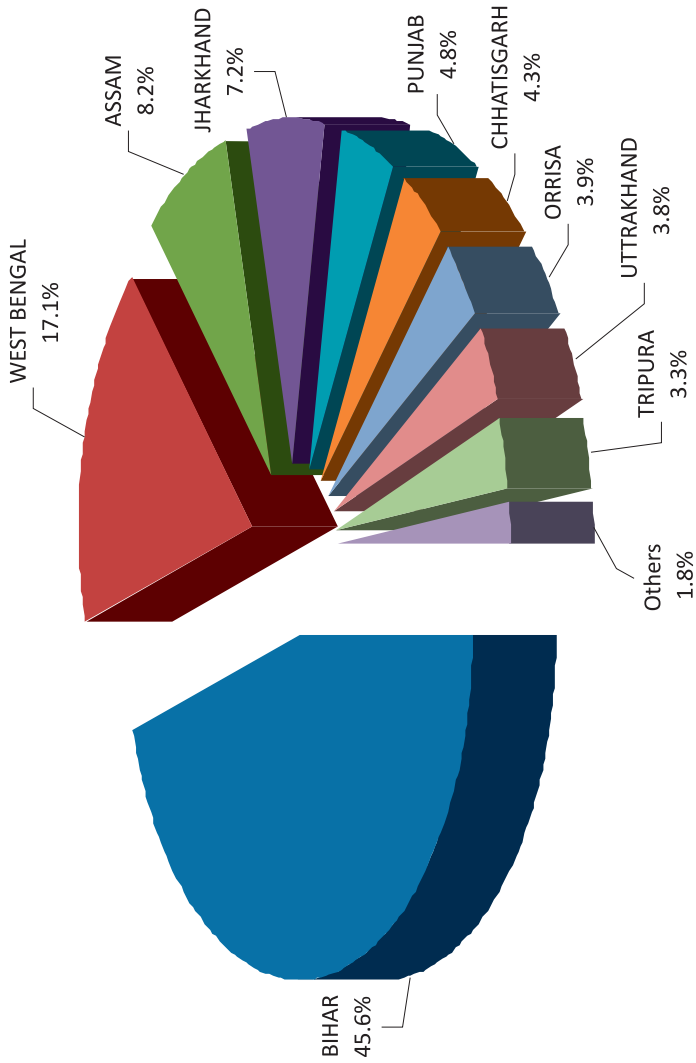
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF LITCHI

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
BIHAR	30.5	216.9	7.1	30.6	215.1	7.0	31.1	227.0	7.3
WEST BENGAL	8.4	81.2	9.7	8.4	82.4	9.8	8.6	85.1	9.9
ASSAM	4.8	34.9	7.2	5.1	39.2	7.7	5.2	40.5	7.8
JHARKHAND	4.3	20.3	4.8	4.3	51.1	12.0	4.3	35.9	8.4
PUNJAB	1.5	21.3	13.9	1.6	22.4	14.1	1.6	23.9	14.7
CHHATISGARH				3.0	17.8	6.0	3.9	21.4	5.5
ORISSA	4.2	13.0	3.1	4.3	17.1	4.0	4.4	19.2	4.4
UTTRAKHAND	8.8	15.3	1.7	9.1	15.7	1.7	9.3	18.7	2.0
TRIPURA	2.8	14.4	5.1	2.8	17.0	6.1	2.9	16.6	5.6
Others	6.6	6.2	0.9	5.2	5.5	1.1	6.3	9.1	1.4
<b>TOTAL</b>	<b>71.9</b>	<b>423.4</b>	<b>5.9</b>	<b>74.4</b>	<b>483.3</b>	<b>6.5</b>	<b>77.6</b>	<b>497.3</b>	<b>6.4</b>





Leading Litchi Producing States (2010-11)



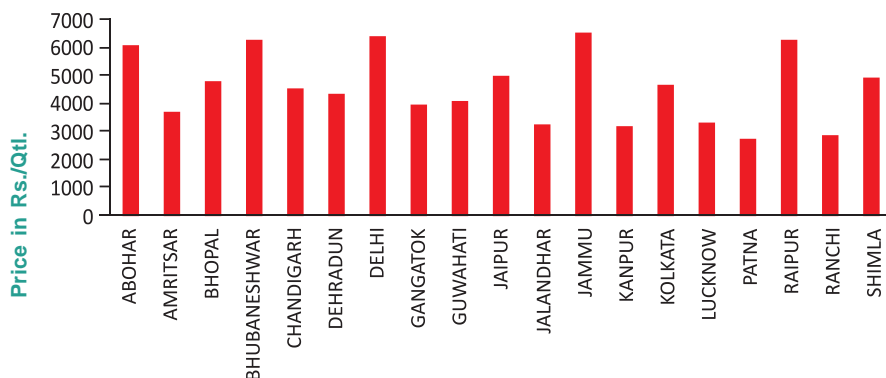
## MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF LITCHI DURING THE PERIOD JANUARY TO DECEMBER, 2011

Average Wholesale Price in Rs./Qtl.  
Total Arrivals in M.T.

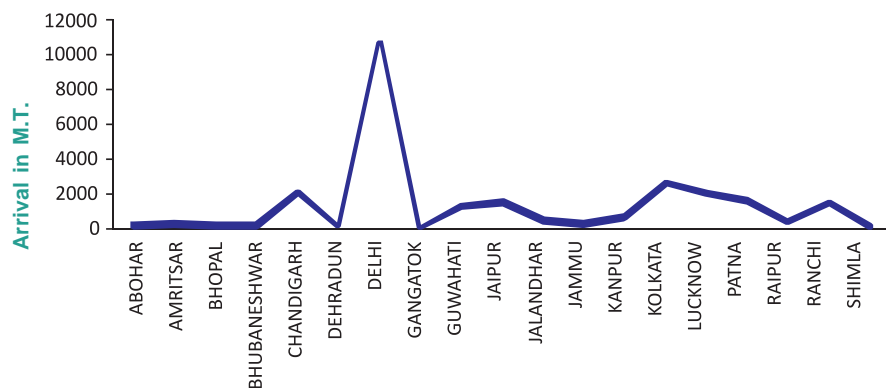
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival
ABOHR	-	-	-	-	-	5393	40	5584	30	7167	15	-	6036.33
AMRITSAR	-	-	-	-	-	3707	187	-	-	-	-	-	3707
BHOPAL	-	-	-	-	-	4779	84	-	-	-	-	-	4779
BHUBANESHWAR	-	-	-	-	6635	23	5823	55	-	-	-	-	6232
CHANDIGARH	-	-	-	-	4079	261	4200	1451	5366	236	-	-	4548.33
DEHRADUN	-	-	-	-	-	4266	122	4330	15	-	-	-	4288
DELHI	-	-	-	-	6313	2496	5240	7642	7453	384	-	-	6335.33
GANGATOK	-	-	-	-	-	5442	19	-	-	-	-	-	3971
GUWAHATI	-	-	-	-	4115	241	4016	915	-	-	-	-	4065.5
JAIPUR	-	-	-	-	5232	470	4694	998	-	-	-	-	4978
JALANDHAR	-	-	-	-	-	3251	282	3229	122	-	-	-	3240
JAMMU	-	-	-	-	6500	27	5813	200	7220	28	-	-	6511
KANPUR	-	-	-	-	3381	216	3014	336	-	-	-	-	3197.5
KOLKATA	-	-	-	-	4601	1031	4704	1454	-	-	-	-	4652.5
LUCKNOW	-	-	-	-	4061	148	2982	1728	2933	30	-	-	3315.33
PATNA	-	-	-	-	3107	530	2304	1005	-	-	-	-	2705.5
RAIPUR	-	-	-	-	6679	180	5866	149	-	-	-	-	6217.5
RANCHI	-	-	-	-	3061	293	2717	1031	-	-	-	-	2888
SHIMLA	-	-	-	-	-	5450	14	4410	29	-	-	-	4930



**Annual Wholesale Average Price Trend of Litchi - 2011**



**Annual Total Arrival Trend of Litchi - 2011**



## MANGO

- Origin** – South Asia
- Major Producing States** – Andhra Pradesh, Uttar Pradesh, Bihar, Karnataka, Tamil Nadu, West Bengal, Orissa & Maharashtra
- Latest Production** – 151.88 Lakh Tonnes

### Commercial mango varieties grown in different states

States	Varieties
<b>Andhra Pradesh</b>	Banganapalli, Suvarnarekha, Neelum and Totapuri
<b>Bihar</b>	Bombay Green, Chausa, Dashehari, Fazli, Gulabkhas, Kishen Bhog, Himsagar, Zardalu and Langra
<b>Gujarat</b>	Kesar, Alphonso, Rajapuri, Jamadar, Totapuri, Neelum, Dashehari and Langra
<b>Haryana</b>	Chausa, Dashehari, Langra and Fazli
<b>H.P.</b>	Chausa, Dashehari and Langra i
<b>Karnataka</b>	Alphonso, Totapuri, Banganapalli, Pairi, Neelum and Mulgoa
<b>Madhya Pradesh</b>	Alphonso, Bombay Green, Dashehari, Fazli, Langra and Neelum
<b>Maharashtra</b>	Alphonso, Kesar and Pairi
<b>Punjab</b>	Chausa, Dashehari and Malda
<b>Rajasthan</b>	Bombay Green, Chausa, Dashehari and Langra
<b>Tamil Nadu</b>	Alphonso, Totapuri, Banganapalli and Neelum
<b>Uttar Pradesh</b>	Bombay Green, Chausa, Dashehari and Langra
<b>West Bengal</b>	Fazli, Gulabkhas, Himsagar, Kishenbhog, langra and Bombay Green

### Mango hybrids and their characters

Hybrid	Important characters
<b>Mallika</b>	Regular-bearers, high TSS, good colour, uniform fruits, moderate keeping quality
<b>Amrapali</b>	Dwarf, regular-bearers, cluster bearing, small-sized fruits, good keeping quality
<b>Ratna</b>	Regular-bearer, free from spongy tissue and fibre
<b>Arka Puneet</b>	Regular-bearer, attractive skin colour, medium-sized, free from spongy tissue, good keeping quality, good sugar acid blend.



### Advanced Technology

#### Pre-cooling

- High density planting
- Forced air

#### Storage Conditions

Temperature	: 13 <sup>0</sup> C
Relative Humidity	: 85-90%
Storage period	: 2-3 weeks
Freezing point	: -1 <sup>0</sup> C

#### Sensitivity to

- Refrigeration, Freezing and Ethylene exposure

#### Growing Belts

The major mango producing belts are as follows :

- Jammu & Kashmir (Jammu, Kathwa, Udhampur), Punjab (Gurdaspur, Hoshiarpur, Ropar), Uttar Pradesh (Almora, Nainital, Dehradun)
- Uttar Pradesh (Saharanpur, Bulandshahar), Haryana (Karnal, Kurukshetra)
- Uttar Pradesh (Lucknow, Faizabad, Varanasi), Bihar and Madhya Pradesh (Rewa, Satna) and Chhattisgarh (Jabalpur, Raipur, Bastar).
- Maharashtra (Ratnagiri, Sindhudurg, Raigarh), Gujarat (Bhavnagar, Surat, Valsad, Junagarh, Mehsana, Khera), West Bengal and Bihar.
- Andhra Pradesh (Krishna, East & West Godavari, Khamman, Vijayanagar), Madhya Pradesh (Durg, Bilaspur, Bastar, Ramnandgaon, Rajgari) and Orissa (Dhankamal, Ganjam, Korapu, Puri).
- Kerala (Calicut, Cannanoore), Karnataka (Kolar, Bangalore (R&U), Tankur, Kagu and Tamil Nadu.

## HARVESTING SEASON OF MANGO

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH	LEAN		LEAN	PEAK	PEAK							
ARUNACHAL PRADESH												
ASSAM						PEAK	PEAK	PEAK	LEAN			
BIHAR						PEAK	PEAK	LEAN				
CHHATISHGARH			LEAN	PEAK	PEAK		LEAN					
DELHI												
GOA												
GUJARAT				LEAN	PEAK	LEAN	LEAN					
HARYANA						LEAN	PEAK	LEAN				
HIMACHAL PRADESH						LEAN	PEAK	LEAN				
JAMMU & KASHMIR							PEAK	LEAN				
JHARKHAND					PEAK		LEAN					
KARNATAKA				PEAK	PEAK	PEAK	LEAN					
KERALA	LEAN	PEAK	PEAK	LEAN	LEAN							LEAN
MADHYA PRADESH					PEAK	PEAK	LEAN					
MAHARASHTRA			LEAN	PEAK	PEAK	LEAN						
MANIPUR												
MEGHALAYA												
MIZORAM						LEAN	PEAK					
NAGALAND						LEAN	PEAK					
ORRISA				PEAK	PEAK	PEAK	LEAN					
PUNJAB						PEAK	LEAN					
RAJASTHAN						PEAK	LEAN					
SIKKIM						PEAK	PEAK					
TAMIL NADU				LEAN	PEAK	PEAK						
TRIPURA					LEAN	PEAK	LEAN					
UTTAR PRADESH				LEAN		PEAK						
UTTARAKHAND						PEAK	PEAK	PEAK				
WEST BENGAL					LEAN	PEAK	PEAK	LEAN				
ANDMAN & NICOBAR	PEAK	PEAK	PEAK	PEAK								
CHANDIGARH												
DADAR & NAGAR HAVELI				LEAN	PEAK	LEAN	LEAN					
DAMAN & DIU				LEAN	PEAK	LEAN	LEAN					
LAKSHADWEEP												
PONDICHERRY				LEAN	LEAN	PEAK	PEAK	LEAN				

■ PEAK SEASON     
 ■ LEAN SEASON     
 ■ ROUND THE YEAR

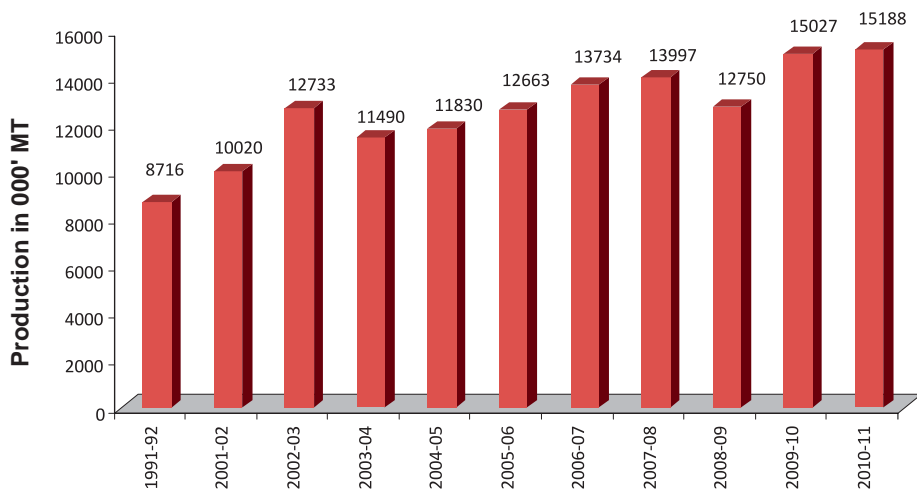
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF MANGO

YEAR	AREA (IN 000' HA)	%OF TOTAL FRT.AREA	PRODUCTION (IN 000'MT)	%OF TOTAL FRT.PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	1077.6	37.5	8715.6	30.4	8.1
2001-02	1575.8	39.3	10020.2	23.3	6.4
2002-03	1623.4	42.9	12733.2	28.2	7.8
2003-04	1906.7	40.8	11490.0	25.2	6.0
2004-05	1970.4	39.7	11829.7	24.0	6.0
2005-06	2080.7	39.1	12663.1	22.9	6.1
2006-07	2154.0	38.8	13734.0	23.1	6.4
2007-08	2201.0	37.6	13997.0	21.3	6.4
2008-09	2309.0	37.8	12750.0	18.6	5.5
2009-10	2312.3	36.5	15026.7	21.0	6.5
2010-11	2297.0	36.0	15188.0	20.3	6.6

### Production Trend of Mango



# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF MANGO

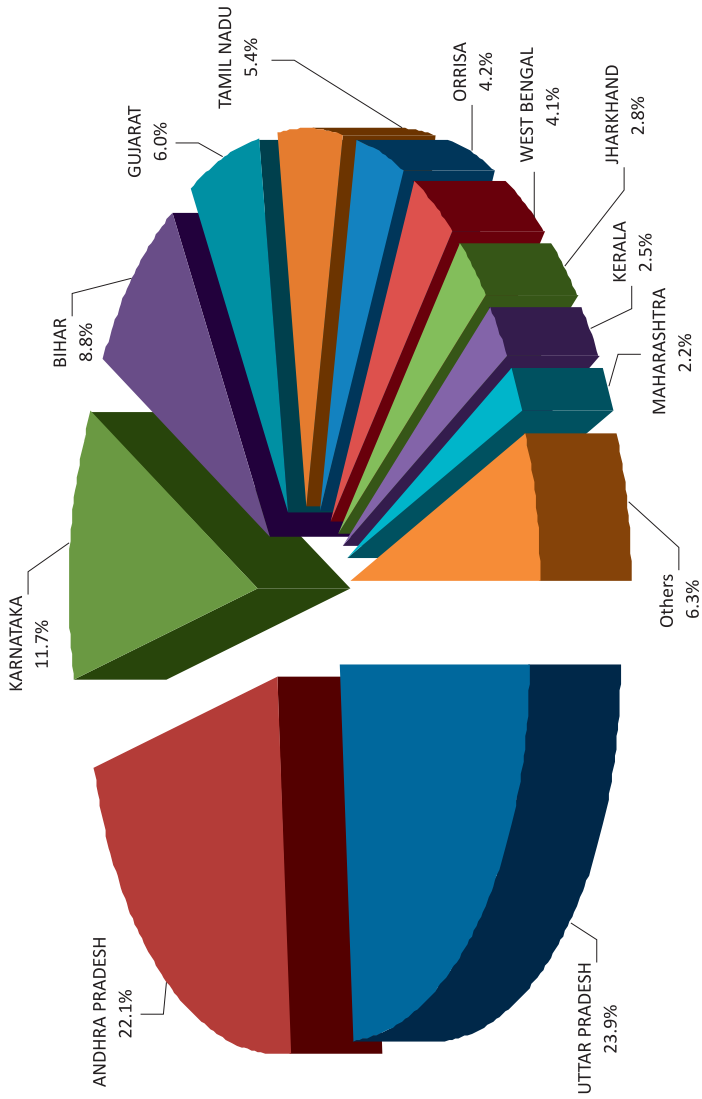
AREA IN '000' HA      PRODUCTION IN '000' MT      PRODUCTIVITY HA/MT

State	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
UTTAR PRADESH	271.2	3465.9	12.8	276.4	3588.0	13.0	267.2	3623.2	13.6
ANDHRA PRADESH	497.7	2522.0	5.1	480.4	4058.3	8.4	391.1	3363.4	8.6
KARNATAKA	141.3	1284.4	9.1	153.8	1694.0	11.0	161.6	1778.8	11.0
BIHAR	144.1	1329.8	9.2	146.0	995.9	6.8	147.0	1334.9	9.1
GUJARAT	115.7	299.8	2.6	121.5	856.7	7.0	130.1	911.3	7.0
TAMIL NADU	148.8	821.4	5.5	132.7	636.3	4.8	148.0	823.7	5.6
ORISSA	164.3	449.7	2.7	177.6	577.5	3.3	190.1	642.0	3.4
WEST BENGAL	86.0	548.9	6.4	88.1	578.0	6.6	89.5	620.2	6.9
JHARKHAND			In Others				38.9	427.9	11.0
KERALA	76.7	445.4	5.8	63.8	373.2	5.9	62.2	380.9	6.1
MAHARASHTRA	457.0	712.8	1.6	474.5	597.0	1.3	477.0	331.0	0.7
Others	206.2	869.5	4.2	197.425	1071.7	5.4	194.0	951.1	4.9
<b>TOTAL</b>	<b>2309.0</b>	<b>12749.8</b>	<b>5.5</b>	<b>2312.3</b>	<b>15026.7</b>	<b>6.5</b>	<b>2296.8</b>	<b>15188.4</b>	<b>6.6</b>





## Leading Mango Producing States (2010-11)



## MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF MANGO (DUSHEHARI) DURING THE PERIOD JANUARY TO DECEMBER, 2011

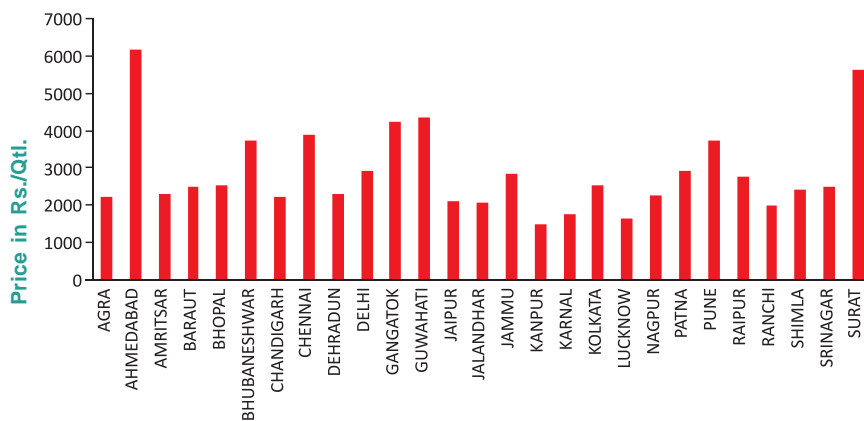


Average Wholesale Price in Rs./Qtl.  
Total Arrivals in M.T.

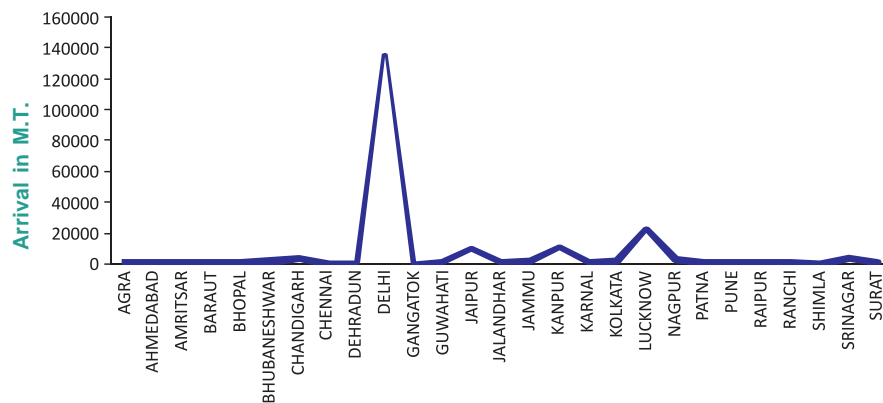
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
	Price/Arrival	Price/Arrival	Price/Arrival	Price/Arrival	Price/Arrival	Price/Arrival	Price/Arrival	Price/Arrival	Price/Arrival	Price/Arrival	Price/Arrival	Price/Arrival	Price/Arrival
AGRA	-	-	-	-	-	2093	336	2326	300	-	-	-	2209.5
AHMEDABAD	-	-	-	-	-	5780	305	5060	131	4917	71	-	6189.25
AMRITSAR	-	-	-	-	-	2405	494	2213	475	-	-	-	2309
BARAUT	-	-	-	-	-	2533	65	2458	129	-	-	-	2495.5
BHOPAL	-	-	-	-	-	2724	452	2358	766	2514	168	-	2532
BHUBANESHWAR	-	-	-	-	-	4025	27	3444	304	-	-	-	3734.5
CHANDIGARH	-	-	-	-	-	2214	910	1964	2887	2433	120	-	2203.67
CHENNAI	-	-	-	-	-	-	-	3881	30	-	-	-	3881
DEHRADUN	-	-	-	-	-	2756	292	1868	675	-	-	-	2312
DELHI	-	-	-	-	-	3219	25157	2977	51208	2674	53206	2812	2920.5
GANGATOK	-	-	-	-	-	4223	16	4187	23	4286	22	-	4232
GUWAHATI	-	-	-	-	-	4199	459	4546	457	-	-	-	4372.5
JAIPUR	-	-	-	-	-	3131	306	2024	3126	1726	5254	1560	2110.25
JALANDHAR	-	-	-	-	-	-	-	2023	305	2100	173	-	2061.5
JAMMU	-	-	-	-	-	2665	639	2729	1211	3170	197	-	2854.67
KANPUR	-	-	-	-	-	1425	1519	6534	1475	4144	-	-	1473
KARNAL	-	-	-	-	-	2012	227	1464	284	-	-	-	1738
KOLKATA	-	-	-	-	-	2244	576	2841	1680	-	-	-	2542.5
LUCKNOW	-	-	-	-	-	1901	13375	1350	8274	-	-	-	1625.5
NAGPUR	-	-	-	-	-	2583	550	2077	1120	2064	1280	-	2241.33
PATNA	-	-	-	-	-	2933	135	2862	570	-	-	-	2897.5
PUNE	-	-	-	-	-	2270	96	4336	641	4550	38	-	3718.67
RAIPUR	-	-	-	-	-	2643	2536	3124	-	-	-	-	2767.67
RANCHI	-	-	-	-	-	2041	202	1897	317	-	-	-	1969
SHIMLA	-	-	-	-	-	2404	87	2417	74	-	-	-	2410.5
SRINAGAR	-	-	-	-	-	2709	1470	2231	1970	-	-	-	2470
SURAT	-	-	-	-	-	9136	18	6400	361	4273	137	2722	5632.75
	-	-	-	-	-	-	-	-	91	-	-	-	607



## Annual Wholesale Average Price Trend of Mango (Dushehari) - 2011



## Annual Total Arrival Trend of Mango (Dushehari) - 2011



## MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF MANGO (SAFEDA) DURING THE PERIOD JANUARY TO DECEMBER, 2011

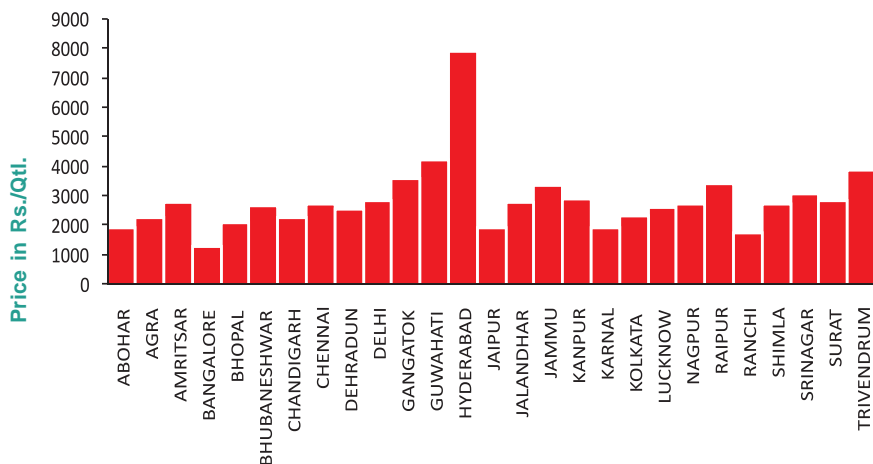


Average Wholesale Price in Rs./Qal.  
Total Arrivals in M.T.

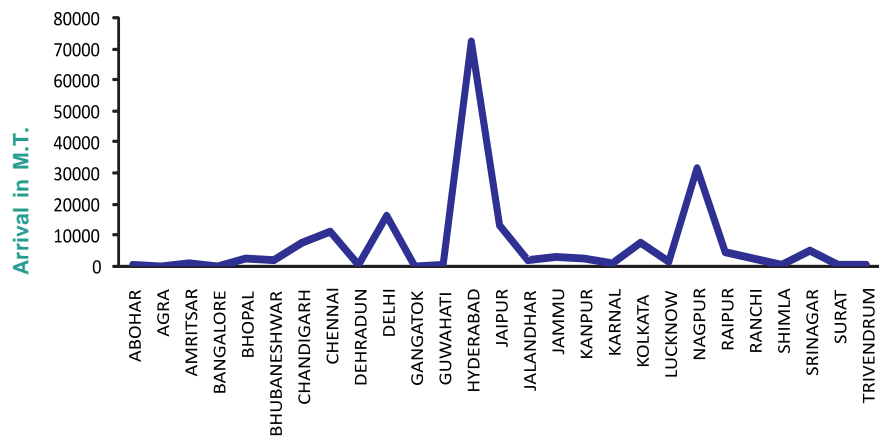
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual			
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival		
ABOCHAR	-	-	-	-	-	2067	21	1808	90	1838	101	1836	83	1957	66	-	-	-	-	-	-	-	-	-	-	1301.2	361	
AGRA	-	-	-	-	-	-	-	-	-	2221	184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2221	184	
AMRITSAR	-	-	-	-	-	3113	236	2754	335	2461	532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2776	1103	
BANGALORE	-	-	-	-	-	-	-	-	-	1609	-	967	-	-	-	-	-	-	-	-	-	-	-	-	-	1288	-	
BHOPAL	-	-	-	-	-	2996	279	1848	844	1912	799	1802	758	1650	113	-	-	-	-	-	-	-	-	-	-	2041.6	2793	
BHUBANESHWAR	-	-	-	-	-	-	-	2372	536	2108	1080	3365	485	-	-	-	-	-	-	-	-	-	-	-	-	2615	2101	
CHANDIGARH	-	-	-	-	-	2550	510	2070	5734	2088	1432	2160	151	-	-	-	-	-	-	-	-	-	-	-	-	2217	7827	
CHENNAI	-	-	-	-	-	-	-	2958	3050	1996	5370	3100	2725	-	-	-	-	-	-	-	-	-	-	-	-	2684.67	11145	
DEHRADUN	-	-	-	-	-	-	-	2344	97	2632	282	2527	88	-	-	-	-	-	-	-	-	-	-	-	-	2501	448	
DELHI	-	-	-	-	-	3510	9474	2235	6868	2347	-	3194	-	-	-	-	-	-	-	-	-	-	-	-	-	2821.5	16342	
GANGATOK	-	-	-	-	-	-	-	3860	34	3352	23	3471	10	-	-	-	-	-	-	-	-	-	-	-	-	3561	66	
GUWAHATI	-	-	-	-	-	-	-	-	-	-	-	3632	332	4750	113	-	-	-	-	-	-	-	-	-	-	4221	445	
HYDERABAD	-	-	-	-	-	-	-	14714	23959	3596	32297	5324	15880	-	-	-	-	-	-	-	-	-	-	-	-	7878	72136	
JAIPUR	-	-	-	-	-	3162	2125	1814	6023	1406	4785	1160	80	-	-	-	-	-	-	-	-	-	-	-	-	1855.5	13013	
JALANDHAR	-	-	-	-	-	2981	101	2196	658	2488	774	2740	314	3317	22	-	-	-	-	-	-	-	-	-	-	2744.6	1869	
JAMMU	-	-	-	-	-	4075	391	3279	1247	3146	1102	2840	279	-	-	-	-	-	-	-	-	-	-	-	-	3335	3019	
KANPUR	-	-	-	-	-	3600	146	2800	2031	2200	146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2866.67	2223	
KARNAL	-	-	-	-	-	-	-	2060	602	1765	439	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1912.5	1041	
KOLKATA	-	-	-	-	-	-	-	2373	5040	2185	2352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2279	7392	
LUCKNOW	-	-	-	-	-	-	-	3083	477	2358	933	2325	10	-	-	-	-	-	-	-	-	-	-	-	-	2588.67	1420	
NAGPUR	-	-	5175	47	3539	2860	1772	12430	1329	13990	1756	2460	-	-	-	-	-	-	-	-	-	-	-	-	-	2714.2	31557	
RAIPUR	-	-	-	6189	518	2794	1932	1798	1830	2750	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3382.75	4770	
RANCHI	-	-	-	-	-	-	-	2272	1246	1499	1095	1346	57	-	-	-	-	-	-	-	-	-	-	-	-	1705.67	2398	
SHIMLA	-	-	-	-	-	-	-	3010	92	2576	188	2581	18	-	-	-	-	-	-	-	-	-	-	-	-	2722.33	288	
SRINAGAR	-	-	-	3585	910	3458	2151	2754	1415	2417	749	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3053.5	5225	
SURAT	-	-	-	3664	18	2540	310	2254	411	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2819.33	739	
TRIVENDRUM	-	-	-	-	-	-	-	3563	76	2962	287	5094	56	-	-	-	-	-	-	-	-	-	-	-	-	-	3873	419



### Annual Wholesale Average Price Trend of Mango (Safeda) - 2011



### Annual Total Arrival Trend of Mango (Safeda) - 2011



## PAPAYA

<b>Origin</b>	– South Mexico and Costa Rica.
<b>Major Producing States</b>	– Karnataka, Gujarat, Orissa, West Bengal, Assam, Kerala Madhya Pradesh & Maharashtra
<b>Latest Production</b>	– 41.96 Lakh Tonnes
<b>Main Varieties</b>	– Honey Dew, Coorg Honey Dew, Washington, Pusa Delicious, Pusa Majesty, Pusa Dwarf, Pusa Giant Co. 1 to Co. 7, Surya, Pusa Delicious, Pusa Nanha, Pink Flesh Sweet, Pant 1 Sunrise Solo, Taiwan etc.
<b>Advanced Technology</b>	– High density planting
<b>Pre-cooling</b>	– Forced air
<b>Storage Conditions</b>	
Temperature	: 10° - 13°C
Relative Humidity	: 85-90%
Storage	: 1-3 weeks
Freezing point	: -2 to -1°C
<b>Sensibility to</b>	– Refrigeration and Ethylene

### Growing Belts

The major papaya producing belts are as follows :



- Andhra Pradesh (Cuddapah, Medak, Kurnool, Rangareddy)
- Gujarat (Kheda, Ahmedabad, Jamnagar) and Orissa
- Maharashtra (Sangli, Satara, Pune, Nasik, Sholapur, Nagpur, Amravati)
- Karnataka (Shimoga, Chitradurga, Mysore, Belgaum, Hassan)
- Madhya Pradesh (Dhar, Khandwa, Bilaspur, Ratlam, Guna)
- West Bengal (North 24 - Paraganas, Hoogly)
- Assam (Nagaon, Darrang, Karbi Anglong)

## HARVESTING SEASON OF PAPAYA

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH												
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATTISGARH												
DELHI												
GOA												
GUJARAT												
HARYANA												
HIMACHAL PRADESH												
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH												
MAHARASHTRA												
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORRISA												
PUNJAB												
RAJASTHAN												
SIKKIM												
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERRY												

PEAK SEASON
LEAN SEASON
ROUND THE YEAR

SOURCE : Director of Horticulture / Agriculture of respective State / UT's

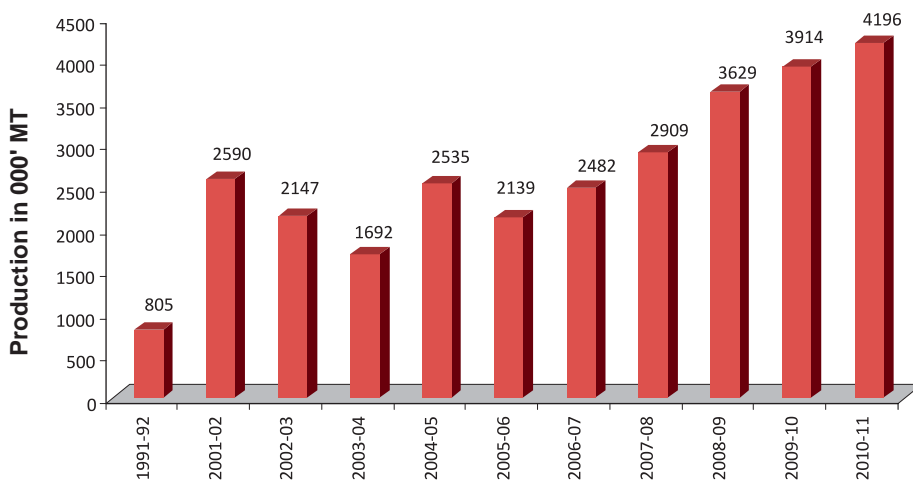




## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF PAPAYA

YEAR	AREA (IN 000' HA)	%OF TOTAL FRT.AREA	PRODUCTION (IN 000'MT)	%OF TOTAL FRT.PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	45.2	1.6	805.3	2.8	17.8
2001-02	73.7	1.8	2590.4	6.0	35.1
2002-03	68.0	1.8	2147.2	4.8	31.6
2003-04	58.2	1.2	1692.1	3.7	29.1
2004-05	73.8	1.5	2535.1	5.1	34.4
2005-06	67.8	1.3	2139.3	3.9	31.6
2006-07	72.0	1.3	2482.0	4.2	34.5
2007-08	83.0	1.4	2909.0	4.4	35.0
2008-09	98.0	1.6	3629.0	5.3	37.0
2009-10	95.7	1.5	3913.5	5.5	40.9
2010-11	106.0	1.7	4196.0	5.6	39.6

### Production Trend of Papaya

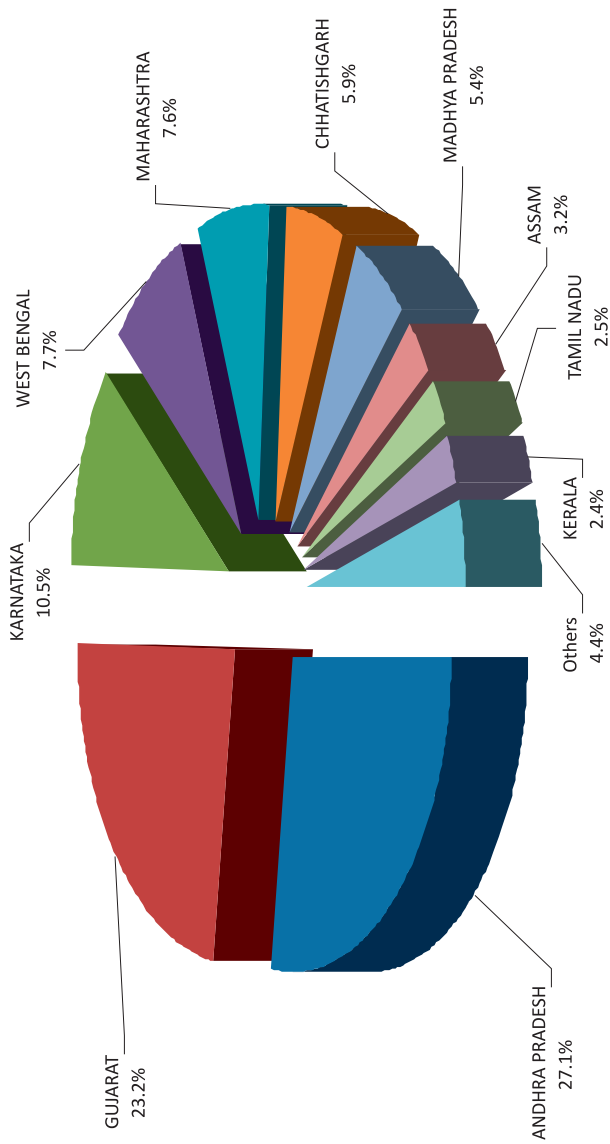


# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF PAPAYA

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
ANDHRA PRADESH	19.8	1581.2	80.0	18.8	1500.7	80.0	14.2	1138.4	80.0
GUJARAT	14.1	721.7	51.1	15.3	832.9	54.3	17.8	974.0	54.7
KARNATAKA	5.5	409.0	74.7	5.8	419.3	72.3	6.1	440.2	71.9
WEST BENGAL	10.8	314.3	29.0	11.1	321.8	29.1	11.1	324.2	29.1
MAHARASHTRA				In Others			9.0	319.0	35.4
CHHATISHGARH	8.1	148.1	18.4	9.3	211.7	22.7	10.6	247.1	23.3
MADHYA PRADESH	1.6	53.8	33.9	1.7	192.9	115.6	2.0	227.0	115.5
ASSAM	7.1	128.5	18.1	7.2	119.1	16.5	7.4	134.4	18.2
TAMIL NADU	0.4	72.3	182.2	0.4	73.9	180.2	0.6	105.0	164.1
KERALA	17.7	80.7	4.6	17.7	80.7	4.6	16.2	100.8	6.2
Others	12.7	119.2	9.4	8.4	160.5	19.2	10.5	185.4	17.6
<b>TOTAL</b>	<b>97.7</b>	<b>3628.9</b>	<b>37.1</b>	<b>95.7</b>	<b>3913.5</b>	<b>40.9</b>	<b>105.6</b>	<b>4195.5</b>	<b>39.7</b>



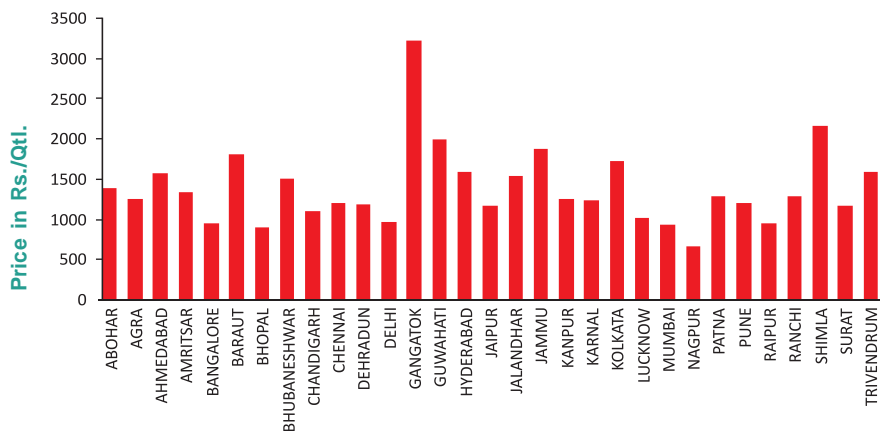
## Leading Papaya Producing States (2010-11)



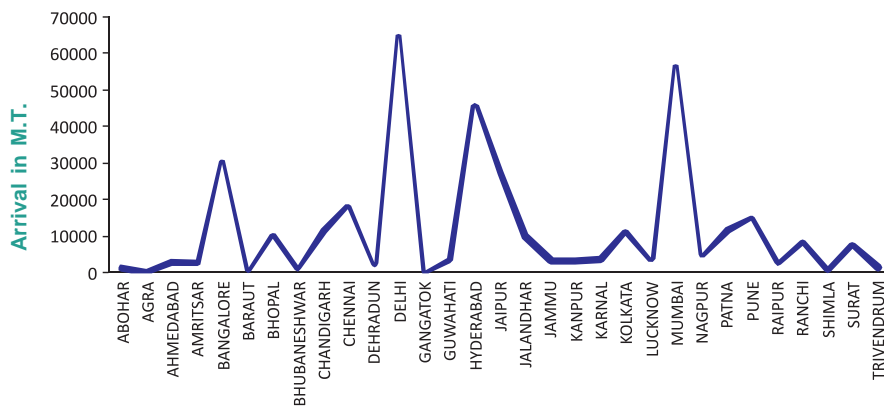




### Annual Wholesale Average Price Trend of Papaya - 2011



### Annual Total Arrival Trend of Papaya - 2011



## PINEAPPLE

<b>Origin</b>	– American continent, probably Brazil and Paraguay
<b>Major Producing States</b>	– West Bengal, Assam, Karnataka, Meghalaya, Manipur, Bihar & Kerala
<b>Latest Production</b>	– 14.15 Lakh Tonnes
<b>Main Varieties</b>	– Giant Kew, Queen, Kew, Mauritius, Charlotte Rothchild Jaldhup Desi and Lakhat, etc.
<b>Advanced Technology</b>	– High density planting
<b>Pre-cooling</b>	– Forced air
<b>Storage Conditions</b>	
Temperature	: 7-10°C
Relative Humidity	: 85-95%
Storage period	: 2-4 weeks (depending on cultivar & ripening stage)
Freezing point	: -1°C
<b>Treatment for Quality</b>	– Pre harvest application of ethephon (500-2000 ppm) at the starting or natural colouring, ensure good fruit quality and in less effective in hot weather.
<b>Sensibility to</b>	– Refrigeration, Ethylene and Odours.
<b>Growing Belts</b>	



The major pineapple producing belts, are as follows :

- Karnataka (Shimoga, North & South Kannada, Chickmagalore)
- Kerala (Enrakulam) and Nagaland (Kohima, Zunheboto)
- West Bengal (North Dinajpur, Darzeeling, Jalpaiguri)
- Assam (Nagaon, Kamrup, Karbi Anglong) and Bihar
- Manipur (Thoubal, Churchandpur, Imphal- East)
- Meghalya (Ri-Bhoi, East Khasi, Garo Hills)

## HARVESTING SEASON OF PINEAPPLE

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH												
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATISHGARH												
DELHI												
GOA												
GUJARAT												
HARYANA												
HIMACHAL PRADESH												
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH												
MAHARASHTRA												
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORRISA												
PUNJAB												
RAJASTHAN												
SIKKIM												
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERRY												

PEAK SEASON
LEAN SEASON
ROUND THE YEAR

SOURCE : Director of Horticulture / Agriculture of respective State / UT's

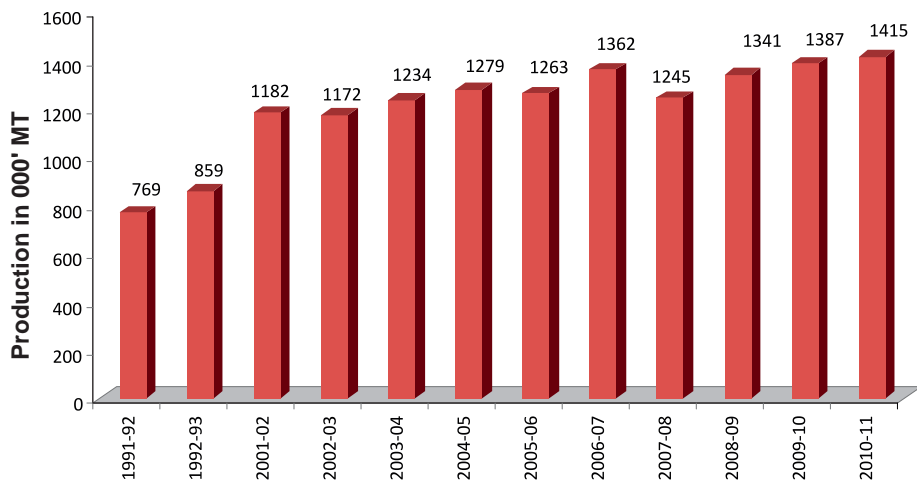




## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF PINEAPPLE

YEAR	AREA (IN 000' HA)	%OF TOTAL FRT. AREA	PRODUCTION (IN 000'MT)	%OF TOTAL FRT. PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	57.1	2.0	768.5	2.7	13.5
1992-93	59.4	1.9	859.0	2.6	14.5
2001-02	77.2	1.9	1182.1	2.7	15.3
2002-03	79.8	2.1	1171.7	2.6	14.7
2003-04	80.9	1.7	1234.2	2.7	15.3
2004-05	82.8	1.7	1278.9	2.6	15.4
2005-06	82.4	1.5	1262.6	2.3	15.3
2006-07	87.0	1.6	1362.0	2.3	15.7
2007-08	80.0	1.4	1245.0	1.9	15.6
2008-09	84.0	1.4	1341.0	2.0	16.0
2009-10	91.9	1.5	1386.8	1.9	15.1
2010-11	89.0	1.4	1415.0	1.9	15.9

### Production Trend of Pineapple



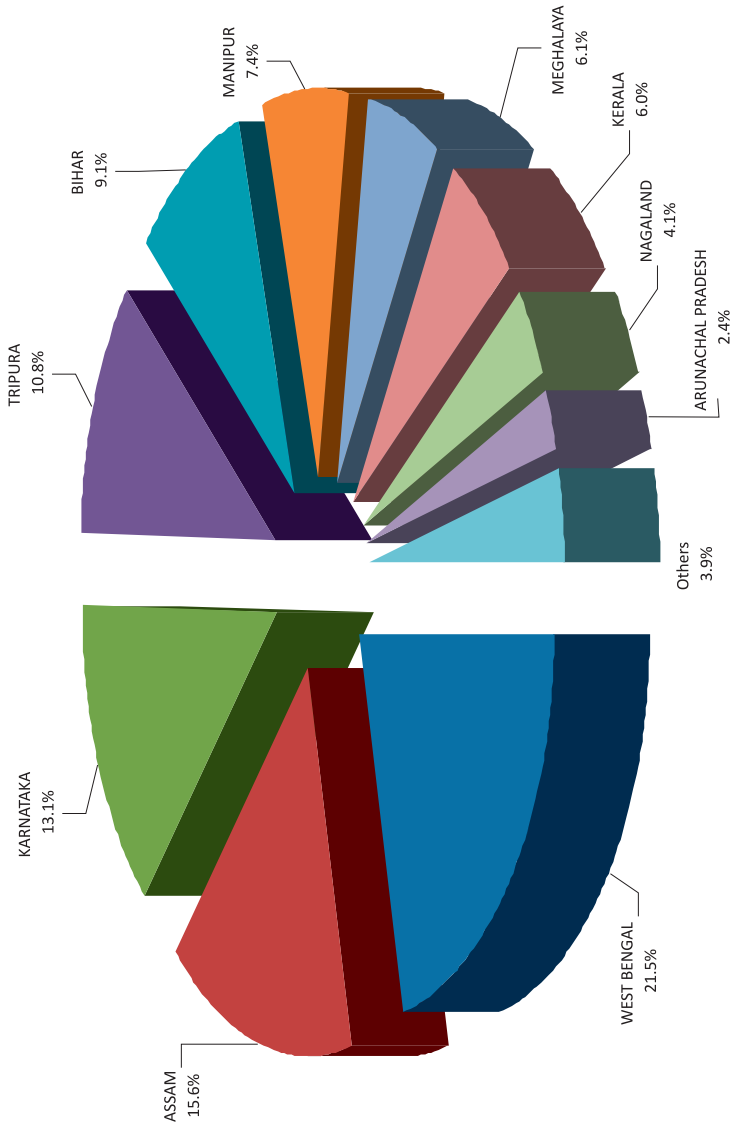
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF PINEAPPLE

AREA IN 000' HA      PRODUCTION IN 000' MT      PRODUCTIVITY HA/MT

State	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
WEST BENGAL	9.6	283.9	29.7	9.6	293.8	30.5	9.9	303.7	30.6
ASSAM	12.9	225.1	17.5	14.2	223.0	15.7	14.0	220.7	15.8
KARNATAKA	3.0	186.3	61.7	2.8	177.2	63.3	3.0	186.1	62.0
TRIPURA	6.3	101.2	16.1	6.8	117.5	17.3	6.8	153.3	22.6
BIHAR	4.7	119.5	25.5	4.7	125.0	26.4	4.9	129.4	26.5
MANIPUR	8.6	78.5	9.1	12.1	103.5	8.6	12.2	104.4	8.6
MEGHALAYA	10.8	106.8	9.9	10.8	106.8	9.9	9.7	86.0	8.9
KERALA	12.5	102.4	8.2	9.8	80.8	8.2	10.2	85.5	8.4
NAGALAND	3.7	57.5	15.5	8.0	80.1	10.0	3.7	57.5	15.5
ARUNACHAL PRADESH	9.3	37.8	4.1	10.9	34.4	3.2	10.9	34.4	3.2
Others	2.4	41.9	17.3	2.2	44.8	20.6	3.5	54.5	15.6
<b>TOTAL</b>	<b>83.7</b>	<b>1340.8</b>	<b>16.0</b>	<b>91.9</b>	<b>1386.8</b>	<b>15.1</b>	<b>88.7</b>	<b>1415.4</b>	<b>15.9</b>



## Leading Pineapple Producing States (2010-11)



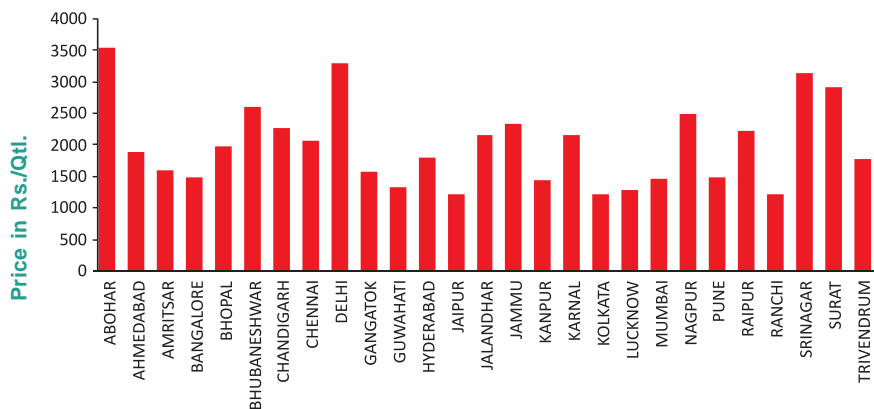
# MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF PINEAPPLE DURING THE PERIOD JANUARY TO DECEMBER, 2011

Average Wholesale Price in Rs./Qlt.  
Total Arrivals in M.T.

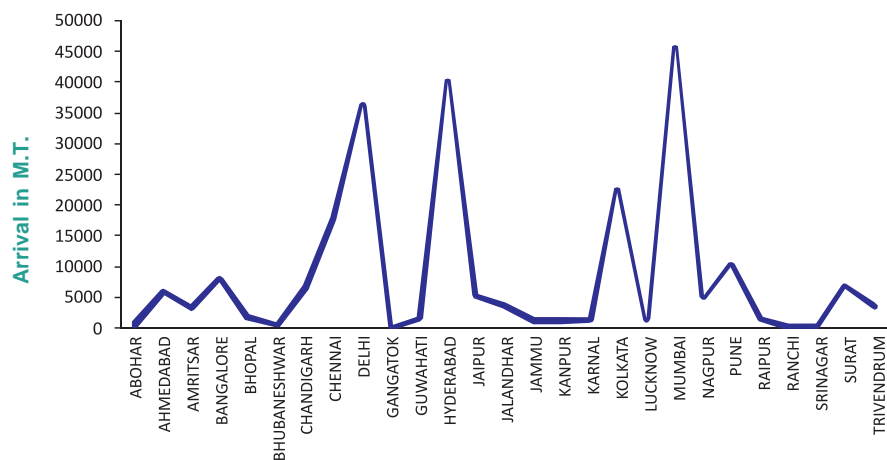
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual														
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival														
ABOCHAR	2704	33	2462	21	2776	34	3204	39	2566	40	3865	29	3624	43	3643	40	4225	31	4678	25	4329	39	4104	56	3550	430	
AHMEDABAD	1522	1241	1518	470	1321	407	1466	420	1558	237	1586	320	1764	486	2940	481	2338	419	2567	337	2265	472	2238	397	1886.92	587	
AMRITSAR	1473	238	1530	270	1730	247	1857	288	2046	156	1972	282	1485	238	1321	328	1400	381	1431	290	1465	276	1462	361	1605.17	3375	
BANGALORE	1288	563	1454	483	1400	570	1341	665	1631	720	1486	826	1069	994	1450	1114	1592	910	1827	330	1854	339	1519	328	1492.58	7940	
BHOPAL	1450	152	1911	251	1662	132	2109	88	2008	69	1838	91	2063	121	1908	169	2450	161	2119	233	1965	201	2127	161	1987.5	1829	
BHUBANESHWAR	2602	39	2614	34	2667	49	2723	41	2583	52	2329	50	2555	66	2538	75	2613	53	2742	40	2735	38	2613	44	2609.5	621	
CHANDIGARH	2208	387	2042	372	2148	452	2417	335	2291	425	2265	738	2531	1053	2223	638	2278	543	2306	685	2391	630	2062	468	2271	6742	
CHENNAI	2156	917	2157	926	2108	1037	1768	828	1640	1286	2046	1128	2104	1535	2105	3340	2103	2619	2172	1457	2274	1517	2276	1249	2075.75	17689	
DELHI	2633	1604	2309	2291	3110	3104	4100	2883	3940	4224	3419	3786	2946	3531	3258	3833	3419	3014	3463	3071	3421	2497	3046	2116	3307	38024	
GANGATOK	1818	12	1788	10	1774	19	1742	14	1780	12	1704	10	1616	10	1458	11	1347	10	1351	10	1344	10	1278	12	1563.33	140	
GUWAHATI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1330.5	1520
HYDERABAD	1538	2596	1819	2032	2113	6183	2914	2887	2152	1924	2923	5196	3232	5812	1307	2125	790	537	622	512	638	1550	1478	848	1791.17	38860	
JAIPUR	1139	294	1079	309	1138	404	1258	438	1284	684	1199	582	1143	430	1238	521	1300	391	1310	407	1247	478	1207	323	1211.83	5261	
JALANDHAR	2724	538	2043	374	2285	338	2103	367	2463	320	3063	280	2447	322	2113	251	1758	358	1559	327	1275	93	-	-	2166.64	3548	
JAMMU	2128	44	2459	66	2700	80	2986	64	2772	143	2114	132	2069	120	2098	118	2035	125	2091	99	2800	111	2108	89	2346.67	1191	
KANPUR	1083	89	1171	143	1345	79	1885	106	1978	134	1788	234	1378	137	1636	45	1083	191	1106	59	-	-	-	-	1446.3	1217	
KARNAL	2840	129	2543	137	2542	102	2725	26	2826	61	1978	137	1605	135	1639	118	1872	135	2022	119	1935	125	1819	135	2162.17	1360	
KOLKATA	1289	948	1210	727	1372	654	1441	1928	1421	729	1347	724	1086	4125	980	1900	1194	5718	1135	1771	1083	1752	1100	1170	1219.83	22146	
LUCKNOW	1080	99	-	-	-	-	-	-	-	-	1376	310	1358	199	1447	201	1343	185	1295	159	1133	174	1235	135	1283.38	1462	
MUMBAI	1588	3390	1330	3490	1462	6100	1511	3460	1467	3130	1488	4350	1292	2880	1758	3870	1486	2180	1408	2650	1482	4890	1396	4480	1468.17	45280	
MARGUR	2530	250	2528	490	2038	500	3066	300	2966	470	2458	580	2429	395	2842	310	2433	355	2346	538	2435	383	1673	482	2502.83	5033	
PUNE	1455	716	1597	566	1672	757	1684	604	1663	636	1607	565	1488	946	1550	2224	1338	700	1456	606	1183	631	1218	1103	1492.58	10073	
RAIPUR	2188	85	2322	83	2050	75	2252	64	2404	66	2472	161	1938	235	1900	183	2322	98	2476	78	2304	115	2062	137	2225	1450	
RANCHI	1180	22	1265	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1222.5	63	
SRINAGAR	2739	31	2820	22	2666	27	2829	21	3640	24	4204	25	3946	24	3245	24	3100	19	3108	20	2464	22	3236	25	3149.75	284	
SURAT	2832	315	3300	214	2969	314	2818	2105	3098	270	2969	394	2842	539	3254	431	2958	341	2763	475	2742	738	2700	538	2928.75	6664	
TRIVENDRUM	1748	239	2018	189	1883	293	1918	248	1661	327	1128	534	1353	392	1831	385	1881	225	1996	65	1891	377	1876	243	1773.87	3517	



### Annual Wholesale Average Price Trend of Pineapple - 2011



### Annual Total Arrival Trend of Pineapple - 2011



## POMEGRANATE

<b>Origin</b>	– Iran and adjoining countries
<b>Major Producing States</b>	– Maharashtra, Karnataka, Tamil Nadu, Rajasthan, Himachal Pradesh.
<b>Botanical Name</b>	– Punica Granatum
<b>Latest Production</b>	– 7.43 Lakh Tonnes
<b>Advanced Technology</b>	–
<b>Pre-cooling</b>	–
<b>Storage Conditions</b>	
Temperature	: 11°C
Relative Humidity	:
Storage period	:

### Growing Belts

The major pomegranate producing belts, are as follows :

- Maharashtra (Solapur, Sangli, Nashik, Ahmednagar, Pune, Dhule, Aurangabad, Satara, Osmanabad and Latur districts).
- Karnataka (Bijapur and Bagalkot)
- Gujarat
- Rajasthan
- Uttar Pradesh
- Andhra Pradesh
- Tamil Nadu
- Punjab & Haryana



## HARVESTING SEASON OF POMEGRANATE

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH												
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATISHGARH												
DELHI												
GOA												
GUJARAT												
HARYANA												
HIMACHAL PRADESH												
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH												
MAHARASHTRA												
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORRISA												
PUNJAB												
RAJASTHAN												
SIKKIM												
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERRY												

PEAK SEASON
LEAN SEASON
ROUND THE YEAR

SOURCE : Director of Horticulture / Agriculture of respective State / UT's

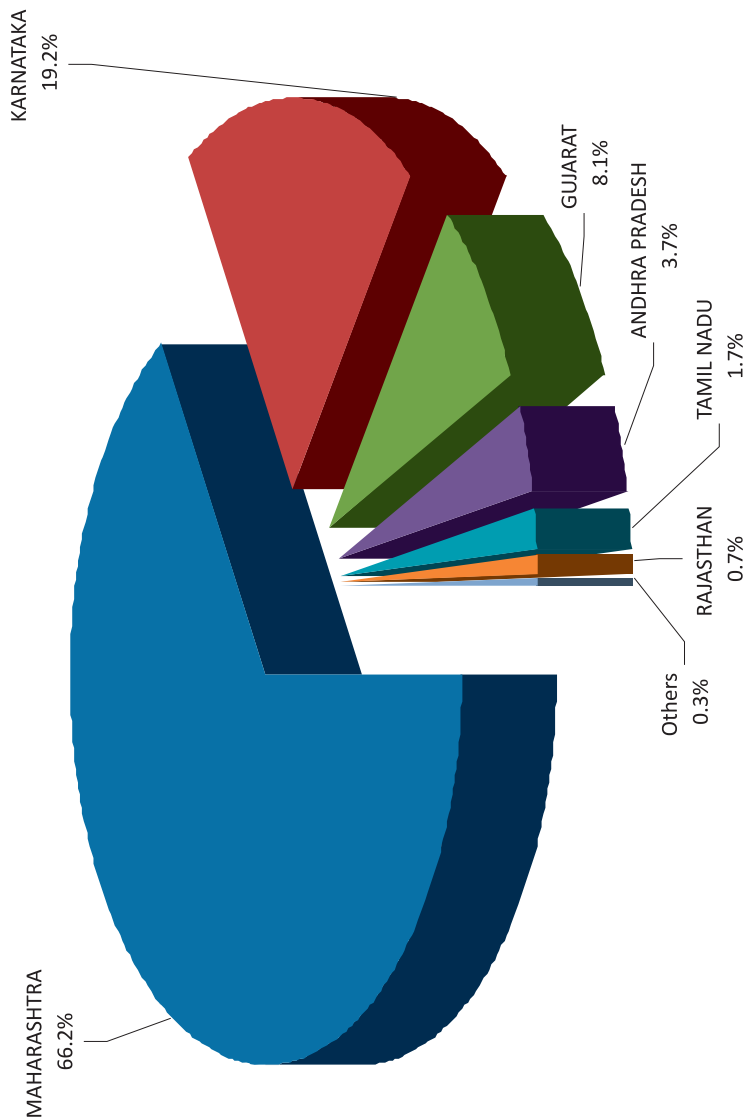
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF POMEGRANATE

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
MAHARASHTRA	82.0	550.0	6.7	98.9	555.5	5.6	82.0	492.0	6.0
KARNATAKA	14.3	138.1	9.7	13.2	138.5	10.5	13.6	142.6	10.5
GUJARAT	4.0	39.3	9.8	4.4	45.6	10.4	5.8	60.3	10.4
ANDHRA PRADESH	6.5	64.7	10.0	5.6	56.4	10.0	2.8	27.8	10.0
TAMIL NADU	0.4	10.0	25.0	0.4	17.5	39.4	0.5	12.7	27.6
RAJASTHAN	0.6	3.5	5.5	0.8	4.8	6.4	0.8	5.5	6.6
Others	1.4	1.6	1.1	1.66	2.1	1.2	1.8	2.2	1.2
<b>TOTAL</b>	<b>109.2</b>	<b>807.2</b>	<b>7.4</b>	<b>125.0</b>	<b>820.3</b>	<b>6.6</b>	<b>107.3</b>	<b>743.1</b>	<b>6.9</b>





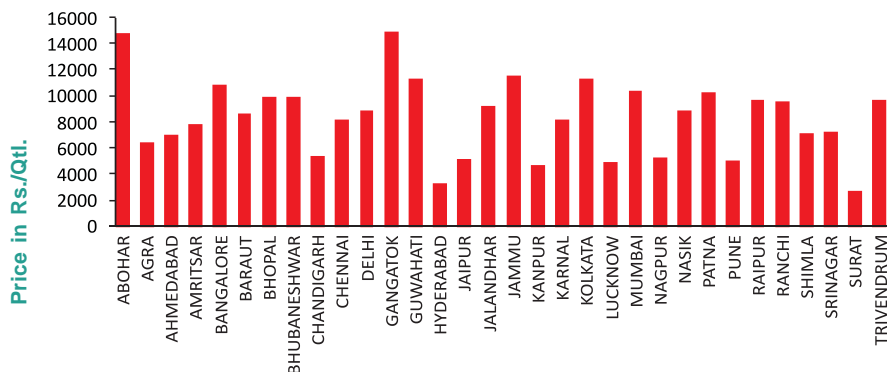
### Leading Pomegranate Producing States (2010-11)



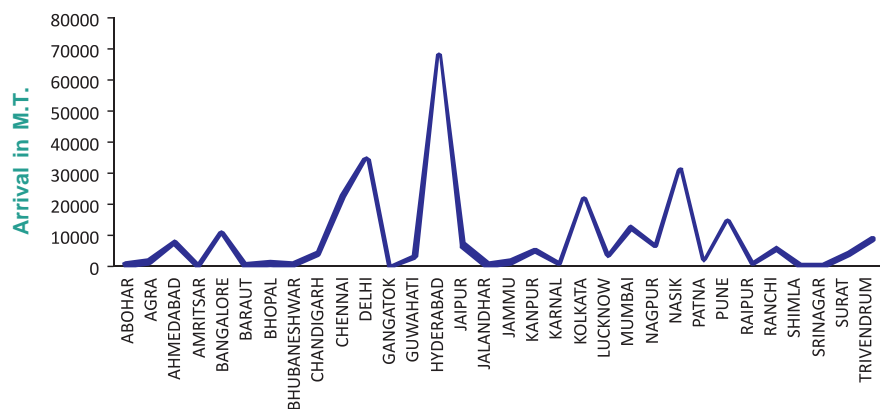




### Annual Wholesale Average Price Trend of Pomegranate - 2011



### Annual Total Arrival Trend of Pomegranate - 2011



## SAPOTA

- Origin** – Tropical America
- Major Producing States** – Karnataka, Gujarat, Andhra Pradesh, Maharashtra and Orissa.
- Latest Production** – 14.24 Lakh Tonnes

### States-wise cultivars of sapota

State	Cultivars
<b>Andhra Pradesh</b>	Pala, Kirtibarathi, Cricket Ball, Dwarapudi and Guthi Jonavalasa
<b>Gujarat</b>	Kalipatti, Bhuripatti, Piilipatti, Dhola Diwani, Jhumakhia and Cricket Ball
<b>Maharashtra</b>	Kalipatti, Cricket Ball, and Murraba
<b>Karnataka</b>	Kalipatti, Cricket Ball, Kirtibarathi, DHS 1 and DHS 2
<b>Tamil Nadu</b>	Guthi, Kirthibarathi, Pala, Co 1, Co 2 and PKM 1

- Advanced Technology** – Softwood grafting

- Pre-Cooling** – Forced Air

### Storage Conditions

Temperature : 15 - 20°C

Relative Humidity : 85-90%

Storage Period : 2-3 weeks



### Treatment for Quality

- Treating fruits with GA<sub>3</sub> at 75 ppm for 3 minutes and stored in 100 gauge polythene with 1.2% vents.

### Sensibility to

- Refrigeration, Ethylene & Odours

### Growing Belts

The major sapota producing belts, are as follows :

- Andhra Pradesh (East & West Godavari, Krishna, Guntur, Kurnool, Medak)
- Gujarat (Valsad, Surat, Kheda, Bhavnagar)
- Karnataka (Belgaum, Dharwar, Chickmagalore, Shimoga, Hassan)
- West Bengal (South 24 - Paraganas, Midnapur)
- Maharashtra and Orissa

## HARVESTING SEASON OF SAPOTA

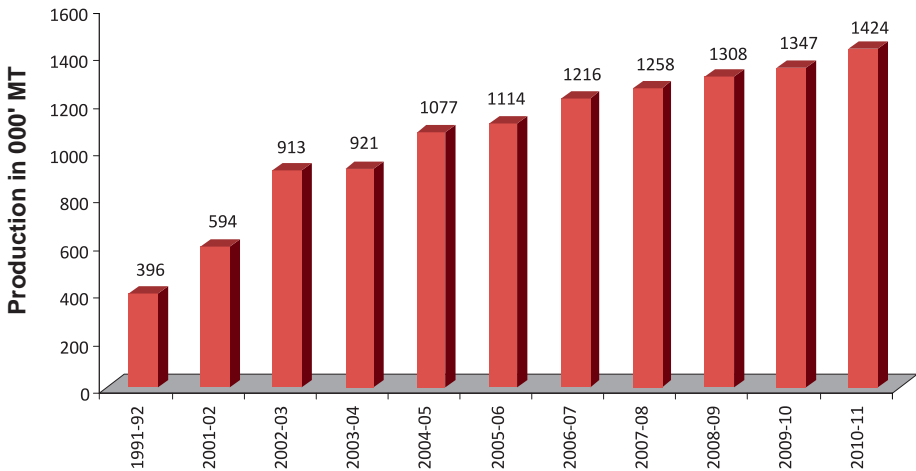
STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH		■	■	■	■	■				■	■	
ARUNACHAL PRADESH												
ASSAM												
BIHAR		■	■	■	■							
CHHATISHGARH			■	■	■	■						
DELHI												
GOA												
GUJARAT	■	■	■		■						■	■
HARYANA				■	■	■		■				
HIMACHAL PRADESH							■	■	■			
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA				■	■	■	■	■	■	■	■	
KERALA												
MADHYA PRADESH		■	■	■								
MAHARASHTRA	■	■	■	■	■	■	■	■	■	■	■	■
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORRISA			■	■	■	■	■					
PUNJAB												
RAJASTHAN							■	■				
SIKKIM				■	■	■	■					
TAMIL NADU				■					■			
TRIPURA				■	■	■	■	■	■	■	■	
UTTAR PRADESH												
UTTARAKHAND					■	■	■					
WEST BENGAL			■	■		■						
ANDMAN & NICOBAR					■	■				■	■	
CHANDIGARH												
DADAR & NAGAR HAVELI	■	■	■		■						■	■
DAMAN & DIU	■	■	■		■						■	■
LAKSHADWEEP												
PONDICHERRY		■	■	■	■	■	■					
<div> <div>■</div> PEAK SEASON           <div>■</div> LEAN SEASON           <div>■</div> ROUND THE YEAR         </div>												
SOURCE : Director of Horticulture / Agriculture of respective State / UT's												



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF SAPOTA

YEAR	AREA (IN 000' HA)	%OF TOTAL FRT. AREA	PRODUCTION (IN 000'MT)	%OF TOTAL FRT. PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	27.2	0.9	396.2	1.4	14.6
2001-02	52.0	1.3	593.5	1.4	11.4
2002-03	84.2	2.2	913.1	2.0	10.8
2003-04	120.6	2.6	921.3	2.0	7.6
2004-05	134.1	2.7	1076.5	2.2	8.0
2005-06	139.7	2.6	1114.0	2.0	8.0
2006-07	149.0	2.7	1216.0	2.0	8.2
2007-08	152.0	2.6	1258.0	1.9	8.3
2008-09	156.0	2.6	1308.0	1.9	8.4
2009-10	158.9	2.5	1346.8	1.9	8.5
2010-11	160.0	2.5	1424.0	1.9	8.9

### Production Trend of Sapota



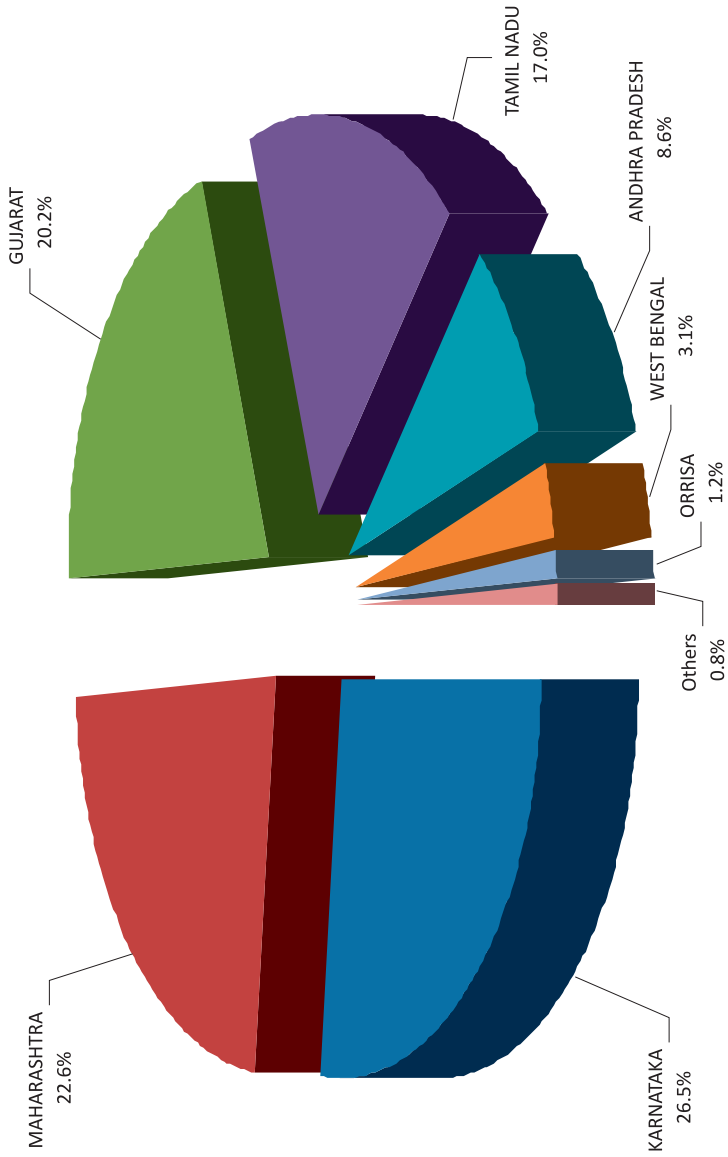
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF SAPOTA

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
KARNATAKA	27.5	297.8	10.8	29.3	360.0	12.3	30.8	377.8	12.3
MAHARASHTRA	65.4	298.7	4.6	69.1	298.0	4.3	70.0	322.0	4.6
GUJARAT	26.7	255.4	9.6	27.4	272.6	10.0	28.8	288.0	10.0
TAMIL NADU	7.4	184.0	25.0	6.9	173.5	25.0	9.0	242.3	27.0
ANDHRA PRADESH	20.6	205.9	10.0	17.1	171.4	10.0	12.2	122.1	10.0
WEST BENGAL	3.8	43.0	11.2	4.0	43.4	10.9	4.0	43.6	10.9
ORISSA	3.3	15.0	4.6	3.3	16.6	5.0	3.4	17.0	5.1
Others	1.5	8.1	5.4	1.7	11.1	6.5	1.9	11.3	6.0
<b>TOTAL</b>	<b>156.1</b>	<b>1307.8</b>	<b>8.4</b>	<b>158.9</b>	<b>1346.6</b>	<b>8.5</b>	<b>160.0</b>	<b>1424.1</b>	<b>8.9</b>





## Leading Sapota Producing States (2010-11)



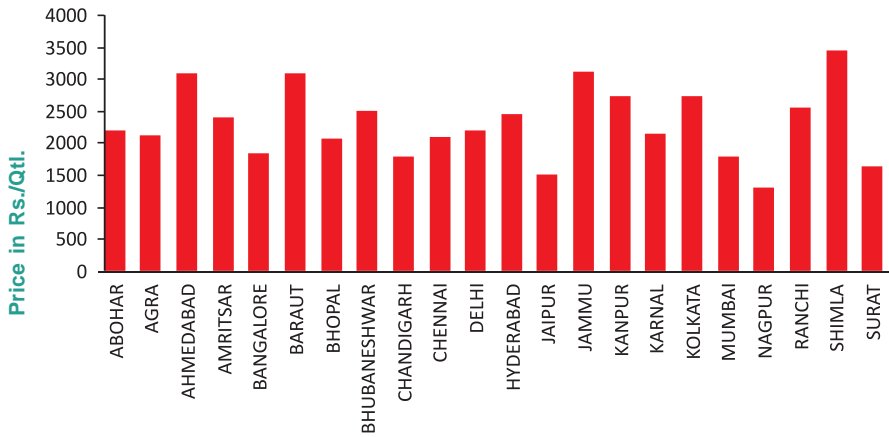
# MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF SAPOTA DURING THE PERIOD JANUARY TO DECEMBER, 2011

Average Wholesale Price in Rs./Otl.  
Total Arrivals in M.T.

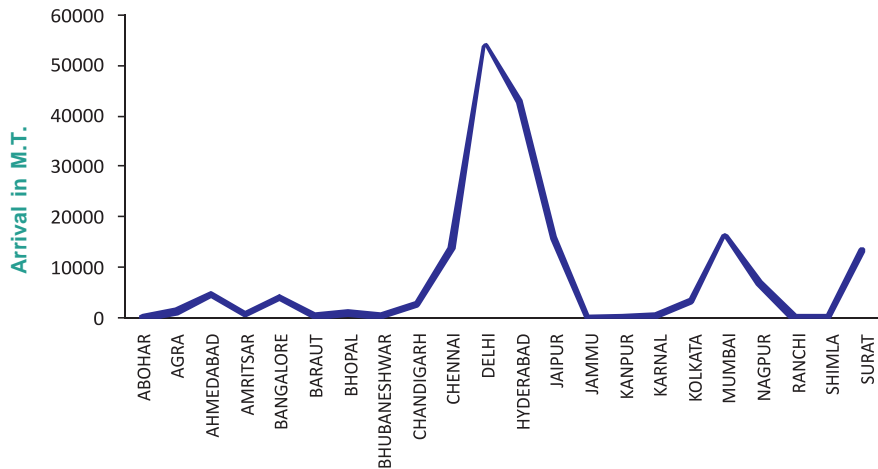
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual			
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival		
ABO HAR	-	-	-	-	2216	43	2243	39	1972	33	1888	35	-	-	-	-	-	-	-	-	-	-	-	2600	6	2183.8	156	
AGRA	2217	220	1823	187	1936	171	2076	90	2044	88	2116	72	2169	69	2128	38	2260	37	2444	21	2275	12	1927	279	2117.92	1284		
AHMEDABAD	2945	849	2439	344	2673	482	2935	388	2542	402	2920	311	2935	292	3304	222	3650	306	3776	264	3746	312	3552	422	3092.25	4594		
AMRITSAR	2650	251	2671	133	2219	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2004	287	2386	779		
BANGALORE	1488	272	1856	274	2354	282	2198	284	1677	434	1659	411	2079	357	1427	328	1581	250	1800	270	1833	292	1781	336	1836.08	3900		
BARAUT	4525	24	3559	33	3042	48	2509	51	1835	77	2076	50	-	-	-	-	-	-	-	-	-	-	3139	28	3083.57	311		
BHOPAL	2106	141	2372	129	2136	141	1936	155	1976	142	2208	137	-	-	-	-	-	-	-	-	-	-	1782	191	2070.86	1036		
BHUBANESHWAR	3220	34	2284	35	2398	40	2320	32	2367	32	2523	43	2541	23	-	-	-	-	-	-	-	2371	25	2207	41	2494.96	305	
CHANDIGARH	1532	465	1680	382	1781	406	1688	389	1942	333	-	-	-	-	-	-	-	-	-	-	-	1886	239	1967	413	1780.86	2637	
CHENNAI	2188	551	2200	532	2092	956	1570	1077	1800	1059	1792	983	2232	975	2229	2169	2212	1951	2363	1181	2200	1002	2198	969	2089.67	13415		
DELHI	2206	3717	1652	7121	1696	8364	1701	8050	1382	7205	1604	2442	1937	561	2171	745	3177	505	5094	143	2053	5008	1610	9810	2190.25	53671		
HYDERABAD	1720	2724	2681	1876	2142	6286	2469	2769	2384	6707	2581	9208	3076	7778	2343	1409	2056	84	2667	30	2371	784	2845	2957	2444.58	42612		
JAIPUR	1673	1272	1603	1679	1460	2315	1550	2149	1136	2938	1537	1103	-	-	-	-	-	-	-	-	-	1749	1336	1357	3086	1508.13	15878	
JAMMU	3315	39	3264	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2723	44	3100.67	116		
KANPUR	2675	34	2800	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2737.5	64	
KARNAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2135.5	338	
KOLKATA	2404	551	2817	506	2559	249	2263	803	2430	408	2525	504	3604	60	-	-	-	-	-	-	-	-	-	3111	160	2714.13	3241	
MUMBAI	1754	1242	1650	1093	1570	2686	1711	1692	2488	1448	1713	1184	2050	516	1738	1493	1654	993	1833	658	1600	1209	1504	2040	1772.08	16984		
NAGPUR	1236	860	1173	1090	1213	980	1109	550	1033	480	952	450	1288	200	1231	260	1640	422	1673	122	2032	575	1031	1070	1300.92	7059		
RANCHI	2321	75	2525	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2589	121	2545	214	
SHIMLA	3269	25	3127	23	3170	26	3242	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4114	7	3700	26	3437	129
SURAT	1780	965	1323	1385	1227	1505	1186	1335	1122	1811	1146	1030	1954	543	1708	702	2327	663	2804	677	1683	1092	1177	1370	1619.75	13078		



**Annual Wholesale Average Price Trend of Sapota - 2011**



**Annual Total Arrival Trend of Sapota - 2011**



## BRINJAL (EGG PLANTS)

- Origin** – India (Asia)
- Major Producing States** – Orissa, Bihar, Karnataka, West Bengal, Andhra Pradesh, Maharashtra & Uttar Pradesh
- Latest Production** – 118.96 Lakh Tonnes

### Improved varieties

Season (Bearing maturity)	Varieties
<b>Early</b>	ABH 1, ABH 2, Arka Navneet, Arka Neelkantha, Arka Nidhi, Azad Kranti, Mysore Green, NDBH 1, Pant Samrat, Punjab Chamkila, Punjab Sadabahar, Pusa Bhairav, Pusa Bindu, Pusa Hybrid 5, Pusa Hybrid 6, Pusa Hybrid 9, Pusa Upkar, Pusa Uttam and Pusa Purple Lomng (Extra early).
<b>Medium</b>	Annamalai, Arka Keshav, Arka Kusumakar, Arka Sheel, Arka Shirish, Azad B 1, BR 112, Co 1, Gujarat 6, Hisar Jamuni, Hisar Shyamal, Jamuni Gole, Junagarh Long, MDU 1, Pant Rituraj, PH 4, Punjab Barsati, Punjab Neelam, Pusa Anupam, Pusa Kranti, Pusa Purple Cluster and Vaishali
<b>Late</b>	Manjri Gota, Punjab Bahar

- Advanced Technology** – Use of Hybrid seeds, Drip Irrigation

### Storage Conditions

- Temperature : 8° - 12°C
- Relative Humidity : 90-95%
- Storage period : 1-2 weeks
- Highest Freezing point : -1°C



### **Treatment for Quality**

- Integrated Paste Management (IPM)

### **Sensibility to**

- Refrigeration, Ethylene & Odours

### **Growing Belts**

The major brinjal (egg plants) producing belts, are as follows :

- Andhra Pradesh (East & West Godavari, Krishna, Guntur, Nellore, Kurnool, Ananthapur, Sri Kakulam, Visakhapatnam)
- Karnataka (Belgaum, Dharwar, Bijapur, Hassan, Mysore)
- West Bengal (Hoogly, 24 - Paraganas, Burdwan) and Assam
- Tamil Nadu (Salem, Dindugal, Coimbatore)
- Maharashtra, Orissa, Uttar Pradesh, Gujarat and Bihar
- Rajasthan (Alwar, Jaipur, Kota, Tonk, Ajmer, Sriganganar) and Haryana

## HARVESTING SEASON OF BRINJAL

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH												
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATISHGARH												
DELHI												
GOA												
GUJARAT												
HARYANA												
HIMACHAL PRADESH												
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH												
MAHARASHTRA												
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORISSA												
PUNJAB												
RAJASTHAN												
SIKKIM												
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERY												

PEAK SEASON
LEAN SEASON
ROUND THE YEAR

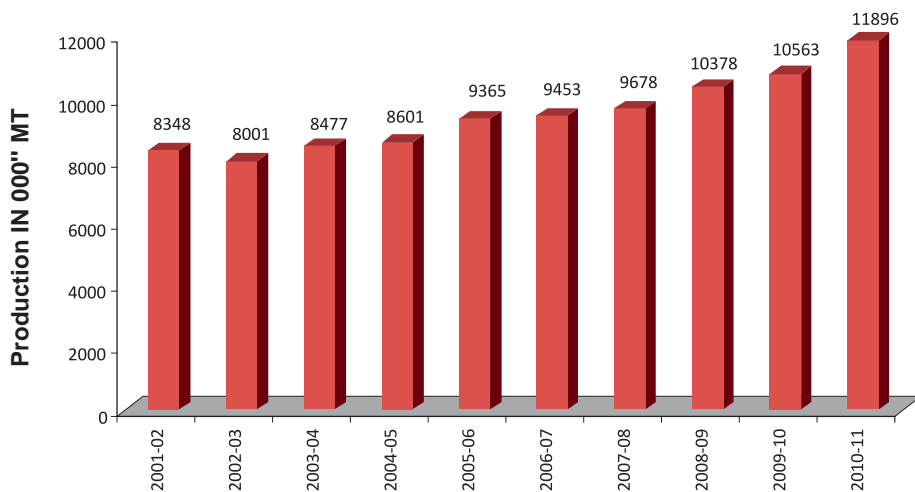
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF BRINJAL

YEAR	AREA (IN 000" HA)	%OF TOTAL VEG. AREA	PRODUCTION (IN 000"MT)	%OF TOTAL VEG. PRODUCTION	PRODUCTIVITY (IN MT/HA)
2001-02	502.4	8.2	8347.7	9.4	16.6
2002-03	507.3	8.3	8001.2	9.4	15.8
2003-04	516.4	8.2	8477.3	9.1	16.4
2004-05	526.5	7.8	8600.8	8.5	16.3
2005-06	559.7	8.3	9364.6	9.2	16.7
2006-07	568.0	7.5	9453.0	8.2	16.6
2007-08	561.0	7.1	9678.0	7.5	17.3
2008-09	600.0	7.5	10378.0	8.0	17.3
2009-10	612.0	7.7	10563.0	7.9	17.3
2010-11	680.0	8.0	11896.0	8.1	17.5

### Production Trend of Brinjal



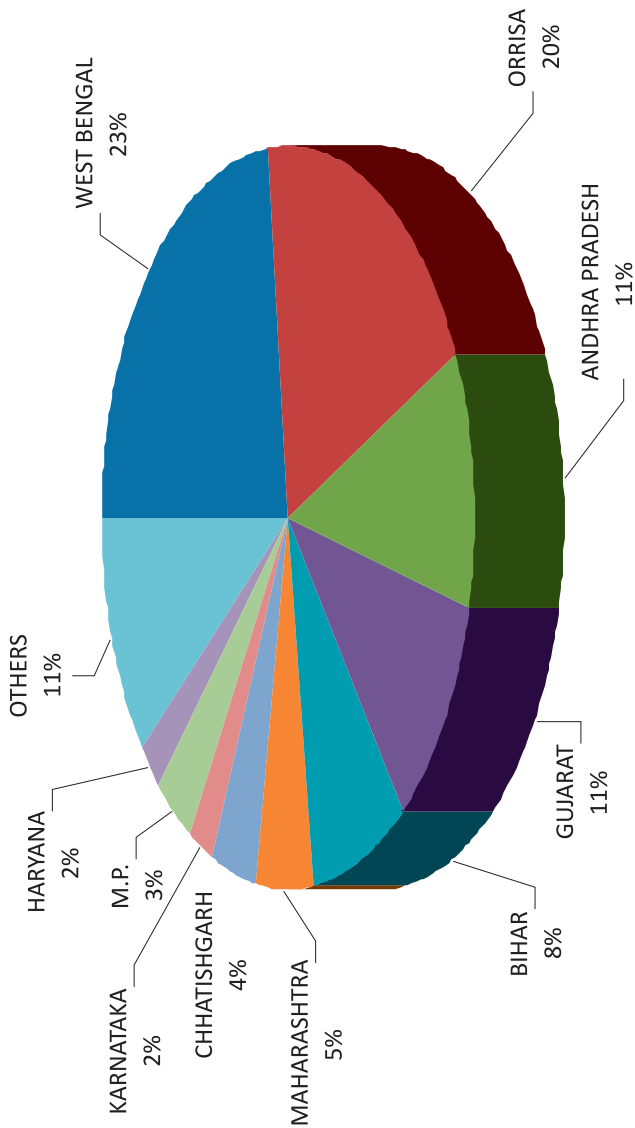
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF BRINJAL

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
WEST BENGAL	155.3	2758.6	17.8	156.8	2797.3	17.8	158.4	2870.6	18.1
ORISSA	130.0	1965.2	15.1	132.4	2135.2	16.1	133.2	2204.8	16.6
ANDHRA PRADESH	26.6	531.3	20.0	24.3	485.0	20.0	75.1	1502.4	20.0
GUJARAT	62.6	1046.3	16.7	65.8	1143.6	17.4	72.0	1236.3	17.2
BIHAR	55.1	1186.1	21.5	55.3	1198.6	21.7	55.7	1215.6	21.8
MAHARASHTRA	28.9	471.1	16.3	30.0	495.0	16.5	35.0	490.0	14.0
CHHATISHGARH	24.2	355.5	14.7	25.2	374.5	14.9	26.7	439.5	16.5
KARNATAKA	15.3	372.9	24.3	15.7	372.7	23.7	14.2	354.5	25.0
MADHYA PRADESH	21.4	321.3	15.0	20.5	246.0	12.0	23.4	281.0	12.0
HARYANA				INCLUDED IN OTHERS			14.6	255.2	17.4
JHARKHAND	22.7	453.9	20.0	22.7	3983	17.5	Jharkhand & Assam included in others		
ASSAM	15.5	275.9	17.8	15.9	253.0	16.0			
Others	42.7	639.7	15.0	47.9	663.7	13.9	71.7	1046.0	14.6
<b>TOTAL</b>	<b>600.3</b>	<b>10377.6</b>	<b>17.3</b>	<b>612.4</b>	<b>10563.0</b>	<b>17.2</b>	<b>680.0</b>	<b>11895.8</b>	<b>17.5</b>





Leading Brinjal Producing States (2010-11)



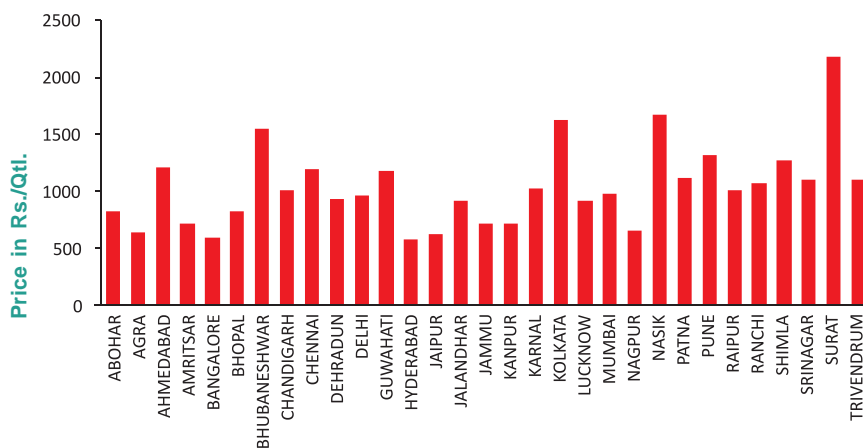
# MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF BRINJAL (ROUND) DURING THE PERIOD JANUARY TO DECEMBER, 2011

Average Wholesale Price in Rs./Qtl.  
Total Arrivals in M.T.

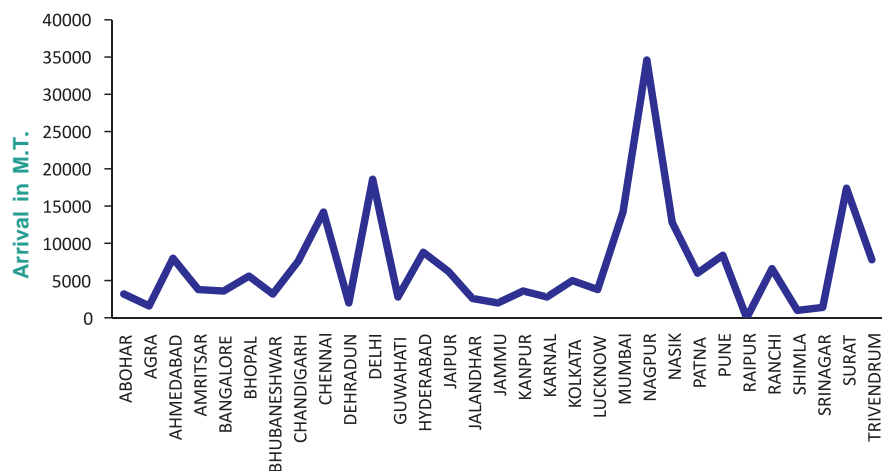
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival
ABOCHAR	1008 44	808 51	1008 101	800 175	700 262	639 407	700 485	748 430	717 444	861 405	875 294	925 161	816 3259
AGRA	871 85	900 70	821 98	429 88	764 96	650 107	601 113	524 107	498 133	465 140	500 206	553 311	631 1554
AHMEDABAD	1458 953	490 854	796 725	989 513	1119 465	1524 469	1298 638	1508 647	1661 608	1341 565	1212 731	973 890	1197 8058
AMRITSAR	855 292	735 329	833 353	689 351	457 193	660 320	944 312	666 348	823 351	712 309	559 281	527 367	708 3896
BANGALORE	596 284	420 337	500 298	423 250	628 288	671 305	780 381	343 572	420 566	234 600	256 617	283 358	588 3854
BHOPAL	1496 161	709 453	650 685	411 568	604 312	902 177	1158 175	928 186	1325 321	703 494	462 1221	367 777	810 5530
BHUBANESHWAR	1830 221	987 380	1377 295	1200 380	975 430	1462 183	2000 98	1710 143	1412 152	1892 125	1879 314	1277 383	1534 3094
CHANDIGARH	976 450	1153 381	948 475	862 594	1103 609	1040 710	1019 917	949 680	1067 582	1005 604	870 910	904 778	991 7480
CHENNAI	1477 1056	1191 1259	1224 1437	798 1151	1110 1322	1118 1207	1196 1346	1079 1765	1115 1412	1153 776	1350 780	1333 595	1179 14106
DEHRADUN	964 160	1085 78	1212 53	981 177	559 230	806 151	938 208	804 300	1150 223	1082 160	873 143	657 140	926 2023
DELHI	1168 279	1186 -	1065 -	896 160	902 1423	897 2016	1122 2850	892 2763	1207 2734	754 2571	583 1868	688 1744	947 18508
GUWAHATI	1015 248	773 239	735 288	849 175	804 235	938 202	1590 228	1738 175	1665 183	1867 220	1185 301	740 376	1158 2870
HYDERABAD	1077 1141	490 805	376 1315	284 859	400 747	431 976	827 1661	846 961	650 340	- -	- -	300 29	568 8834
JAIPUR	609 487	624 444	545 477	478 480	487 535	583 456	724 384	929 427	769 1021	637 416	458 489	466 485	609 6111
JALANDHAR	- -	- -	- -	632 132	613 439	735 500	957 381	866 313	1338 305	1359 433	873 143	- -	899 2946
JAMMU	1222 51	709 165	614 167	465 186	460 371	560 187	885 136	806 139	844 134	680 157	560 186	679 105	707 1984
KANPUR	976 401	719 348	703 286	460 286	667 108	806 1162	786 324	692 220	798 418	715 176	- -	- -	712 3831
KARNAL	1293 274	987 186	1385 131	807 198	988 195	895 281	1068 219	967 238	1321 215	884 308	848 291	650 319	1008 2855
KOLKATA	1658 275	- -	919 682	962 884	759 545	1358 362	1921 311	2659 314	1821 272	2508 229	1342 586	791 506	1609 4966
LUCKNOW	1082 271	937 303	880 329	808 275	1256 325	752 359	942 325	879 327	1117 306	941 314	573 354	617 452	900 3848
MUMBAI	1344 1042	602 768	826 905	611 731	510 820	871 896	1188 1314	1329 1524	1273 1818	1085 1947	1275 1612	772 1014	972 14191
NAGPUR	1057 2950	292 3120	475 3260	340 2710	516 3290	474 3220	788 2720	1001 2790	974 2400	799 2980	498 2840	436 2370	638 34520
NASIK	2173 1187	848 1920	1182 1620	903 1320	705 1885	1487 1529	2103 576	2028 460	2384 400	1388 570	2504 450	2206 760	1663 12677
PATNA	936 630	843 560	1001 475	653 760	715 485	593 450	1296 373	1441 180	1592 485	1823 505	1321 580	961 430	1106 5923
PUNE	2013 761	650 655	1250 719	1069 461	1123 523	1280 657	1343 749	1255 758	1313 932	1072 671	1753 755	1615 839	1311 8480
RAIPUR	1434 -	766 -	708 -	637 -	816 -	810 -	883 -	1038 -	1487 -	1275 -	826 -	- -	994 -
RANCHI	880 661	848 654	830 615	759 483	837 493	988 516	1249 501	1419 455	1268 532	1377 512	1376 497	858 611	1057 6540
SHIMLA	1050 34	- -	- -	- -	1029 125	1225 119	1245 148	1398 124	1404 113	1421 75	1338 88	1274 98	1265 925
SRINAGAR	1267 26	1207 194	1030 289	1105 225	1070 321	1125 73	1243 264	740 46	1000 20	- -	- -	- -	1087 1457
SURAT	2111 1553	724 2455	996 1370	616 1775	1446 1304	3285 929	3173 1483	2917 1352	3250 1196	2404 1155	3038 1205	1948 1668	2159 17445
TRIVENDRUM	1875 174	868 248	1041 286	883 227	996 270	956 278	1012 348	1041 4854	1091 309	1019 222	1189 207	1113 293	1091 7716



### Annual Wholesale Average Price Trend of Brinjal (Round) - 2011



### Annual Total Arrival Trend of Brinjal (Round) - 2011



## CABBAGE

- Origin** – Cyprus and around the Mediterranean coast
- Major Producing States** – Uttar Pradesh, Orissa, Bihar, Assam, West Bengal, Maharashtra & Karnataka
- Latest Production** – 79.49 Lakh Tonnes
- Varieties Commonly grown** – Copenhagen, Drumhead Savoy, Golden Acre, Pride of India, Pusa Drumhead, Pusa Mukta. Red Cabbage- its hybrids are Sri Ganesh Gol (MAHYCO), Nath Laxmi 401, Beejo Sheetal 32. Two hybrids- Green Express and Green Boy-are marketed by NSC. IARI's Regional Station Katrain, has developed a synthetic variety-Pusa Sambandh. Other than these September is an early and high-yielding variety, it is recommended for Nilgiri hills.
- Advanced Technology** – Use of Hybrid seeds
- Storage Conditions**
- |                   | Fresh (Air) | CA (3%O <sub>2</sub> +5%CO <sub>2</sub> ) |
|-------------------|-------------|---|
| Temperature       | : 0°C       | 0°C                                       |
| Relative humidity | : 98-100%   | 95-98%                                    |
| Storage period    | : 3-6 weeks | ---                                       |
| Freezing point    | : -1°C      | ---                                       |
- Treatment for Quality** – GA<sub>3</sub> (25 ppm)
- Sensibility to** – Refrigeration, Ethylene & Odours



## Growing Belts

The major cabbage producing belts are as follows :

- Uttranchal (Almora, Chamoli, Uttarkashi and Dehradun) and Himachal Pradesh
- Haryana (Hissar, Sonapat, Ambala, Karnal and Panipat), and Rajasthan (Jaipur, Alwar and Shri Ganganagar) and Assam
- Bihar / Jharkhand (Patna, Nalanda, West & East Champaran, Muzzafarpur, Vaishali, Bhagalpur, Darbhanga and Madhubani)
- Gujarat (Mehsana, Khera, Baroda and Gandhi Nagar) and Maharashtra (Nasik and Pune)
- Orissa (Baleswar, Balangir, Cuttack, Dhankanan, Ganjam, Koenjhar Koraput)
- Karnataka (Belgaum, Hassan, Belvey, Mysore and Dakshin Kannada) and Tamil Nadu (The Nilgiris)
- Western Area of Uttar Pradesh

## HARVESTING SEASON OF CABBAGE

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH	PEAK	LEAN									PEAK	LEAN
ARUNACHAL PRADESH												
ASSAM	PEAK	PEAK	LEAN								PEAK	PEAK
BIHAR	PEAK	PEAK	LEAN	LEAN								
CHHATISHGARH	PEAK	PEAK	LEAN				LEAN	PEAK	PEAK	PEAK	PEAK	PEAK
DELHI												
GOA												
GUJARAT	PEAK	PEAK	LEAN							LEAN	LEAN	PEAK
HARYANA	PEAK		LEAN							LEAN		
HIMACHAL PRADESH	LEAN	PEAK	LEAN					LEAN	PEAK	PEAK	PEAK	PEAK
JAMMU & KASHMIR	PEAK	PEAK	PEAK	PEAK	LEAN	LEAN				PEAK	PEAK	PEAK
JHARKHAND	LEAN	LEAN	LEAN	LEAN	LEAN	LEAN	LEAN	LEAN	LEAN	LEAN	PEAK	PEAK
KARNATAKA	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND
KERALA												
MADHYA PRADESH	PEAK	PEAK		LEAN	LEAN							
MAHARASHTRA	PEAK	PEAK	LEAN									LEAN
MANIPUR							PEAK	PEAK		LEAN	LEAN	
MEGHALAYA							LEAN	PEAK				
MIZORAM											LEAN	PEAK
NAGALAND	LEAN	PEAK										
ORRISA	PEAK	PEAK	PEAK	LEAN							LEAN	PEAK
PUNJAB	PEAK	PEAK		LEAN								
RAJASTHAN			LEAN									PEAK
SIKKIM	LEAN	LEAN	LEAN			PEAK	PEAK	PEAK	PEAK	PEAK	LEAN	LEAN
TAMIL NADU				LEAN	PEAK						LEAN	PEAK
TRIPURA												
UTTAR PRADESH	PEAK											LEAN
UTTARAKHAND	PEAK	PEAK	PEAK	PEAK	PEAK	PEAK	PEAK	PEAK	LEAN	PEAK	PEAK	PEAK
WEST BENGAL	PEAK	PEAK	LEAN						LEAN	LEAN	PEAK	PEAK
ANDMAN & NICOBAR	PEAK										PEAK	PEAK
CHANDIGARH												
DADAR & NAGAR HAVELI	PEAK	PEAK	LEAN							LEAN	LEAN	PEAK
DAMAN & DIU	PEAK	PEAK	LEAN							LEAN	LEAN	PEAK
LAKSHADWEEP												
PONDICHERY												

PEAK SEASON

LEAN SEASON

ROUND THE YEAR

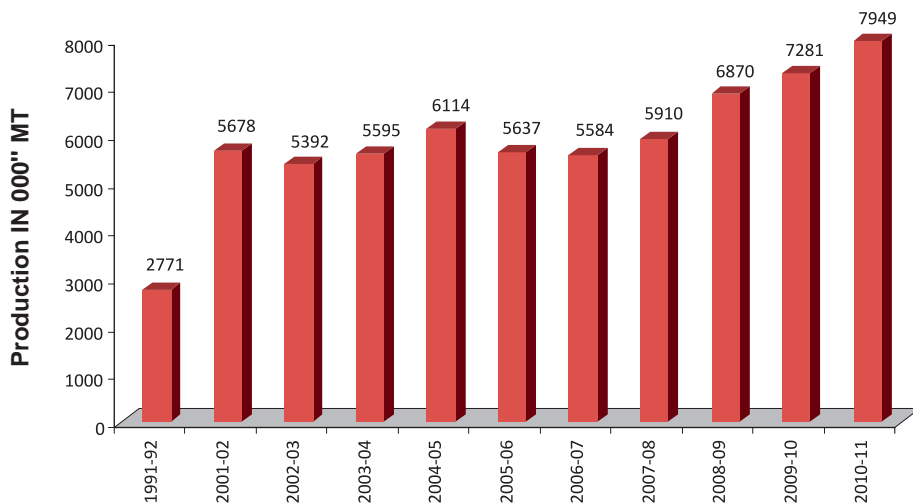
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF CABBAGE

YEAR	AREA (IN 000" HA)	%OF TOTAL VEG.AREA	PRODUCTION (IN 000"MT)	%OF TOTAL VEG.PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	177.3	3.2	2771.2	4.7	15.6
2001-02	258.1	4.2	5678.2	6.1	22.0
2002-03	233.8	3.8	5392.0	6.4	23.1
2003-04	255.1	4.0	5594.6	6.0	21.9
2004-05	287.8	4.3	6113.5	6.0	21.2
2005-06	253.5	3.5	5637.3	5.1	22.2
2006-07	249.0	3.3	5584.0	4.9	22.4
2007-08	266.0	3.4	5910.0	4.6	22.2
2008-09	310.0	3.9	6870.0	5.3	22.2
2009-10	331.0	4.1	7281.4	5.4	22.0
2010-11	369.0	4.3	7949.0	5.4	21.5

### Production Trend of Cabbage



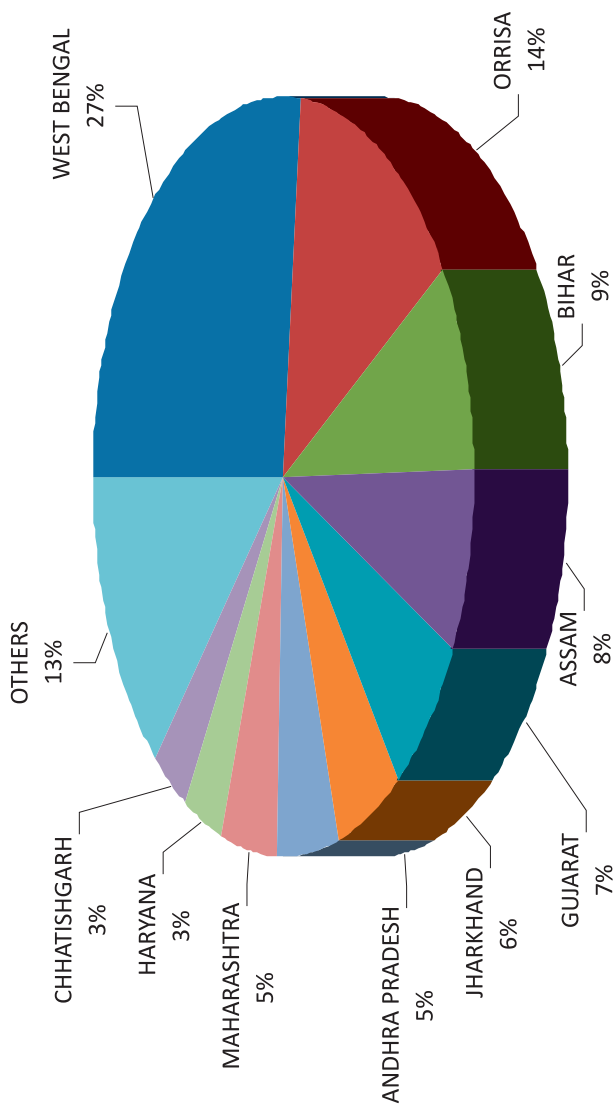
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF CABBAGE

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
WEST BENGAL	74.1	2042.7	27.6	74.3	2059.0	27.7	75.3	2087.8	27.7
ORRISA	34.8	966.2	27.8	35.8	999.9	27.9	41.2	1152.1	28.0
BIHAR	38.3	677.0	17.7	38.7	689.9	17.8	39.2	711.1	18.2
ASSAM	29.2	585.2	20.0	29.8	614.2	20.6	30.7	629.7	20.5
GUJARAT	23.0	404.6	17.6	25.6	473.8	18.5	28.2	553.6	19.6
JHARKHAND	15.4	246.0	16.0	26.8	429.3	16.0	27.0	451.7	16.7
ANDHRA PRADESH				INCLUDED IN OTHERS			28.5	427.5	15.0
MAHARASHTRA	15.0	381.0	25.4	17.0	442.0	26.0	18.0	360.0	20.0
CHHATISHGARH	13.6	213.7	15.7	13.7	227.8	16.7	14.7	257.7	17.5
HARYANA	11.2	214.2	19.2	12.2	218.3	17.8	13.8	262.4	19.0
KARNATAKA	8.6	178.7	20.8	8.9	176.2	19.8	INCLUDED IN OTHERS		
Others	47.2	960.3	20.4	48.2	951.0	19.7	52.3	1055.1	20.2
<b>TOTAL</b>	<b>310.2</b>	<b>6869.6</b>	<b>22.1</b>	<b>331.0</b>	<b>7281.4</b>	<b>22.0</b>	<b>368.8</b>	<b>7948.9</b>	<b>21.6</b>





Leading Cabbage Producing States (2010-11)



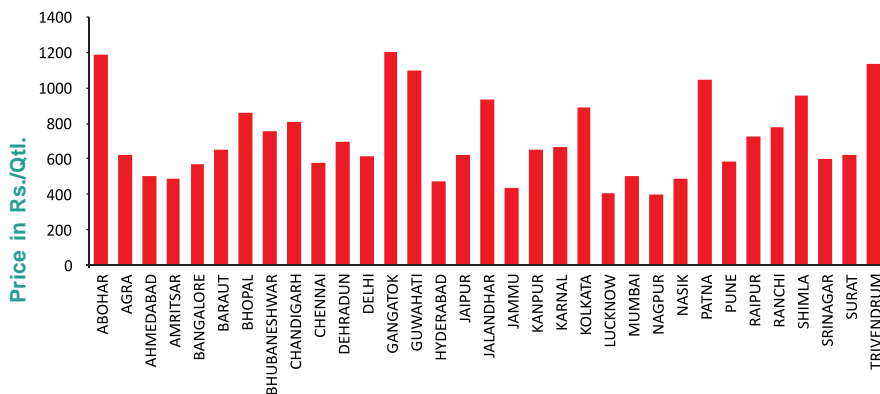
# MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF CABBAGE DURING THE PERIOD JANUARY TO DECEMBER, 2011

Average Wholesale Price in Rs./Qtl.  
Total Arrivals in M.T.

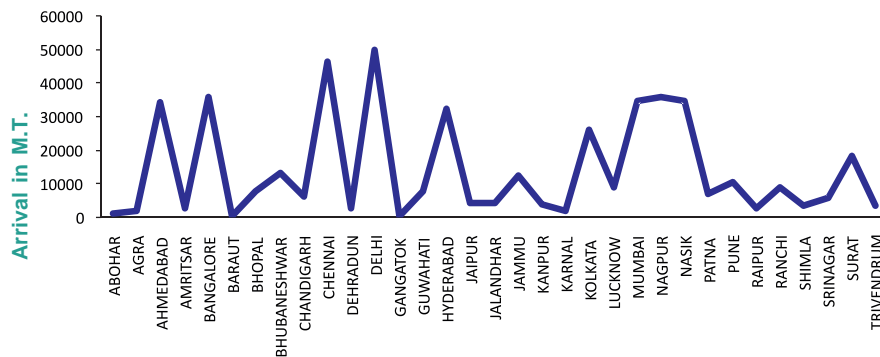
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival
ABOHR	-	-	-	-	12117	24 13496	26 12960	25 12435	23 10417	29 6761	60 7714	47 8417	56 10540
AGRA	4367 172	4400 126	4496 98	5438 70	5775 73	5972 72	6304 286	6719 355	6525 494	6917 547	6193 751	5404 389	5709 3433
AHMEDABAD	6384 7040	8783 703	8700 396	9477 158	11960 137	12120 250	12681 337	12350 16	-	-	-	-	10307 9037
AMRITSAR	-	3500 5	-	-	-	-	-	-	-	3920 600	3393 397	3632 679	3611 1681
BANGALORE	5135 1795	6113 1315	6846 1000	8105 990	8846 940	8861 454	9948 1085	10727 580	8000 150	7962 4360	7396 8430	9222 3150	7913 24229
BARAUT	5650 57	6689 32	7635 26	8691 22	10594 27	12228 27	13269 26	10158 48	7238 34	4950 79	4896 78	5735 49	8152 505
BHOPAL	-	-	7057 569	8266 145	9036 116	11440 29	11350 11	6800 40	-	6436 93	6744 615	6001 667	6083 880
BHUBANESHWAR	5179 287	6190 237	6665 293	7764 223	8013 157	7771 57	8081 52	-	4375 45	-	4225 1260	4434 803	5267 2935
CHANDIGARH	3806 9	4228 231	4877 335	8667 37	10316 185	-	2375 30	-	-	-	-	-	6812 3381
CHENNAI	7910 456	8239 452	11500 50	-	-	-	-	-	-	-	-	-	9216 568
DEHRADUN	4088 102	5598 51	-	-	-	-	-	-	-	-	5324 193	4842 251	4963 397
DELHI	4187 27197	4549 13523	5402 6362	5362 3668	6407 1360	5156 232	-	-	5056 83726	5345 108879	5057 118518	5362 95777	5188 459942
GANGATOK	4250 8	-	-	-	-	-	-	-	-	-	-	-	4250 8
GUWAHATI	-	-	-	-	-	-	-	-	-	7375 152	5898 393	5379 504	6217 1049
HYDERABAD	5040 5424	3833 4805	4637 10346	6134 4449	5712 4293	4569 5531	5380 6481	7656 3769	6167 203	-	-	-	5456 45001
JAIPUR	5544 155	5781 78	-	-	-	-	-	6155 120	-	-	4528 193	4081 1167	5218 1713
JALANDHAR	4440 941	4824 367	-	-	-	-	-	-	-	3135 405	2667 249	-	3767 1962
JAMMU	4038 366	4005 52	-	-	-	-	-	-	-	3135 405	2667 249	-	3767 1962
KANPUR	4105 331	4895 179	4963 146	5730 154	6650 16	-	-	5590 250	4656 2892	4432 1992	-	-	5110 5960
KOLKATA	5565 4632	6032 1819	6293 499	6787 943	6922 54	-	-	-	4860 1168	5657 7744	4986 10768	4321 10430	5716 38057
LUCKNOW	3925 685	4553 274	4841 157	5746 143	6324 101	-	825 40	4100 29	4510 611	4861 1864	4324 1464	4957 1013	4400 6381
MUMBAI	-	-	-	-	-	-	-	3579 40	6281 3485	7356 9340	5358 7260	5760 6720	5667 26845
NAGPUR	3196 920	3487 885	4673 335	8260 192	9602 197	8731 283	8610 3410	6333 1205	5638 1940	5506 1838	6096 940	5333 894	6300 12999
PATNA	3838 345	-	-	-	-	-	-	-	-	4778 1890	3759 3060	3669 1560	4011 6655
PUNE	6394 672	7422 234	1800 70	-	-	-	2300 55	-	-	7482 407	7050 610	6021 929	5494 2977
RAIPUR	5424 226	5735 55	5654 43	6386 24	6950 2	-	-	-	-	8700 24	8600 56	-	6778 430
RANCHI	1876 759	1953 670	1887 759	3244 520	3433 488	3470 207	-	2743 135	3738 555	3346 472	3050 533	3720 553	2951 5671
SRINAGAR	3188 640	3350 265	-	-	-	-	2300 8	3875 37	4288 1193	4950 2740	4352 1505	3525 1415	3729 7803
SURAT	3440 285	4023 190	4665 267	5180 414	-	-	-	-	-	3600 218	3250 329	3254 318	3945 2041
TRIVENDRUM	-	-	-	-	-	-	-	-	-	-	-	6985 160	6985 160



### Annual Wholesale Average Price Trend of Cabbage - 2011



### Annual Total Arrival Trend of Cabbage- 2011



## CAULIFLOWER

- Origin** – Cyprus and around the Mediterranean coast
- Major Producing States** – Bihar, Uttar Pradesh, Orissa, West Bengal, Assam, Haryana & Maharashtra
- Latest Production** – 67.45 Lakh Tonnes

### Recommended varieties

Group	Varieties
<b>September maturity</b>	Early Kunwari, Pant Gobhi 3, Pusa Early Synthetic
<b>October maturity</b>	Pusa Deepali, Pusa Katki
<b>November maturity</b>	Hisar 1, IIHR 101, IIHR 105, Improved Japanese, Panth Gobhi 2, PG 26, PG 35, Pusa Hybrid 2, Pusa Sharad
<b>December maturity</b>	Pusa Himjyoti, Pusa Shubhra, Pusa Synthetic Snowball-1, Pusa Snowball K-1 Snowball-16

- Advanced Technology** – Use of hybrid seeds

### Storage Conditions

	<u>Fresh</u>	<u>Frozen</u>
Temperature	: 0°C	-18°C
Relative Humidity	: 95-98%	Vapor-tight packing
Storage Period	: 2-4 weeks	1 year +
Highest Freezing point	: -0.8°C	–

- Treatment for Quality** – Maintain temperature 15°-20°C post curd formation

- Sensibility to** – Freezing and Odours



### Growing Belts

The major cauliflower producing belts, are as follows :

- Uttranchal (Nainital, Pithauragarh and Dehradun) and Himachal Pradesh (Shimla, Kullu, Sirmour, Solan).
- Punjab, Haryana, Rajasthan and Uttar Pradesh & Delhi (Rural Area)
- Bihar / Jharkhand (Santhal Pargana, Darbhanga, Purnia, Katihar, Madhubani, West Champaran, Muzaffarpur, Vaishali, Patna, Nalanda, Sitamarhi, Bhagalpur, Samstipur, Saharsa, Dhanbad).
- Maharashtra (Nasik, Nagpur, Kolhapur), Karnataka (Belgium) and Gujarat (Khera, Baroda, Ahmedabad, Mehsana).

## HARVESTING SEASON OF CAULIFLOWER

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH	PEAK	LEAN									PEAK	PEAK
ARUNACHAL PRADESH												
ASSAM	PEAK	PEAK	LEAN								PEAK	PEAK
BIHAR	PEAK	PEAK	LEAN	LEAN								PEAK
CHHATISHGARH	PEAK	PEAK	LEAN				LEAN	PEAK	PEAK	PEAK	PEAK	PEAK
DELHI												
GOA												
GUJARAT	PEAK	PEAK	LEAN							LEAN	LEAN	PEAK
HARYANA	PEAK		LEAN	LEAN								
HIMACHAL PRADESH	PEAK	PEAK	LEAN					PEAK	PEAK	PEAK		PEAK
JAMMU & KASHMIR	PEAK	PEAK	PEAK	PEAK	LEAN	LEAN				PEAK	PEAK	PEAK
JHARKHAND	LEAN	LEAN	LEAN	LEAN	LEAN	LEAN	LEAN	LEAN	LEAN	PEAK	PEAK	PEAK
KARNATAKA	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND	ROUND
KERALA												
MADHYA PRADESH	PEAK	PEAK		LEAN								
MAHARASHTRA												
MANIPUR	PEAK							LEAN	LEAN	PEAK	PEAK	PEAK
MEGHALAYA								LEAN		PEAK		
MIZORAM												
NAGALAND		LEAN	PEAK									
ORRISA	PEAK	PEAK	LEAN							LEAN	PEAK	PEAK
PUNJAB	PEAK	LEAN										PEAK
RAJASTHAN	PEAK		LEAN									
SIKKIM	PEAK	PEAK	PEAK			LEAN	LEAN	LEAN	LEAN	LEAN	PEAK	PEAK
TAMIL NADU	LEAN	PEAK									LEAN	PEAK
TRIPURA												
UTTAR PRADESH	PEAK											LEAN
UTTERAKHAND	PEAK	PEAK					PEAK	PEAK	LEAN	LEAN	PEAK	PEAK
WEST BENGAL	PEAK	LEAN								LEAN	LEAN	PEAK
ANDMAN & NICOBAR	PEAK										PEAK	PEAK
CHANDIGARH												
DADAR & NAGAR HAVELI	PEAK	PEAK	LEAN							LEAN	LEAN	PEAK
DAMAN & DIU	PEAK	PEAK	LEAN							LEAN	LEAN	PEAK
LAKSHADWEEP												
PONDICHERRY												

PEAK SEASON

LEAN SEASON

ROUND THE YEAR

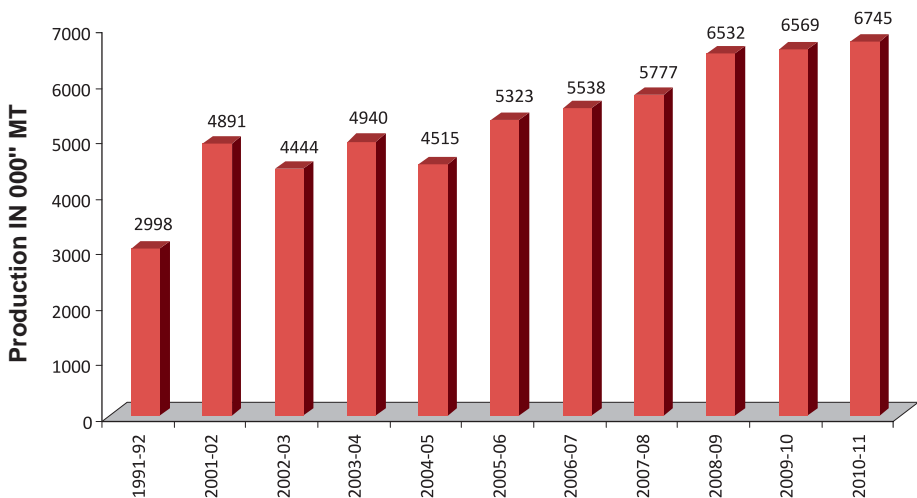
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF CAULIFLOWER

YEAR	AREA (IN 000" HA)	%OF TOTAL VEG.AREA	PRODUCTION (IN 000"MT)	%OF TOTAL VEG.PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	202.8	3.6	2998.1	5.1	14.8
2001-02	269.9	4.4	4890.5	5.2	18.1
2002-03	254.6	4.2	4444.1	5.2	17.5
2003-04	267.9	4.2	4940.2	5.3	18.4
2004-05	238.5	3.5	4514.8	4.5	18.9
2005-06	288.6	4.0	5323.1	4.8	18.4
2006-07	302.0	4.0	5538.0	4.8	18.3
2007-08	312.0	4.0	5777.0	4.5	18.5
2008-09	349.0	4.4	6532.0	5.1	18.7
2009-10	347.9	4.4	6569.0	4.9	18.9
2010-11	369.0	4.3	6745.0	4.6	18.3

### Production Trend of Cauliflower



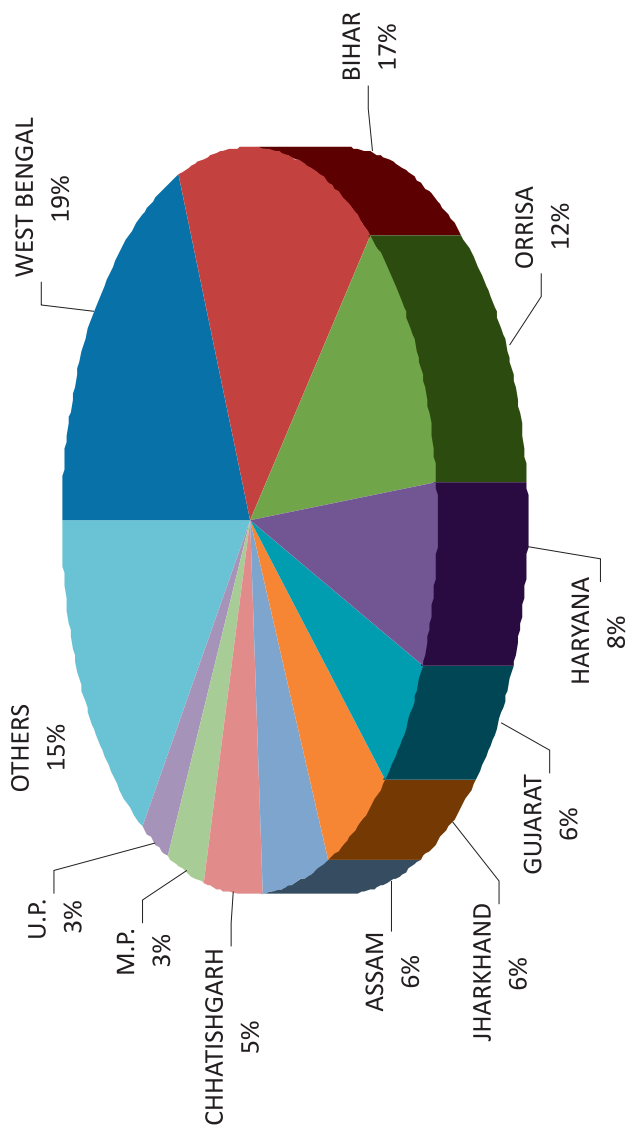
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF CAULIFLOWER

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
WEST BENGAL	68.8	1743.8	25.4	69.2	1754.1	25.4	70.0	1777.2	25.4
BIHAR 61.0	1043.8	17.1	62.2	1080.1	17.4	62.6	1118.7	17.9	
ORRISA	46.1	663.5	14.4	46.5	675.4	14.5	45.1	677.3	15.0
HARYANA	25.9	500.3	19.3	25.7	487.7	19.0	30.3	531.9	17.6
GUJARAT	18.5	321.1	17.4	19.8	356.7	18.0	21.1	387.4	18.4
JHARKHAND	27.3	436.9	16.0	20.6	329.8	16.0	22.2	355.4	16.0
ASSAM	19.8	282.9	14.3	20.5	351.3	17.2	20.9	328.8	15.7
CHHATISHGARH	16.1	241.4	15.0	16.1	268.9	16.7	18.4	306.0	16.6
MAHARASHTRA	13.0	328.9	25.3	10.1	158.6	15.7	INCLUDED IN OTHERS		
M.P.	INCLUDED IN OTHERS				12.2	195.9	16.0		
U.P.	INCLUDED IN OTHERS				9.3	188.5	20.3		
Others	52.5	969.1	18.5	57.2	1106.5	19.3	56.6	877.8	15.5
<b>TOTAL</b>	<b>348.9</b>	<b>6531.9</b>	<b>18.7</b>	<b>347.9</b>	<b>6569.0</b>	<b>18.9</b>	<b>368.7</b>	<b>6744.9</b>	<b>18.3</b>





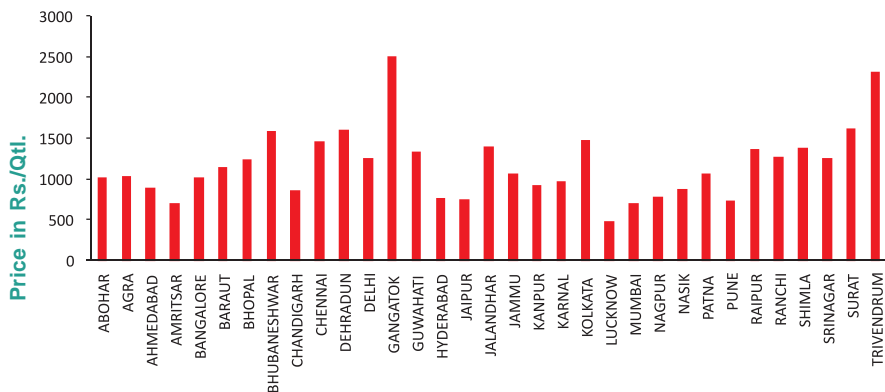
Leading Cauliflower Producing States (2010-11)



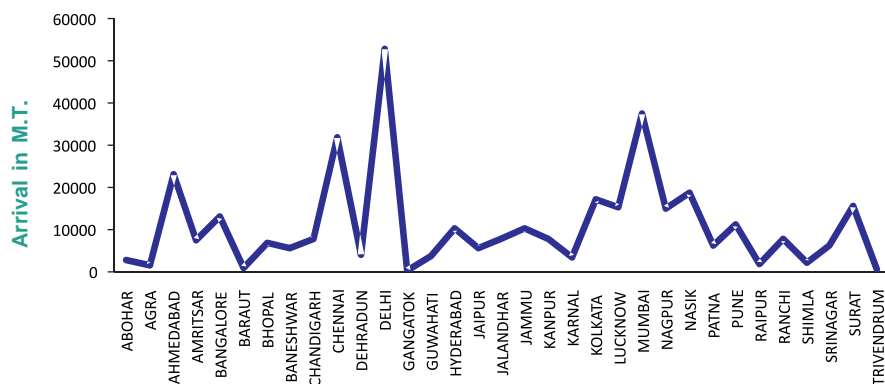




### Annual Wholesale Average Price Trend of Cauliflower - 2011



### Annual Total Arrival Trend of Cauliflower - 2011



## OKRA

### Origin

- Africa

### Major Producing States

- Uttar Pradesh, Bihar, Orissa, West Bengal, Andhra Pradesh, Karnataka and Assam

### Latest Production

- 57.84 Lakh Tonnes

### Important commercial

Arka Abhay, Arka Anamika, Azad Kranti, Co 1, MDU1, Gujarat Bhindi 1, Harbhajan Bhindi, Hisar Unnat, Parbhani Kranti, Perkins Long Green, Punjaab 7, Punjab 8, Punjab Padmini, Pusa A 4, Pusa Makhmali, Pusa Sawani, Red Bhindi, TN Hybrid 8 and Varsha Uphar

Besides, a number of hybride from many private sector agencies/seed companies are marketed. Of these, Varsha, Vijay, Adhunik, Panchali, Hybrid No. 6,7 and 8, Nath Sobha, Supriya, Sungro 35, Aroh 1,-2,-3,-9 and are more popular.

### Advanced Technology

- Use of hybrid seeds

### Storage Conditions

		<u>Fresh</u>	<u>Frozen</u>
Temperature	:	7 <sup>o</sup> -10 <sup>o</sup> C	-18 <sup>o</sup> C to -24 <sup>o</sup> C
Relative Humidity	:	90-95%	–
Storage Period	:	7-10 days	5 months - 1 year
Freezing point	:	-1 <sup>o</sup> C	–

### Treatment for Quality

- Integrated Paste Management (IPM)

### Sensibility to

- Freezing



### Growing belts

- Andhra Pradesh (Guntur, Prakasham, Kurnool, Rangareddy),
- Karnataka (Dharwad, Gulberga, South Canara, Belgaum, Shimoga)
- Madhya Pradesh (Bilaspur, Raipur, Durg, Rajnandgaon)
- West Bengal (Hoogly, Burdwan) and Bihar
- Assam (Darrang, Nagaon, Sibsagar) and Orissa
- Rajasthan (Jaipur, Ajmer, Alwar & Sikkar) and Jharkhand
- Haryana (Sonapat, Karnal, Panipat, Rohtak, Jhajjar, Hisar)
- Western Area of Uttar Pradesh

## HARVESTING SEASON OF OKRA

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH			PEAK SEASON	PEAK SEASON		PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON
ARUNACHAL PRADESH												
ASSAM			PEAK SEASON				PEAK SEASON	PEAK SEASON				
BIHAR				PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON					
CHHATTISGARH	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON		PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON
DELHI												
GOA												
GUJARAT	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON		PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON
HARYANA				PEAK SEASON	PEAK SEASON	PEAK SEASON						
HIMACHAL PRADESH				PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON		
JAMMU & KASHMIR			PEAK SEASON	PEAK SEASON			PEAK SEASON	PEAK SEASON				
JHARKHAND		PEAK SEASON	PEAK SEASON			PEAK SEASON						
KARNATAKA	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR
KERALA												
MADHYA PRADESH			PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON		
MAHARASHTRA	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON					
MANIPUR												
MEGHALAYA												
MIZORAM						PEAK SEASON	PEAK SEASON					
NAGALAND												
ORRISA	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON		PEAK SEASON
PUNJAB					PEAK SEASON	PEAK SEASON						
RAJASTHAN					PEAK SEASON	PEAK SEASON	PEAK SEASON			PEAK SEASON	PEAK SEASON	
SIKKIM						PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	
TAMIL NADU												
TRIPURA												
UTTAR PRADESH				PEAK SEASON	PEAK SEASON	PEAK SEASON		PEAK SEASON	PEAK SEASON			
UTTARAKHAND			PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON			
WEST BENGAL	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR
ANDMAN & NICOBAR	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON
CHANDIGARH												
DADAR & NAGAR HAVELI	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON
DAMAN & DIU	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON
LAKSHADWEEP												
PONDICHERY			PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON				

PEAK SEASON

LEAN SEASON

ROUND THE YEAR

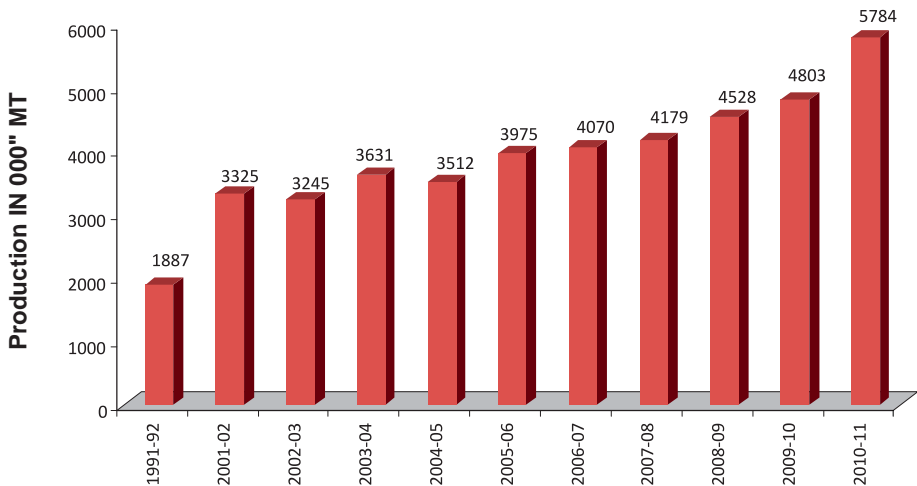
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF OKRA

YEAR	AREA (IN 000" HA)	%OF TOTAL VEG. AREA	PRODUCTION (IN 000"MT)	%OF TOTAL VEG. PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	222.0	4.0	1886.5	3.2	8.5
2001-02	347.2	5.6	3324.7	3.5	9.6
2002-03	329.2	5.4	3244.5	3.8	9.9
2003-04	353.1	5.6	3631.4	3.9	10.3
2004-05	357.3	5.3	3512.4	3.5	9.8
2005-06	391.8	5.5	3974.6	3.6	10.1
2006-07	396.0	5.2	4070.0	3.5	10.3
2007-08	407.0	5.2	4179.0	3.3	10.3
2008-09	432.0	5.4	4528.0	3.5	10.5
2009-10	452.5	5.7	4803.3	3.6	10.6
2010-11	498.0	5.9	5784.0	3.9	11.6

### Production Trend of Okra



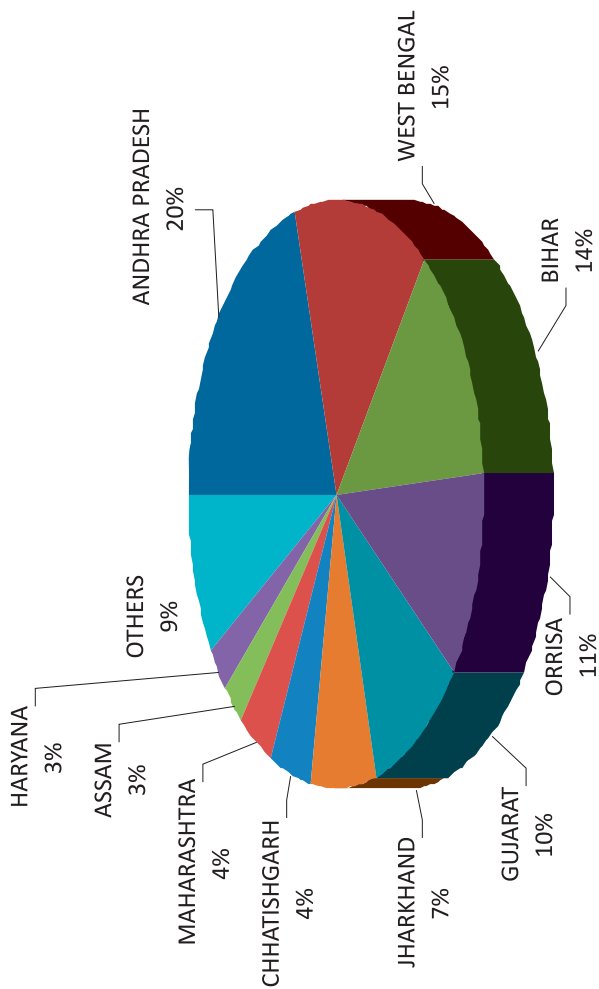
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF OKRA

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
ANDHRA PRADESH	29.3	439.7	15.0	33.5	502.1	15.0	78.9	1184.2	15.0
WEST BENGAL	72.6	830.9	11.4	73.1	839.3	11.5	74.0	862.1	11.6
BIHAR	58.2	743.5	12.8	58.3	766.6	13.2	58.5	788.3	13.5
ORRISA	73.3	639.9	8.7	73.9	651.8	8.8	70.0	651.8	9.3
GUJARAT	44.9	407.1	9.1	49.5	466.2	9.4	54.5	592.5	10.9
JHARKHAND	29.8	417.2	14.0	29.0	406.0	14.0	30.0	421.7	14.1
CHHATISHGARH	23.5	207.6	8.8	23.9	217.3	9.1	25.2	249.1	9.9
MAHARASHTRA	25.0	157.5	6.3	27.0	175.5	6.5	19.0	224.0	11.8
ASSAM	10.3	129.2	12.5	10.9	149.7	13.8	11.1	147.8	13.4
HARYANA							18.2	145.3	8.0
UTTAR PRADESH	10.1	112.2	11.2	11.6	131.2	11.3	U.P. INCLUDED IN OTHERS		
Others	54.7	443.1	8.1	61.9	497.5	8.0	58.8	517.3	8.8
<b>TOTAL</b>	<b>402.3</b>	<b>4088.1</b>	<b>10.2</b>	<b>452.5</b>	<b>4803.2</b>	<b>10.6</b>	<b>498.3</b>	<b>5784.0</b>	<b>11.6</b>





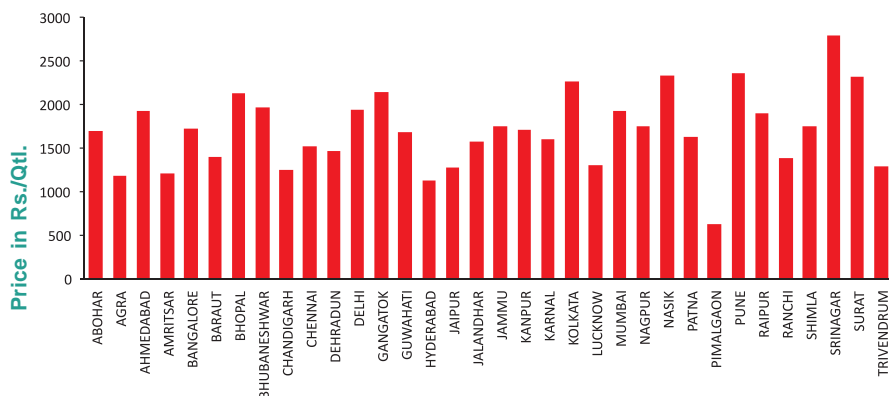
## Leading Okra Producing States (2010-11)



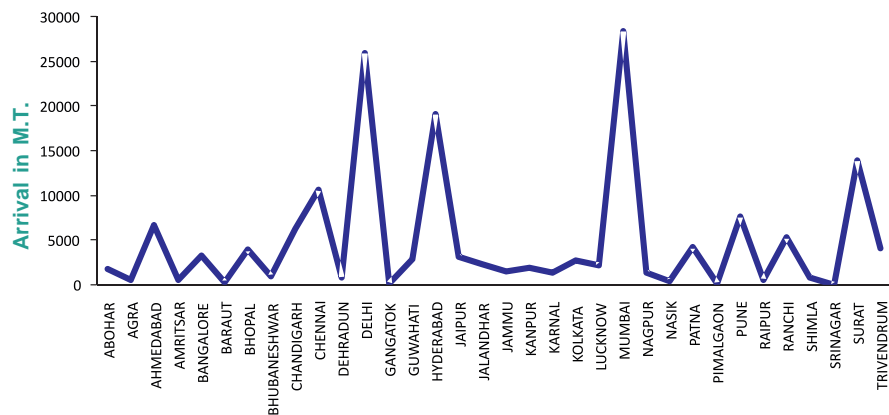




**Annual Wholesale Average Price Trend of Okra - 2011**



**Annual Total Arrival Trend of Okra- 2011**



## ONION

- Origin** – Asia
- Major Producing States** – Maharashtra, Bihar, Karnataka, Gujarat, Andhra Pradesh, Uttar Pradesh, Orissa and Madhya Pradesh
- Latest Production** – 151.18 Lakh Tonnes
- Main Varieties** – Agrifound Dark Red, Agrifound Light Red, Agrifound Red, Agrifound Rose, Arka Bindu, Arka Kalyan, Arka Niketan, Arka Pragati, Baswant 780, Brown Spanish, Co-1, Co-2 Co- 3, Co-4, Early Grano, Hisar II, Kalyanpur Red Round, MDU 1 N-2-4-1, N-53, N-257-9-1, Punjab 48 (S 48), Pusa Madhavi, Punjab Red Round, Punjab Selection, Pusa Ratnar, Pusa Red, Pusa White Flat, Pusa White ROUND, Udaipur 101, 102 & 103.
- Advanced Technology** – Use of Hybrid Seeds
- Storage Conditions :**
- |                   | <b>Fresh</b>   | <b>Frozen</b>     |
|-------------------|----------------|-------------------|
| Temperature       | : 0°C          | - 18°C            |
| Relative Humidity | : 65 - 70%     | Gas-tight Packing |
| Storage Period    | : 3 - 5 months | 6 - 12 months     |
- Treatment for Quality** – Proper Curing
- Sensibility to** – Low Temperature



## Growing Belts

The major onion producing belts are as follows :

- Punjab (Patiala, Sangrur, Amritsar, Ludhiana), Haryana (Panipat, Rohtak, Karnal, Kurukshetra, Ambala) and Rajasthan (Alwar, Ajmer, Sikar, Jaipur).
- Uttar Pradesh (Badaun, Moradabad, Farrukhabad, Jaunpur).
- Bihar / Jharkhand (Patna, Nalanda, W&E Champaran, Muzaffarpur, Sitamarhi, Bhagalpur, Begusarai, Purnea, Katihar).
- Maharashtra (Nasik, Ahmednagar, Pune, Satana, Solapur, Dhule, Jalgaon), Gujarat (Bhavnagar, Rajkot, Junagarh, Jamnagar) and Madhya Pradesh (Khargone, Khandwa) and Chhattisgarh.
- Andhra Pradesh (Kurnool, Cuddapadh, Angareddy) and Karnataka (Dharwad, Chittradurga, Bijapur, Chickmanglur, Gulbarga).
- Tamil Nadu (Salern, Coimbatore, Periyarr, Trichury, Dindigulan Anna, Tirunlveli).

## HARVESTING SEASON OF ONION

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH												
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATISHGARH												
DELHI												
GOA												
GUJARAT												
HARYANA												
HIMACHAL PRADESH												
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH												
MAHARASHTRA												
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORRISA												
PUNJAB												
RAJASTHAN												
SIKKIM												
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERY												

PEAK SEASON
LEAN SEASON
ROUND THE YEAR

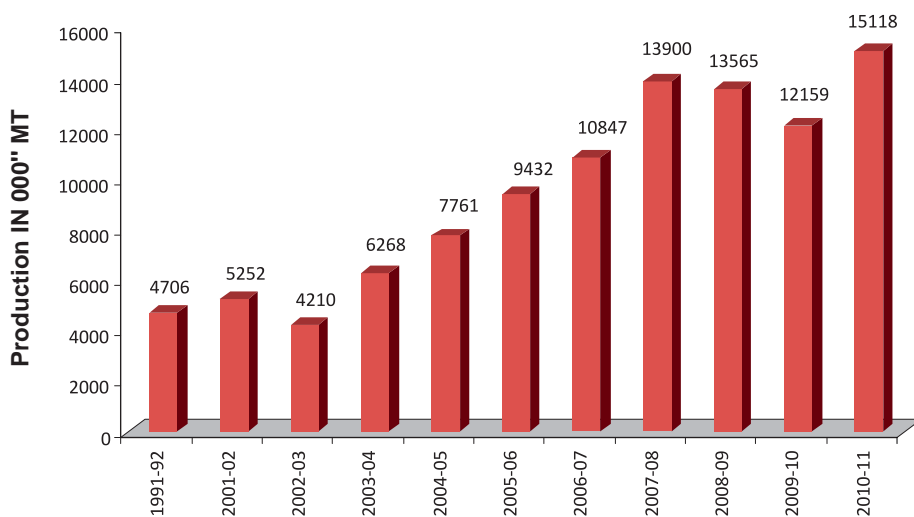
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF ONION

YEAR	AREA (IN 000" HA)	%OF TOTAL VEG. AREA	PRODUCTION (IN 000"MT)	%OF TOTAL VEG. PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	331.8	5.9	4705.8	8.0	14.2
2001-02	495.8	8.1	5252.1	5.6	10.6
2002-03	424.7	7.0	4209.5	5.0	9.9
2003-04	553.8	8.8	6267.6	6.7	11.3
2004-05	613.8	9.1	7760.6	7.7	12.6
2005-06	703.6	9.8	9432.5	8.5	13.4
2006-07	768.0	10.1	10847.0	9.4	14.1
2007-08	821.0	10.5	13900.0	10.8	16.9
2008-09	834.0	10.4	13565.0	10.5	16.3
2009-10	756.2	9.5	12158.8	9.1	16.1
2010-11	1064.0	12.5	15118.0	10.3	14.2

## PRODUCTION TREND OF ONION



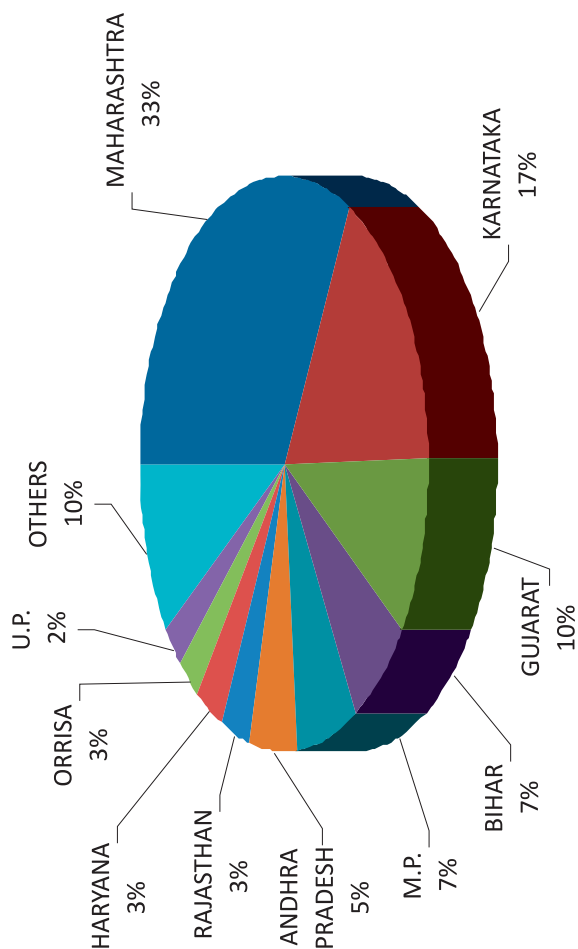
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF ONION

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
MAHARASHTRA	250.0	3932.5	15.7	200.0	3146.0	15.7	415.0	4905.0	11.8
KARNATAKA	165.1	3031.8	18.4	141.3	2266.2	16.0	190.5	2592.2	13.6
GUJARAT	57.6	1409.6	24.5	43.4	1078.6	24.9	62.0	1514.1	24.4
BIHAR	51.6	946.6	18.3	53.0	972.0	18.3	53.3	1082.0	20.3
MADHYA PRADESH	53.0	881.8	16.6	57.3	952.3	16.6	58.3	1021.5	17.5
ANDHRA PRADESH	39.0	662.6	17.0	39.0	662.6	17.0	47.8	812.6	17.0
RAJASTHAN	41.0	369.1	9.0	45.0	742.5	16.5	49.0	494.2	10.1
HARYANA	18.8	347.9	18.5	18.4	330.3	17.9	22.2	453.9	20.5
TAMIL NADU	35.0	305.5	8.7	35.3	339.7	9.6	INCLUDED IN OTHERS		
ORISSA				INCLUDED IN OTHERS			34.8	385.9	11.1
UTTAR PRADESH	22.3	308.0	13.8	24.3	320.3	13.2	23.2	368.6	15.9
Others	100.7	1369.1	13.6	99.1	1348.3	13.6	107.8	1487.7	13.8
<b>TOTAL</b>	<b>834.2</b>	<b>13564.5</b>	<b>16.3</b>	<b>756.2</b>	<b>12158.8</b>	<b>16.1</b>	<b>1063.8</b>	<b>15117.7</b>	<b>14.2</b>





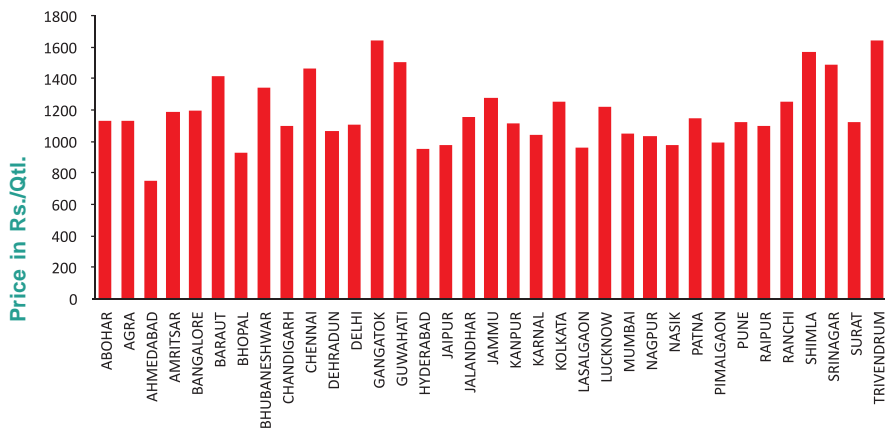
## Leading Onion Producing States (2010-11)



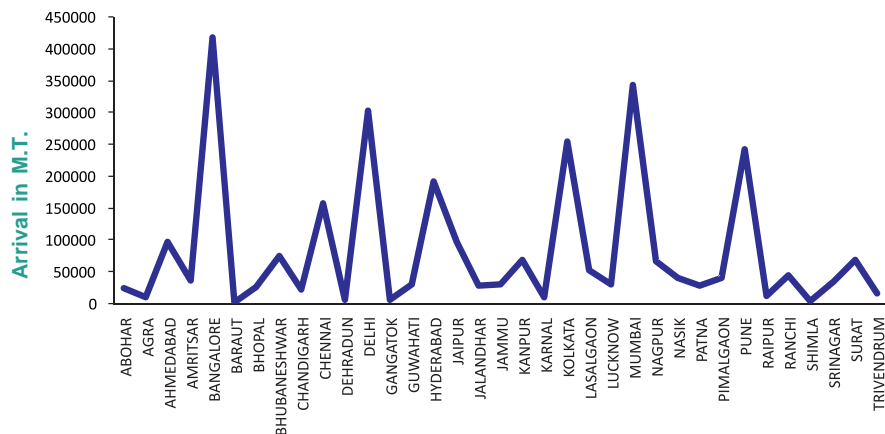




### Annual Wholesale Average Price Trend of Onion - 2011



### Annual Total Arrival Trend of Onion - 2011



## PEAS

- Origin** – Ethiopia
- Major Producing States** – Uttar Pradesh, Bihar, Haryana, Punjab, Himachal Pradesh, Orissa and Karnataka
- Latest Production** – 35.17 Lakh Tonnes
- Main Varieties** – Arkel, Bonneville, Harbhajan, FC-1, Jawahar Matar 1, Jawahar Matar 2, Jawahar Matar 3, Jawahar Matar 4, Jawahar Matar 5, Jawahar Peas 83, JP 4 (JM 6), JP 19, Lincoln, Mattar Ageta 6, Pantnagar Matar 2, Pant Uphar (IP 3), P 88, PRS 4, and VL 3.
- Advanced Technology** – Use of Hybrid seeds

### Storage Condition :

	<u>Fresh</u>	<u>Frozen</u>
Temperature	: 0°C	- 23 to -18°C
Relative Humidity	: 95%	Gas-tight Packing
Storage Period	: 3 - 7 days	1 year +
Freezing Point	: - 0.6°C	-

- Sensibility to** – High temperature and High humidity

### Growing Belts

The major peas producing belts are as follow :

- Karnataka (Belgaum, Bangalore, Rural, Dharwad, Kolar, Chickmagalore)



- Madhya Pradesh (Ujjain, Durg)
- Rajasthan (Jaipur, Alwar, Jodhpur, Udaipur)
- West Bengal (Nadia, Hoogly, 24 Parganas)
- Punjab (Jalandhar, Amritsar, Hoshiarpur)
- Haryana (Sonapat, Jhajjar, Rohtak, Karnal, Panipat Hisar)
- Assam (Darrang, Kamrup, Nagaon)
- Western Area of Uttar Pradesh
- Himachal Pradesh, Bihar and Orissa

## HARVESTING SEASON OF PEAS

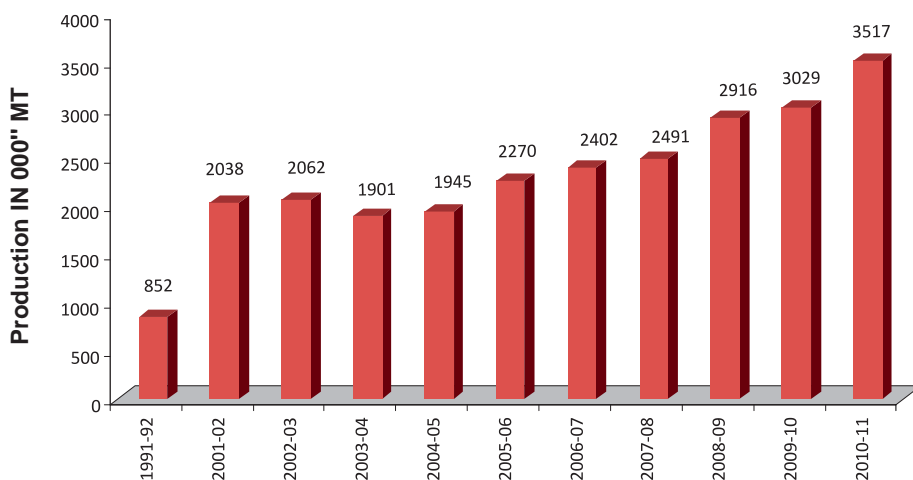
STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH	PEAK SEASON	LEAN SEASON									PEAK SEASON	LEAN SEASON
ARUNACHAL PRADESH												
ASSAM	PEAK SEASON	PEAK SEASON	PEAK SEASON	LEAN SEASON		PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON
BIHAR	PEAK SEASON		LEAN SEASON	LEAN SEASON								PEAK SEASON
CHHATISHGARH	PEAK SEASON	PEAK SEASON	LEAN SEASON								LEAN SEASON	PEAK SEASON
DELHI												
GOA												
GUJARAT	PEAK SEASON	PEAK SEASON	PEAK SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	PEAK SEASON
HARYANA	PEAK SEASON	PEAK SEASON		LEAN SEASON							LEAN SEASON	
HIMACHAL PRADESH	PEAK SEASON	PEAK SEASON	PEAK SEASON	LEAN SEASON			PEAK SEASON	PEAK SEASON	LEAN SEASON			LEAN SEASON
JAMMU & KASHMIR			PEAK SEASON	LEAN SEASON	LEAN SEASON							
JHARKHAND	LEAN SEASON										PEAK SEASON	PEAK SEASON
KARNATAKA	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR	ROUND THE YEAR
KERALA												
MADHYA PRADESH	LEAN SEASON										PEAK SEASON	PEAK SEASON
MAHARASHTRA	PEAK SEASON	PEAK SEASON	LEAN SEASON									LEAN SEASON
MANIPUR	PEAK SEASON										LEAN SEASON	PEAK SEASON
MEGHALAYA									LEAN SEASON		PEAK SEASON	
MIZORAM	PEAK SEASON											LEAN SEASON
NAGALAND		LEAN SEASON	PEAK SEASON									
ORRISA	PEAK SEASON	PEAK SEASON										PEAK SEASON
PUNJAB			PEAK SEASON	LEAN SEASON								
RAJASTHAN	PEAK SEASON	PEAK SEASON	LEAN SEASON									
SIKKIM	LEAN SEASON	LEAN SEASON	LEAN SEASON	PEAK SEASON	PEAK SEASON	PEAK SEASON						
TAMIL NADU												
TRIPURA												
UTTAR PRADESH		PEAK SEASON										LEAN SEASON
UTTARAKHAND	LEAN SEASON	LEAN SEASON		PEAK SEASON	PEAK SEASON	LEAN SEASON					PEAK SEASON	PEAK SEASON
WEST BENGAL	LEAN SEASON	PEAK SEASON	LEAN SEASON									
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI	PEAK SEASON	PEAK SEASON	PEAK SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	PEAK SEASON
DAMAN & DIU	PEAK SEASON	PEAK SEASON	PEAK SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	LEAN SEASON	PEAK SEASON
LAKSHADWEEP												
PONDICHERRY												
<div> <div>PEAK SEASON</div> <div>LEAN SEASON</div> <div>ROUND THE YEAR</div> </div>												
SOURCE : Director of Horticulture / Agriculture of respective State / UT's												



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF PEAS

YEAR	AREA (IN 000" HA)	%OF TOTAL VEG.AREA	PRODUCTION (IN 000"MT)	%OF TOTAL VEG. PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	177.7	2.9	851.6	1.7	4.8
2001-02	303.3	4.9	2038.2	2.2	6.7
2002-03	305.2	5.0	2061.8	2.4	6.8
2003-04	285.2	4.5	1901.2	2.0	6.7
2004-05	276.3	4.1	1944.8	1.9	7.0
2005-06	286.1	4.0	2270.0	2.1	7.9
2006-07	297.0	3.9	2402.0	2.1	8.1
2007-08	313.0	4.0	2491.0	1.9	8.0
2008-09	348.0	4.4	2916.0	2.3	8.4
2009-10	364.9	4.6	3029.4	2.3	8.3
2010-11	370.0	4.4	3517.0	2.4	9.5

### Production Trend of Peas



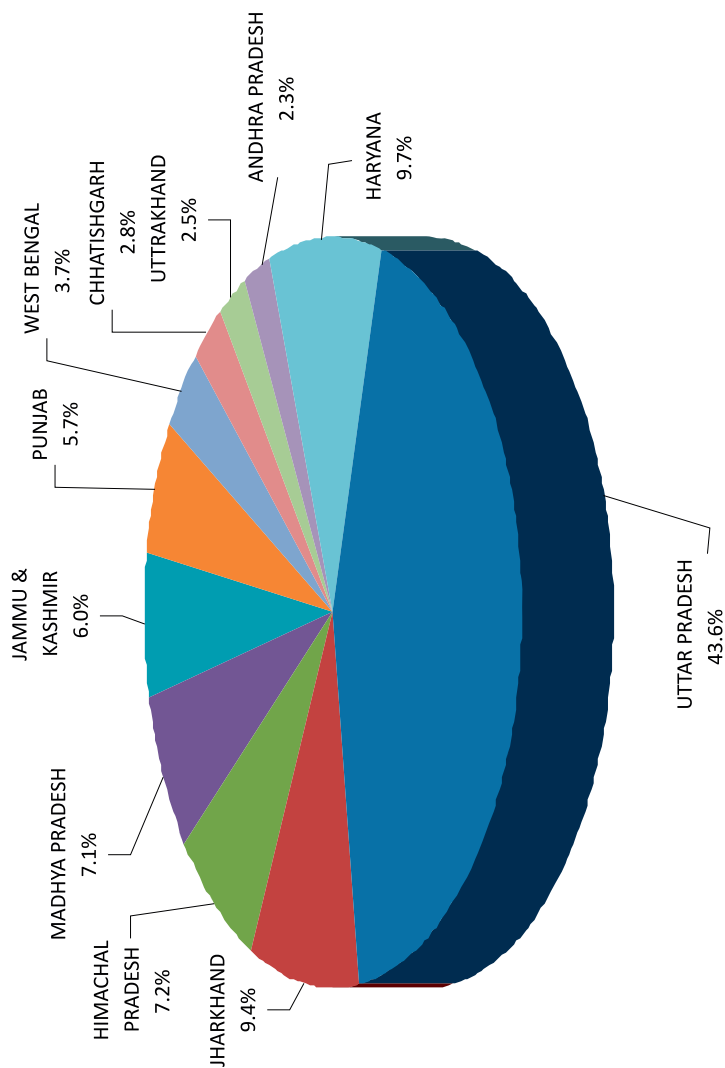
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF PEAS

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
UTTAR PRADESH	159.4	1464.8	9.2	159.0	1465.8	9.2	159.2	1532.4	9.6
JHARKHAND	12.1	241.4	20.0	20.5	287.0	14.0	21.3	329.1	15.4
HIMACHAL PRADESH	18.9	202.5	10.7	21.7	237.3	10.9	22.8	254.2	11.1
MADHYA PRADESH	23.7	260.8	11.0	20.0	220.0	11.0	22.8	251.3	11.0
JAMMU & KASHMIR	4.4	73.5	16.7	7.6	69.9	9.2	6.8	212.5	31.3
PUNJAB	18.5	112.0	6.1	19.1	115.5	6.1	19.7	200.6	10.2
WEST BENGAL	21.1	124.7	5.9	21.1	125.6	6.0	21.4	129.4	6.0
CHHATISHGARH				10.6	96.6	9.2	10.8	99.7	9.2
UTTRAKHAND	10.6	71.1	6.7	10.8	71.0	6.6	11.2	86.9	7.8
ANDHRA PRADESH							2.3	81.2	35.0
HARYANA	79.5	365.7	18.9	74.7	340.8	16.8	71.4	340.2	4.8
<b>TOTAL</b>	<b>348.1</b>	<b>2916.5</b>	<b>8.4</b>	<b>364.9</b>	<b>3029.4</b>	<b>8.3</b>	<b>369.8</b>	<b>3517.4</b>	<b>9.5</b>





## Leading Peas Producing States (2010-11)



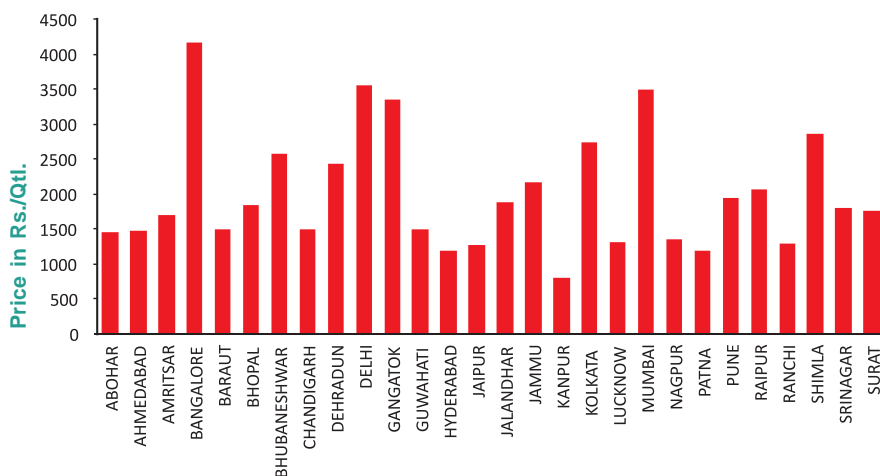
**MONTHLY AVERAGE WHOLESale PRICE AND ARRIVAL OF PEAS DURING THE PERIOD  
JANUARY TO DECEMBER, 2011**

Average Wholesale Price in Rs./Qtl.  
Total Arrivals in M.T.

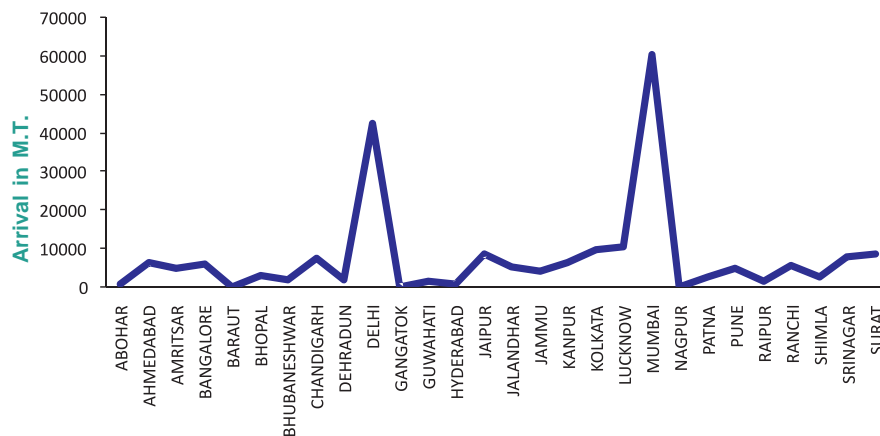
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual		
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	
ABOCHAR	1463	91	1246	56	1268	221	1750	75	-	-	-	-	-	-	-	-	-	-	-	-	-	1940	41	1171	424	908	
	1331	1568	983	2668	1041	1144	2014	99	-	-	-	-	-	-	-	-	-	-	-	-	-	2225	112	1316	889	1485	
RAHMEDABAD	1465	844	848	947	841	1532	546	1354	232	-	-	-	-	-	-	-	-	-	-	-	-	3921	104	2840	343	840	
AMRITSAR	2292	1163	1794	1548	2415	1003	4230	384	5893	556	7060	473	4772	115	2750	193	3404	145	5500	65	6698	96	3393	228	1703.38	5119	
BANGALORE	1790	81	1376	82	1072	129	1170	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2158	60	1513.2	
BARAUT	1296	846	961	720	1262	672	2382	22	-	-	-	-	-	-	-	-	-	-	-	-	-	3308	6	1308	888	1852.83	
BHOPAL	1843	378	1016	675	1448	510	2743	36	-	-	-	-	-	-	-	-	-	-	-	-	-	5686	32	2750	354	2581	
BHUBANESHWAR	1025	1180	918	1560	882	1591	1443	504	1976	514	1988	373	-	-	-	-	-	-	-	-	-	2592	495	1165	1470	1499.88	
CHANDIGARH	842	408	841	241	831	317	1573	376	1694	108	2154	41	4210	21	5215	26	5468	17	-	-	-	2797	50	1211	383	2459.64	
DEHRADUN	1481	7692	1129	6689	1038	5142	2053	2262	2315	3507	3904	1629	5054	1669	5226	1747	7804	614	7511	639	3980	2637	1354	8574	3570.75	42801	
DELHI	3160	31	2146	29	1691	30	2990	17	3378	22	3740	19	4424	14	-	-	-	-	-	-	-	-	-	-	5395	21	3361.75
GANGATOK	1908	553	933	614	965	434	2250	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1514	1712	
GUWAHATI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HYDERABAD	1189	3155	673	1707	553	1491	1014	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1211	1062	1211	
JAIPUR	1692	2044	1357	1258	953	1271	1880	341	2609	226	2845	159	-	-	-	-	-	-	-	-	-	3064	383	1208	1750	1283.5	
JALANDHAR	1513	683	900	858	735	609	1648	197	900	327	1754	276	3185	181	3127	93	2686	54	4620	32	4113	236	1017	852	2183.17	4408	
JAMMU	967	3432	611	2876	852	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	810	
KANPUR	1661	3103	923	3178	1478	1013	2398	300	3530	40	-	-	-	-	-	-	-	-	-	-	-	6441	361	2825	1773	2750.86	
KOLKATA	1351	2298	723	3083	1256	779	1910	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	810	
LUCKNOW	1658	9303	1117	11915	1400	9090	2986	2522	3048	2929	4075	2011	3908	3006	3273	5477	1580	8458	1055	4725	3028	1744	10638	3467.25	60650		
MUMBAI	1726	134	1074	151	1263	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1354.33	353	
NAGPUR	1435	1135	853	945	1132	475	1013	40	-	-	-	-	-	-	-	-	-	-	-	-	-	1569	135	1200.4	2730	-	
PATNA	2303	1680	1989	938	2443	516	2900	15	-	-	-	-	-	-	1200	1165	-	-	-	-	-	950	780	1950	135	1962.14	
PUNE	1509	425	1308	526	1319	328	2732	34	-	-	-	-	-	-	-	-	-	-	-	-	-	3880	56	1716	277	2077.33	
RAIPUR	1066	829	530	856	738	705	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2580	84	1557	3548	1296.2	
RANCHI	1697	147	1542	225	1048	148	1407	258	1910	496	2142	345	2465	270	3396	113	4002	93	7369	96	5338	155	2183	335	2874.92		
SHIMLA	2146	1007	1464	1220	1465	940	2048	620	1382	1333	1241	885	-	-	-	-	-	-	-	-	-	2438	195	1369	1500	1810.33	
SIRSA	1734	5725	1139	1235	1452	739	2874	112	-	-	-	-	-	-	2740	55	-	-	-	-	-	-	-	-	1665	1047	
SRINAGAR	1734	5725	1139	1235	1452	739	2874	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1665	1047	
SURAT	1734	5725	1139	1235	1452	739	2874	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1665	1047	
TIRUNELVELI	1734	5725	1139	1235	1452	739	2874	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1665	1047	



**Annual Wholesale Average Price Trend of Peas - 2011**



**Annual Total Arrival Trend of Peas - 2011**



## TOMATO

- Origin** – Peruvian & Mexican region
- Major Producing States** – Bihar, Karnataka, Uttar Pradesh, Orissa, Andhra Pradesh, Maharashtra, Madhya Pradesh & Assam
- Latest Production** – 168.20 Lakh Tonnes
- Main Varieties** – Arka Saurabh, Arka Vikash ARTH 3, ARTH 4, Avinash 2, BSS 90, CO3, HS 101, HS 102 HS 110. Hisar Anmol, Hisar Arun, Hisar Lalima, Hisar Lalit, Krishna, KS 2, Matri, MTH 6, NA 601, Naveen, Pusa 120, Punjab Chhuhara, Pant Bahar, Pusa Divya, Pusa Early Dwarf, Pusa Hybrid 1, Pusa Hybrid 2, Pusa Hybrid 4, Pusa Ruby, Pusa Sheetal, Pusa Uphar, Rajni, Rashmi, Ratna and Rupali.
- Advanced Technology** – Use of Hybrid seeds
- Storage Conditions :**

		<u>Mature Green</u>	<u>Pink</u>	<u>Ripe</u>
Temperature	:	13 - 18°C	10 - 13°C	7 - 10°C
Relative Humidity	:	85 - 90%	–	–
Storage Period	:	2 - 3 weeks	7 - 10 days	3 - 5 days

- Treatment for Quality** – Integrated Pest Management (IPM)
- Sensibility to** – Refrigeration and Freezing
- Growing Belts**



The major tomato producing belts are as follows :

- Uttar Pradesh and Himachal Pradesh (Shimla, Kullu & Solan).
- Punjab (Amritsar, Ropar, Jalandhar, Hoshiyarpur), Haryana (Rohtak, Sonapat, Jhajjar, Faridabad, Karnal, and Rajasthan (Jaipur, Dholpur, Alwar, Tonk, Bharatpur).
- Bihar / Jharkhand (Vaishali, Sitamarhi, Bhagalpur, Patna, Aurangabad, Nalanda, Bhojpur, Gandhinagar, W&E Champaran) and Uttar Pradesh.
- Maharashtra (Nasik, Ahmednagar, Pune & Nagpur) and Gujarat (Surat, Valsad, Baroda, Ahmedabad, Gandhinagar, Khera & Jamnagar, Chiffore).
- Madhya Pradesh/Chhattisgarh (Raipur, Durg, Bastar, Satna, Sagar, Sarguja, Jabalpur, Bilaspur, Raigarh) and Orissa.
- Karnataka (Belgaum, Dharwad) and Andhra Pradesh (Rangareddy, Mahabubnagar, Parakasam, Vishakhapatnam, Chittore).
- Karnataka (Kolar, Bangalore R&U, Bellary), Tamil Nadu (N.Arcot Ambedkar, Salem, Dharampur, Coimbatore, Periyar, Trichy, Madurai, Dindigul Anna).

## HARVESTING SEASON OF TOMATO

STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH												
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATISHGARH												
DELHI												
GOA												
GUJARAT												
HARYANA												
HIMACHAL PRADESH												
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH												
MAHARASHTRA												
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORRISA												
PUNJAB												
RAJASTHAN												
SIKKIM												
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERRY												

PEAK SEASON
LEAN SEASON
ROUND THE YEAR

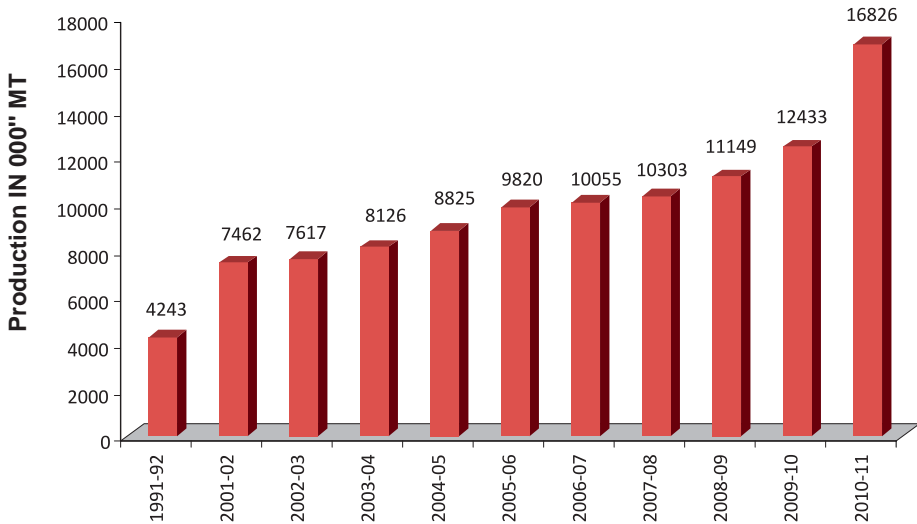
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF TOMATO

YEAR	AREA (IN 000" HA)	%OF TOTAL VEG.AREA	PRODUCTION (IN 000"MT)	%OF TOTAL VEG. PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	289.1	5.2	4243.4	7.2	14.7
2001-02	458.1	7.4	7462.3	8.0	16.3
2002-03	478.8	7.9	7616.7	9.0	15.9
2003-04	502.8	8.0	8125.6	8.7	16.2
2004-05	505.4	7.5	8825.4	8.7	17.5
2005-06	546.1	7.6	9820.4	8.9	18.0
2006-07	596.0	7.9	10055.0	8.7	16.9
2007-08	566.0	7.2	10303.0	8.0	18.2
2008-09	599.0	7.5	11149.0	8.6	18.6
2009-10	634.4	7.9	12433.2	9.3	19.6
2010-11	865.0	10.2	16826.0	11.5	19.5

### Production Trend of Tomato



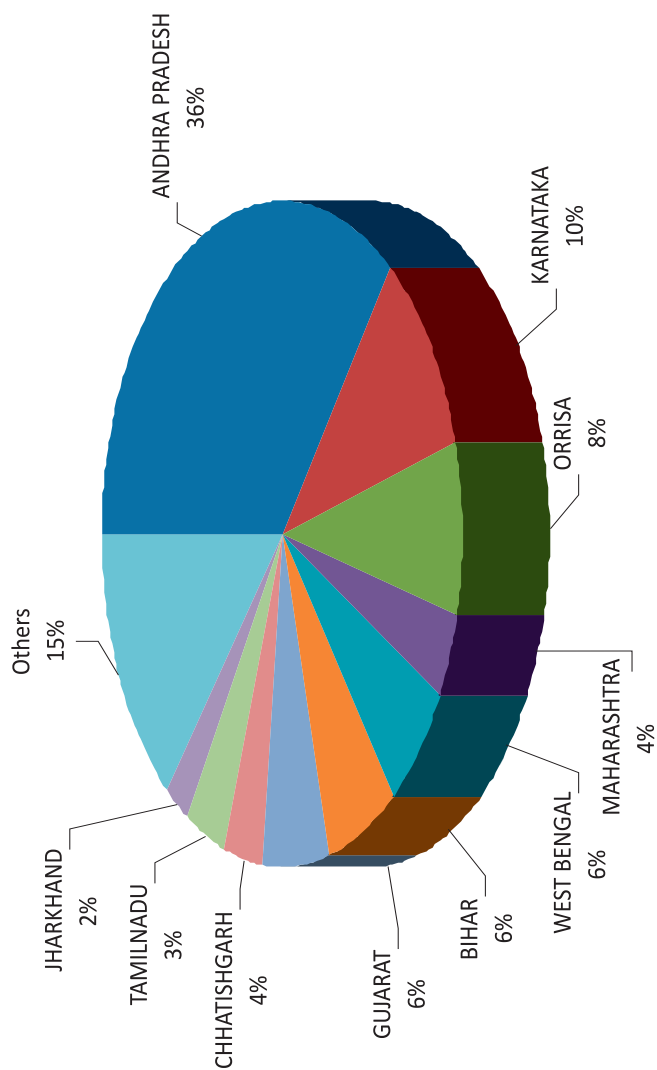
# STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF TOMATO

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
ANDHRA PRADESH	74.1	1408.1	19.0	87.0	1652.1	19.0	296.3	5926.2	20.0
KARNATAKA	53.4	1573.8	29.5	48.3	1580.0	32.7	51.2	1756.7	34.3
ORRISA	101.1	1360.5	13.5	102.9	1394.7	13.6	96.6	1367.2	14.1
MAHARASHTRA	33.0	732.3	22.2	50.0	1112.5	22.3	52.0	738.0	14.2
WEST BENGAL	52.3	999.7	19.1	53.5	1050.0	19.6	54.1	1063.7	19.6
BIHAR	46.4	1037.2	22.4	46.5	1043.7	22.4	46.8	1056.2	22.6
GUJARAT	30.5	746.2	24.4	33.8	841.3	24.9	38.8	978.4	25.2
CHHATISHGARH	39.2	420.4	10.7	41.3	600.6	14.5	42.9	627.9	14.6
TAMILNADU	INCLUDED IN OTHERS			26.1	519.1	19.9	27.2	580.6	21.4
JHARKHAND	21.8	436.1	20.0	21.8	436.2	20.0	22.3	401.6	18.0
Others	147.2	2434.7	16.5	123.2	2203.0	17.9	136.6	2330.0	17.1
<b>TOTAL</b>	<b>599.1</b>	<b>11148.8</b>	<b>18.6</b>	<b>634.4</b>	<b>12433.2</b>	<b>19.6</b>	<b>864.9</b>	<b>16826.4</b>	<b>19.5</b>





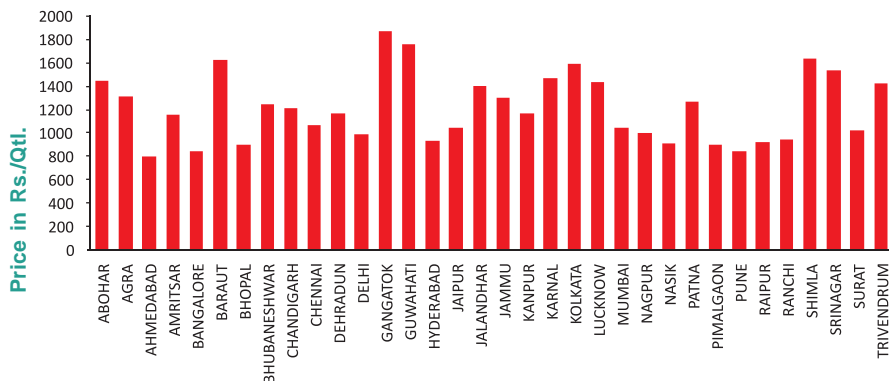
Leading Tomato Producing States (2010-11)



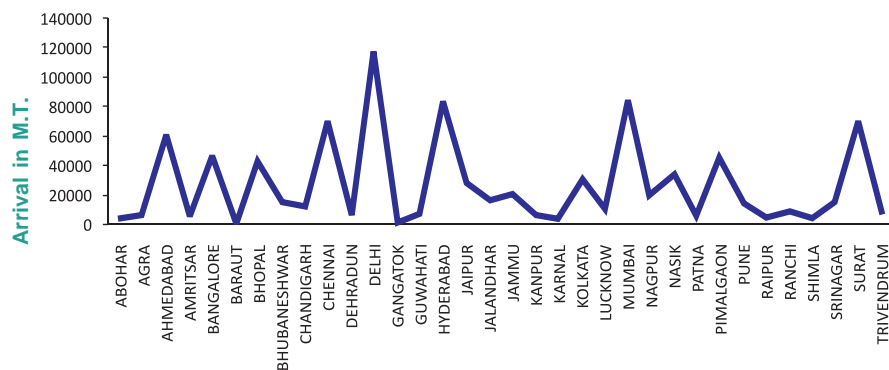




## Annual Wholesale Average Price Trend of Tomato (Hybrid) - 2011



## Annual Total Arrival Trend of Tomato (Hybrid) - 2009/11



## POTATO

<b>Origin</b>	–	South America
<b>Major Producing States</b>	–	Uttar Pradesh, Bihar, West Bengal, Punjab, Karnataka, Assam & Madhya Pradesh
<b>Latest Production</b>	–	423.39 Lakh Tonnes
<b>Main Varieties</b>	–	Kufri Sindhuri, Kufri Chandramukhi, Kufri, Jyoti, Kufri Muthu, Kufri Lauvkar, Kurfi Dewa, Kufri Badshah, Kufri Bahar, Kufri Lalima, Kufri Swarna, Kufri Megha, Kufri Ashoka, Kufri Jawahar and Kufri Sutlej.
<b>Advanced Technology</b>	–	Use of TPS (True Potato Seed)
<b>Storage Conditions</b>	–	

		<b>Fresh</b>	<b>Frozen</b>
Temperature	:	3° - 4°C	- 23 to - 18°C
Relative Humidity	:	90 - 95%	Vapor-tight Packing
Storage Period	:	5 - 10 Month	1 year +

<b>Sensibility to</b>	–	Refrigeration and Freezing
-----------------------	---	----------------------------

### Growing Belts

The major potato producing belts are as follows :

- Himachal Pradesh (Shimla, Lahaul Spita & Mandi)
- Punjab (Jalandhar, Hoshiyarpur, Ludhiana & Patiala) and Haryana (Ambala, Kurukshetra, Hisar & Karnal)
- Uttar Pradesh (Farrukhabad, Etawah, Manपुरi, Barabanki, Allahabad, Badaun,



Moradabad, Agra Aligarh, Mathura, Faizabad,) Madhya Pradesh (Sidhi, Satana, Rewa, Sarguja, Rajgarh, Sagar, Tikamgarh and Rajasthan (Bharatpur, Dholpur).

- Gujarat (Khera, Dissa, Banansh Katha, Jamnagar, Broda, Mehsana).
- Orissa (Cuttack, Dhenkamal, Puri & Sambalpur) and West Bengal.
- Maharashtra (Pune, Satana, Kochapur, Nasik), Kamataka (Belgaum & Dharwad) and Andhra Pradesh (Medak)
- Karnataka (Hassan, Kolar) Andhra Pradesh (Chitture) and Tamil Nadu (Dhindigulanna, The Nilgiris).

## HARVESTING SEASON OF POTATO

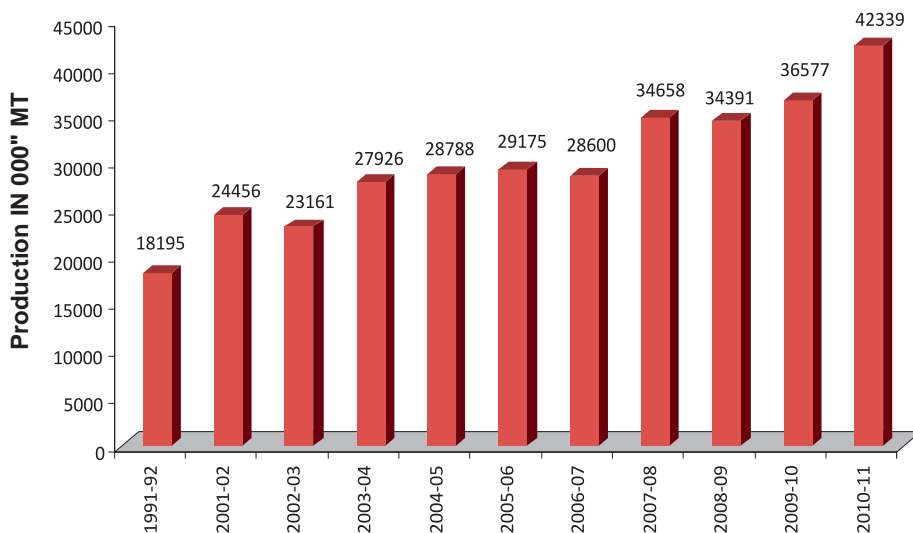
STATE/UT'S	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDHRA PRADESH												
ARUNACHAL PRADESH												
ASSAM												
BIHAR												
CHHATTISGARH												
DELHI												
GOA												
GUJARAT												
HARYANA												
HIMACHAL PRADESH												
JAMMU & KASHMIR												
JHARKHAND												
KARNATAKA												
KERALA												
MADHYA PRADESH												
MAHARASHTRA												
MANIPUR												
MEGHALAYA												
MIZORAM												
NAGALAND												
ORRISA												
PUNJAB												
RAJASTHAN												
SIKKIM												
TAMIL NADU												
TRIPURA												
UTTAR PRADESH												
UTTARAKHAND												
WEST BENGAL												
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERY												
<div> <div></div> PEAK SEASON           <div></div> LEAN SEASON           <div></div> ROUND THE YEAR         </div>												
SOURCE : Director of Horticulture / Agriculture of respective State / UT's												



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF POTATO

YEAR	AREA (IN 000" HA)	%OF TOTAL VEG.AREA	PRODUCTION (IN 000"MT)	%OF TOTAL VEG. PRODUCTION	PRODUCTIVITY (IN MT/HA)
1991-92	1135.1	20.3	18195.0	31.1	16.0
2001-02	1259.5	20.5	24456.1	26.1	19.4
2002-03	1337.2	22.0	23161.4	27.3	17.3
2003-04	1484.7	23.5	27925.8	30.0	18.8
2004-05	1523.9	22.6	28787.7	28.4	18.9
2005-06	1569.2	21.9	29174.6	26.4	18.6
2006-07	1743.0	23.0	28600.0	24.9	16.4
2007-08	1795.0	22.9	34658.0	27.0	19.3
2008-09	1828.0	22.9	34391.0	26.6	18.8
2009-10	1835.3	23.0	36577.3	27.3	19.9
2010-11	1863.0	21.9	42339.0	28.9	22.7

### Production Trend of Potato



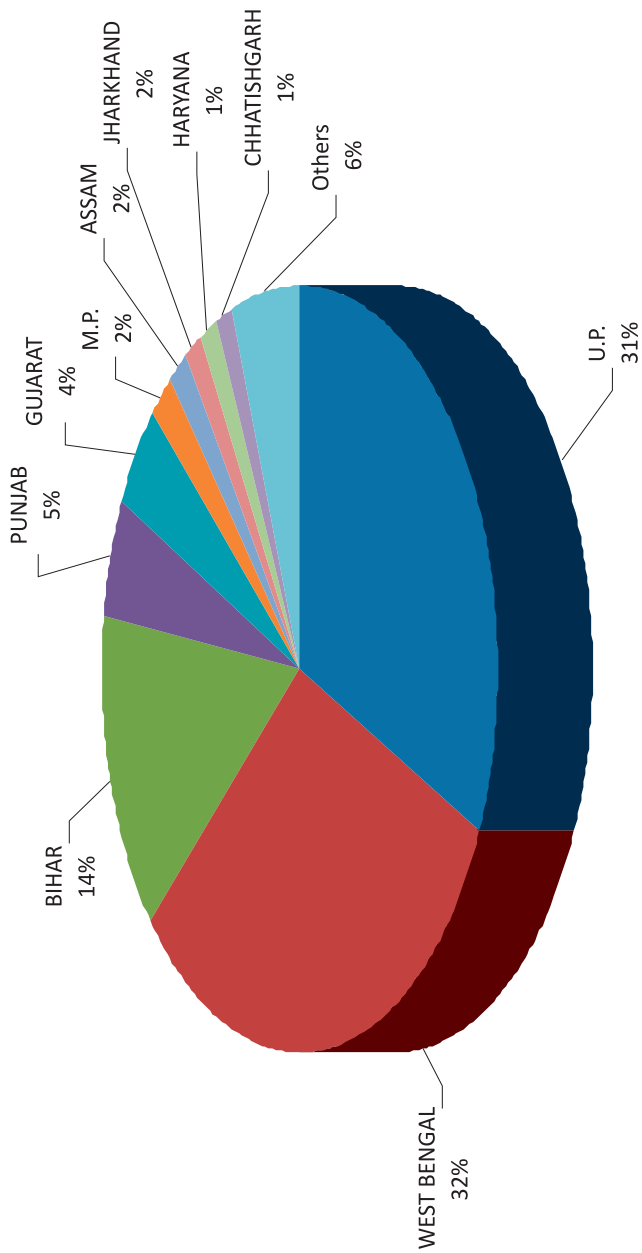
## STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF POTATO

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
UTTAR PRADESH	527.3	10809.9	20.5	540.8	13447.3	24.9	556.5	13576.6	24.4
JHARKHAND				38.2	573.1	15.0	43.2	655.5	15.2
MADHYA PRADESH	66.2	882.9	13.3	60.8	608.4	10.0	62.0	743.0	12.0
PUNJAB	81.1	2001.1	24.7	83.1	2116.5	25.5	83.6	2088.4	25.0
WEST BENGAL	400.8	9900.8	24.7	370.0	8880.0	24.0	406.3	13391.2	33.0
CHHATISHGARH				INCLUDED IN OTHERS			36.4	526.3	14.5
Others	752.9	10796.2	91.7	742.3	10952.1	92.0	675.2	11358.4	16.8
<b>TOTAL</b>	<b>1828.3</b>	<b>34390.9</b>	<b>18.8</b>	<b>1835.3</b>	<b>36577.3</b>	<b>19.9</b>	<b>1863.2</b>	<b>42339.4</b>	<b>22.7</b>





## Leading Potato Producing States (2010-11)



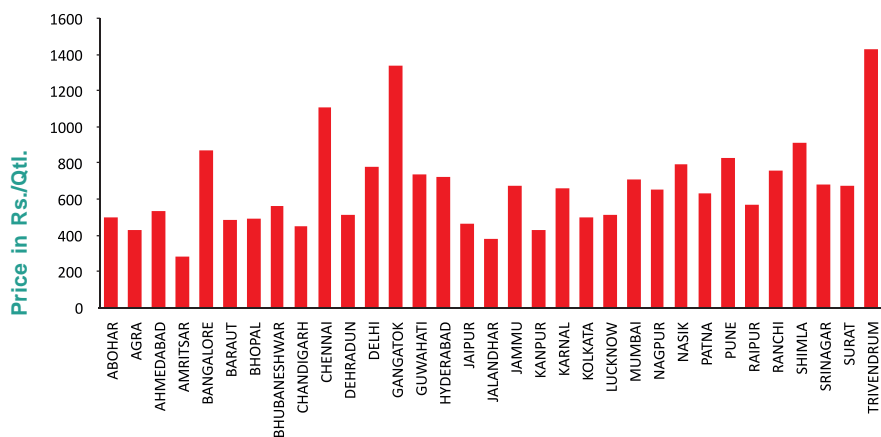
# MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF POTATO (FRESH) DURING THE PERIOD JANUARY TO DECEMBER, 2011

Average Wholesale Price in Rs./Qtl.  
Total Arrivals in M.T.

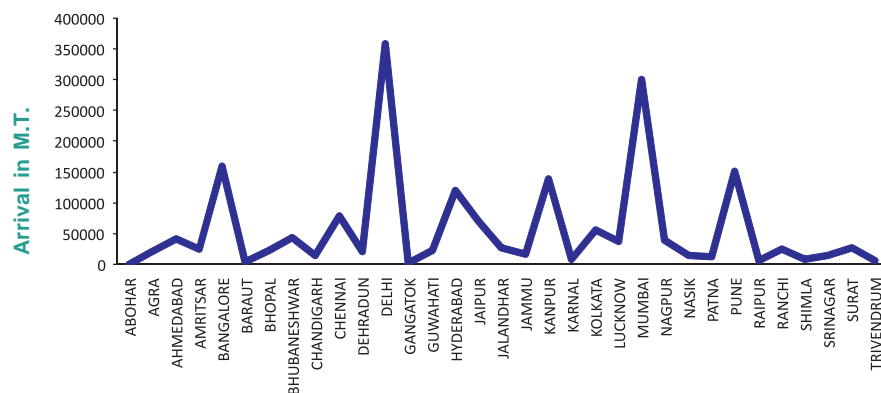
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival
ABO HAR	-	-	-	-	600 105	-	-	-	-	-	-	400 120	500 225
AGRA	330 4598	360 3270	390 2760	388 1738	503 1550	530 1120	476 1290	472 950	449 220	-	475 80	390 3214	433 20790
AHMEDABAD	579 8397	514 11723	513 13498	553 8120	-	-	-	-	-	-	-	-	540 41738
AMRITSAR	248 4375	224 4530	277 4100	248 3430	277 1105	-	-	-	-	-	528 775	210 6205	287 24520
BANGALORE	1204 11505	1010 11954	794 15768	809 10103	870 10677	857 12115	846 12356	779 20394	910 17433	894 9846	767 14544	733 13032	873 160027
BARAUT	514 857	389 816	482 1236	503 556	-	-	-	-	-	-	-	535 464	487 3929
BHOPAL	483 3172	413 3183	391 3509	477 3423	538 3832	660 2666	-	550 160	500 145	-	-	466 321	498 23611
BHUBANESHWAR	510 2800	403 7850	564 13300	606 12650	731 8050	-	-	-	-	-	-	-	583 44650
CHANDIGARH	249 2321	224 2361	354 2323	399 1751	542 1722	659 290	-	-	-	-	-	-	457 15175
CHENNAI	1318 6390	1128 6360	924 7370	963 5790	978 6600	1058 5670	965 5990	1091 9555	1146 9077	1296 5159	1361 5176	1106 6209	1111 79336
DEHRADUN	337 2239	341 1936	353 1855	330 1493	357 1641	527 1308	771 1834	795 2298	804 1919	749 1906	541 417	306 2374	518 21420
DELHI	417 29764	405 27520	456 32566	456 26675	562 24567	796 24021	1110 28844	1236 28862	1275 34732	1311 27800	968 34066	362 39637	780 359054
GANGATOK	1017 133	884 108	834 146	900 119	899 140	957 145	1238 117	1607 94	1927 95	2226 81	2129 95	1477 105	1341 1376
GUWAHATI	594 4100	434 3605	619 4040	684 3260	783 4230	839 1130	1140 395	-	900 270	-	-	645 2785	738 23815
HYDERABAD	785 6336	690 5174	639 9077	545 7904	600 9295	672 14343	802 10593	1016 9468	794 18646	771 8149	770 10322	612 11334	725 121241
JAIPUR	445 10854	412 13775	450 17549	474 10537	514 8893	-	555 330	-	-	-	516 1230	361 8345	466 71503
JALANDHAR	369 4450	361 3996	426 6888	356 5115	378 5243	400 2295	-	-	-	-	-	-	382 27987
JAMMU	410 2404	371 2296	504 2739	474 2158	526 2086	-	850 714	975 1038	1094 908	950 714	832 423	440 1972	675 17542
KANPUR	341 43741	356 22623	464 24646	380 38478	474 6774	500 1132	-	-	500 1473	-	-	-	431 138867
KARNAL	268 1565	305 1258	400 1282	446 1043	502 464	-	1090 38	1190 171	1263 17	-	864 454	343 1689	667 7982
KOLKATA	493 7245	393 10836	474 11476	494 12681	570 2407	-	-	-	-	-	-	607 10944	505 55589
KUCKNOW	408 8355	385 5745	473 11892	441 4750	558 3908	673 2004	-	-	-	-	779 1362	419 6731	517 37272
MUMBAI	850 25585	803 22577	816 26593	688 18691	779 23695	733 15767	733 15406	677 21672	690 27658	671 28976	604 31271	498 42143	712 300234
NAGPUR	719 2430	571 6680	632 8960	596 7070	670 6490	705 5780	706 2330	-	-	-	-	-	686 39340
NASIK	917 4390	414 1230	525 900	492 1410	596 1385	604 705	-	-	-	-	-	-	799 14570
PATNA	507 4800	414 1230	525 900	492 1410	596 1385	604 705	-	-	-	-	-	-	634 13370
PUNE	957 13178	101 10692	813 11692	813 8655	952 12857	908 14244	836 12381	881 13366	852 13661	713 14980	838 11238	694 13690	831 150634
RAIPUR	589	-	484 2521	573 2173	638 1014	666 556	-	-	-	-	1212 980	723 2010	574 6264
RANCHI	613 4070	577 4185	647 4152	615 3165	769 3645	-	-	-	-	-	-	-	763 25622
SHIMLA	578 607	476 635	469 779	552 687	538 789	651 618	991 574	1415 489	1505 531	1617 460	1394 1889	776 801	914 8859
SRINAGAR	682 2720	684 2080	624 1840	647 1585	722 1605	725 1520	715 1800	686 1420	-	-	-	-	683 14570
SURAT	690 5373	645 5086	660 5575	670 4968	740 5713	-	-	-	-	-	-	-	681 26715
TRIVENDRUM	1918 209	1227 385	1274 454	1212 399	1252 510	1277 531	1381 455	1498 478	1554 377	1497 290	1684 2075	1527 556	1433 6719



## Annual Wholesale Average Price Trend of Potato (Fresh) - 2011



## Annual Total Arrival Trend of Potato (Fresh) - 2011



## SWEET POTATO

It is grown as a starchy food crop throughout the tropical, subtropical and frost-free temperate climatic zone in the world.

**Latest Production** : 10.47 Lakh Tonnes

**Major Producing States** : Orissa, Bihar, Uttar Pradesh and Madhya Pradesh

### Recommended varieties

States/Area	Varieties
<b>Orissa</b>	Bhuban Sankar, Gouri
<b>Tamil Nadu</b>	Co 1, Co 2, Co 3, H 41,
<b>Kerala</b>	H 41, Sree Nandini, Sree Vardhini
<b>Karnataka</b>	H 41, H 42,, Rajendra Sakarkand 5, Rajandra Sakarkand 47
<b>Maharashtra</b>	H 42, Rajandra Sakarkand 35, Varsha
<b>Andhra Pradesh</b>	Kiran, Samrat
<b>Bihar</b>	Rajendra Sakarkand 5, Rajendra Sakarkand 35, Rajendra Sakarkand 47
<b>West Bengal</b>	Rajendra Sakarkand 5, Rajendra Sakarkand 35, Rajendera Sakarkand 43.
<b>Assam</b>	Rajendra Sakarkand 35 , Rajendra Sakarkand 43
<b>Uttar Pradesh</b>	VL Sakarkand 6.

### POST HARVEST MANAGEMENT :

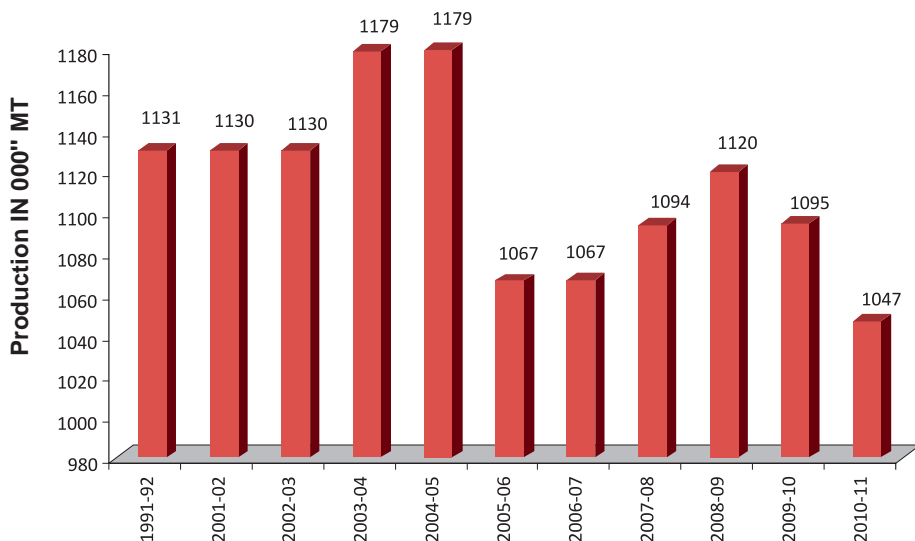
After harvest, tubers are spread in partial shade for 5-6 days, for healing and curing. They should be stored in semi-dark condition in a well-ventilated room. this types of storage invites infestation of pest and diseases. In some part of the country, tubers are stored in a layer of dry sand/soil after curing under ambient condition. For storing, graded tubers free from sweet potato weevil and bruises should be selected. Farmers store the graded tubers by keeping in a pit shade and covering the pit with paddy straw. Finally, the heap is plastered with mud or cow dung slurry.



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF SWEET POTATO

YEAR	AREA (IN 000" HA)	PRODUCTION (IN 000"MT)	PRODUCTIVITY (IN MT/HA)
1991-92	136.5	1130.7	8.3
2001-02	131.9	1130.3	8.6
2002-03	131.9	1130.3	8.6
2003-04	133.1	1179.1	8.9
2004-05	133.3	1179.4	8.8
2005-06	122.8	1066.5	8.7
2006-07	123.0	1067.2	8.7
2007-08	123.0	1094.0	8.9
2008-09	124.0	1120.0	9.0
2009-10	118.9	1094.7	9.1
2010-11	113.0	1047.0	9.3

### Production Trend of Sweet Potato



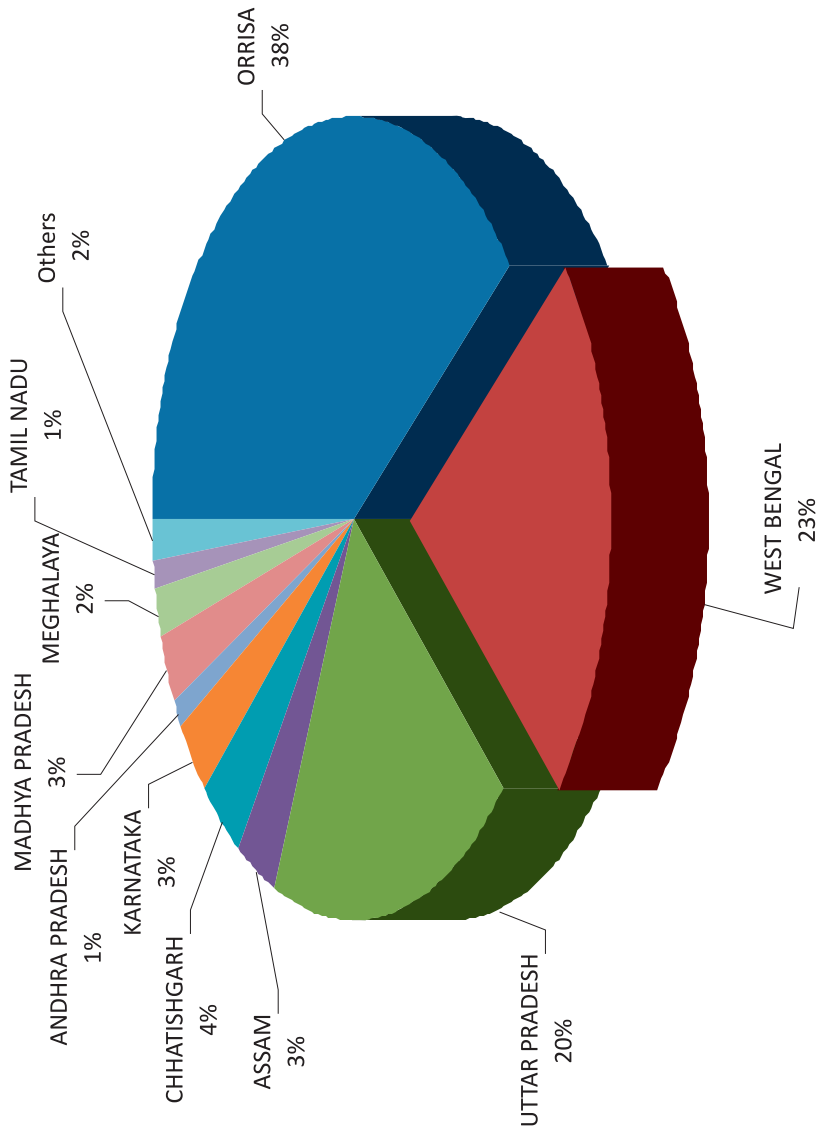
## STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF SWEET POTATO



State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
ORRISA	49.2	417.0	8.5	50.5	438.8	8.7	44.1	410.2	9.3
WEST BENGAL	22.5	231.1	10.3	22.5	231.1	10.3	22.9	235.7	10.3
UTTAR PRADESH	22.7	273.0	12.0	16.8	227.9	13.6	16.8	206.6	12.3
ASSAM	8.7	31.5	3.6	8.9	34.3	3.9	9.1	35.1	3.9
CHHATISHGARH	3.8	33.3	8.8	3.6	32.4	8.9	3.7	36.7	9.9
KARNATAKA	2.8	34.8	12.3	2.4	30.9	12.9	2.6	33.5	12.8
ANDHRA PRADESH	0.7	13.9	20.0	1.3	26.6	20.0	0.5	9.5	20.2
MADHYA PRADESH	4.6	25.7	5.5	4.5	26.0	5.8	5.1	29.7	5.8
MEGHALAYA	5.5	19.2	3.5	5.5	19.2	3.5	5.5	19.2	3.5
TAMIL NADU	1.3	22.4	16.8	0.8	11.5	14.9	0.8	12.4	15.5
Others	2.4	17.7	7.3	2.1	16.0	7.6	2.1	18.0	8.4
<b>TOTAL</b>	<b>124.3</b>	<b>1119.7</b>	<b>9.0</b>	<b>118.9</b>	<b>1094.7</b>	<b>9.2</b>	<b>113.2</b>	<b>1046.6</b>	<b>9.2</b>



## Leading Sweet Potato Producing States (2010-11)



## TAPIOCA

Cassava (*Manihot esculenta*), popularly known as Tapioca, produces more calories/unit area.

**Major Producing Status** : Tamil Nadu, Karnataka and Andhra Pradesh

**Main Varieties** : Co 1, Co 2, Co 3, H 97, H 165, H 226, KMC 1, M 4, Nidhi, Sree Harsha, Sree Prakash, Sree Sahya, Sree Visakhm.

**Latest Production** : 80.76 Lakh Tonnes

### HARVESTING AND POSTHARVEST MANAGEMENT :

The crop is ready 10-11 months after planting. Short-duration varieties can be harvested 6-7 months after planting. Delay in harvesting may result in deterioration in cooking quality of the tubers. High-yielding varieties produce 35-40 tonnes/ha in 10-11 months, whereas short-duration ones (6-7 months) yield 28-30 tonnes/ha.

About 70% of the total cassava production is used as food either directly or in processed form. 'Parboiled chips' is a method of processing cassava tuber for storage. These chips are harder than the lain sundried chips due to the partial gelatinization. They can be stored for a longer period than sun dried chips. 'Sago' is an important food product derived from cassava starch.

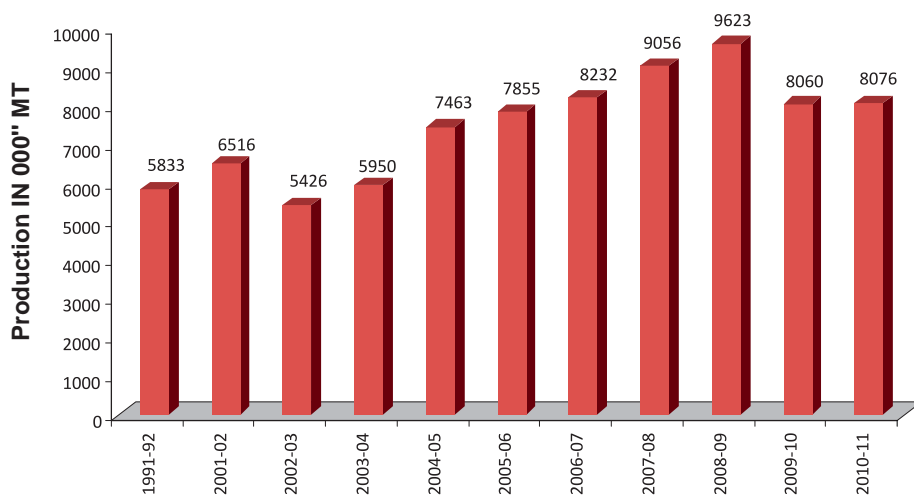




## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF TAPIOCA

YEAR	AREA (IN 000" HA)	PRODUCTION (IN 000"MT)	PRODUCTIVITY (IN MT/HA)
1991-92	250.9	5832.5	23.2
2001-02	238.9	6515.9	27.3
2002-03	207.0	5426.2	26.2
2003-04	220.0	5949.6	27.0
2004-05	244.7	7462.8	30.5
2005-06	244.6	7854.9	32.1
2006-07	255.0	8232.0	32.3
2007-08	270.0	9056.0	33.5
2008-09	280.0	9623.0	34.4
2009-10	231.9	8059.9	34.8
2010-11	221.0	8076.0	36.5

### Production Trend of Tapioca

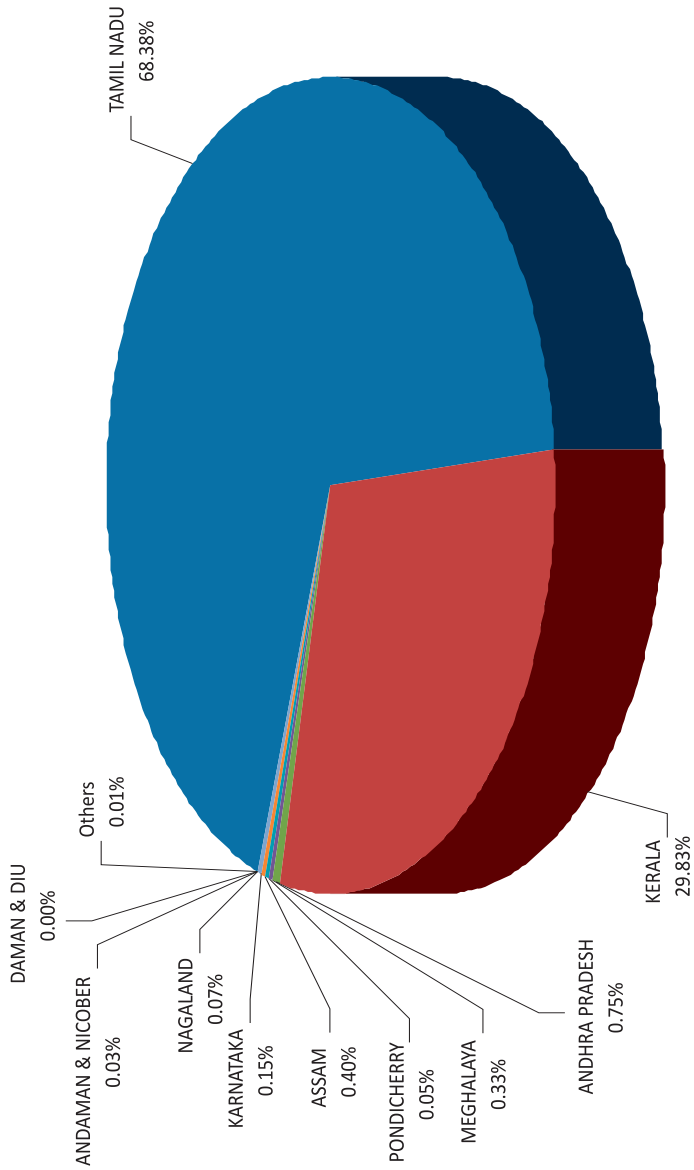


## STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF TAPIOCA

State	AREA IN 000' HA			PRODUCTION IN 000' MT			PRODUCTIVITY HA/MT		
	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
TAMIL NADU	165.1	6664.7	40.4	129.4	5113.6	39.5	134.6	5522.7	41.0
KERALA	86.9	2516.8	29.0	74.9	2525.4	33.7	72.3	2409.0	33.3
ANDHRA PRADESH	17.9	357.5	20.0	16.5	329.5	20.0	3.0	60.9	20.0
MEGHALAYA	4.9	26.4	5.4	4.9	26.4	5.4	4.9	26.4	5.4
PONDICHERRY	0.6	25.0	40.9	0.6	25.0	40.9	0.2	4.0	25.0
ASSAM	2.8	13.5	4.8	3.6	20.8	5.7	4.2	32.0	7.6
KARNATAKA	1.0	13.0	12.8	1.0	13.1	12.8	0.9	12.3	13.4
NAGALAND	1.0	6.0	6.3	1.0	6.0	6.3	1.0	6.0	6.0
ANDAMAN & NICOBAR							0.3	2.2	7.7
DAMAN & DIU	0.02	0.01	0.87	0.02	0.01	0.9	0.0	0.0	0.0
Others							0.1	0.7	14.6
<b>TOTAL</b>	<b>280.2</b>	<b>9623.0</b>	<b>34.35</b>	<b>231.9</b>	<b>8059.8</b>	<b>34.8</b>	<b>221.4</b>	<b>8076.0</b>	<b>36.5</b>



## Leading Tapioca Producing States (2010-11)



## ARECANUT

Arecanut or betnut or supari is chewed both as raw nut and after processing. Owing to the medicinal properties, it is used in treating leucoderma, cough, fits, worms, anaemia and obesity.

**Major Producing States** : Kerala, Karnataka, Assam, West Bengal and Tamil Nadu.

**Latest Production** : 4.78 Lakh Tonnes

**Main Varieties** (Released Arecanut varieties and recommended area)

Variety	Recommended for Area
<b>Mangala</b>	Coastal Kerala and Karnataka
<b>Sumangala</b>	Coastal Kerala and Karnataka
<b>Sree Mangala</b>	Karnataka and Kerala
<b>Mohitnagar</b>	Northern parts of West Bengal, coastal Karnataka and Kerala
<b>CAL 7</b>	Andaman and Nicobar Islands
<b>SAS 1</b>	Hilly area of Karnataka

### POST HARVEST MANAGEMENT

The most important trade types of arecanuts are dried ripe nuts (chali or kotapak), kalipak and scented supari. To prepare chali or kotapak, ripe nuts are dried under the sun for 35-40 days. These are then dehusked and marketed as whole nuts. A mechanical through-flow drier as well as a dehusking device have been developed. The well-known grades of chali in decreasing order of sizes are moti, srivardhan, jamnagar and jinni.

Kalipak is processed in Kerala and Karnataka. Lylon, mainly consumed in Tamil Nadu and Andhra Pradesh. Nuli is a variety made from very tender nuts. Scented supari, popular in north and central India, is of chali and kalipak types.

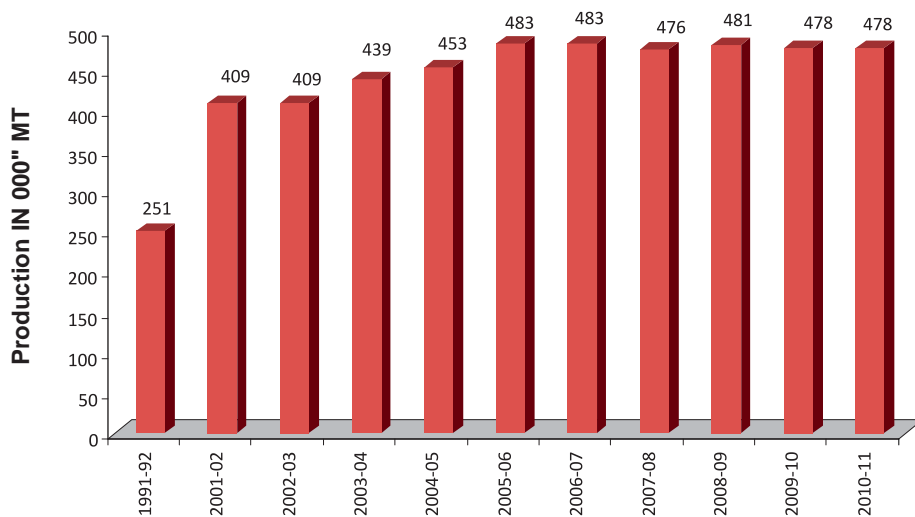
Scented supari, popular in north and central India, is of two types. The first is made from chali and the other from kalipak. Chali and ripe arecanut which leave a large fibrous residue in the mouth are used along with betel leaf and slaked lime.



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF ARECANUT

YEAR	AREA (IN 000" HA)	PRODUCTION (IN 000"MT)	PRODUCTIVITY (IN MT/HA)
1991-92	221.8	251.0	1.1
2001-02	334.8	409.3	1.2
2002-03	334.8	409.3	1.2
2003-04	365.0	439.2	1.2
2004-05	364.3	452.7	1.2
2005-06	381.1	483.1	1.3
2006-07	382.7	483.3	1.3
2007-08	386.6	476.0	1.2
2008-09	387.1	481.3	1.2
2009-10	400.1	478.0	1.2
2010-11	400.1	478.1	1.2

### Production Trend of Arecanut



## CASHEWNUT

It is cultivated widely throughout the tropics for its kernels. In India, it is grown in the west coast, east coast and a few plain areas parts in Karnataka and Madhya Pradesh. The highest productivity is noticed in Maharashtra.

**Latest Production** : 6.75 Lakh Tonnes

### Main Varieties

State	Variety
<b>Andhra Pradesh</b>	BPP 4, BPP 8 and VRI 2
<b>Karnataka</b>	Chintamani 1, Sel. 1, Sel. 2, Ullal 1, Ullal 2, Ullal 3, Ullal 4, UN 50, VRI 2, Vengurla 1 and Vengurla 4.
<b>Kerala</b>	Dhana, K 22-1, Madakkathara 1, Madakkathara 2 and Priyanka
<b>Madhya Pradesh</b>	T No. 40 and Vengurla 4
<b>Maharashtra and Coa</b>	Vengurla 1, Vengurla 4 and Vengurla 6
<b>Orissa</b>	Bhubaneswar 1 and VRI 2
<b>Tamil Nadu</b>	VRI 1, VRI 2 and VRI 3
<b>West Bengal</b>	Jhargram 1

### POST HARVEST MANAGEMENT

Cashewnuts are harvested during February-May. Only fully mature nuts should be harvested. Usually, the nuts are picked after they fall off from the trees. Best quality nuts are obtained where freshly fallen fruits are collected. The apples are removed and the nuts are sun-dried for 2-3 days to reduce moisture from 25% to below 9%. With proper drying, the kernels retain their quality, particularly the flavor.

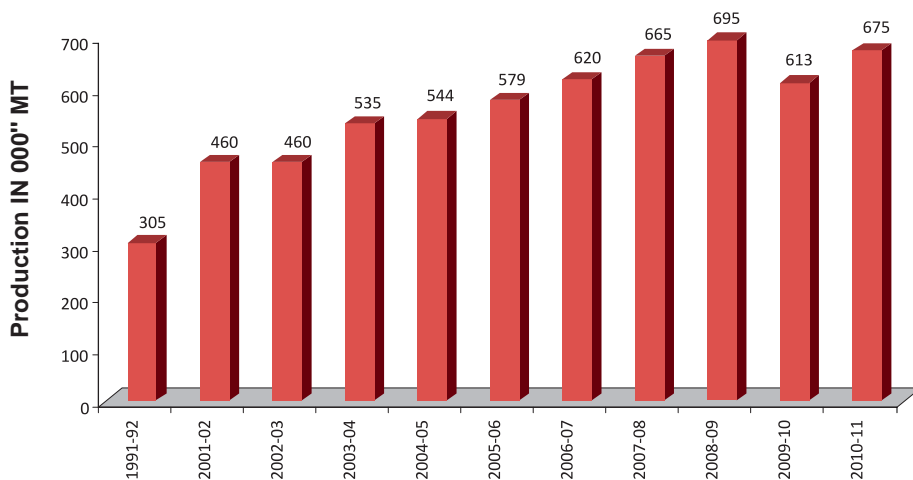
However, if cashew apples are used for processing, it is better to harvest them from the without damaging the apples. The mature nuts sink in water while the immature/unfilled once float. This test could be used to find out whether the nuts are mature or not. The nuts should be collected at weekly interval in the season. Ripe apples for fresh use should be picked almost daily. The area under trees should be weed-free and swept clean to facilitate nut collection.



## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF CASHEWNUT

YEAR	AREA (IN 000" HA)	PRODUCTION (IN 000"MT)	PRODUCTIVITY (IN MT/HA)
1991-92	534	305	0.6
2001-02	740	460	0.6
2002-03	740	460	0.6
2003-04	780	535	0.7
2004-05	820	544	0.7
2005-06	843	579	0.7
2006-07	854	620	0.7
2007-08	868	665	0.8
2008-09	893	695	0.8
2009-10	923	613	0.7
2010-11	953	675	0.7

### Production Trend of Cashewnut



## COCONUT

It is a commercial crop in India. Tamil Nadu, Andhra Pradesh, Karanatak and Maharashtra are the major producing states.

**Latest Production** : 108.40 Lakh Tonnes

### Main Varieties

There are two types of varieties of coconuts, i.e. **Tall and Dwarf.**

**Tall-** West Coast Tall, Laccadive Ordinary, East Coast Tall and Andaman Ordinary.

**Dwarf-** Chowghat Green Dwarf, Chowghat Orange Dwarf, Gangabondam and Gudanjali Dwarf.

### Released coconut hybrids/varieties

Hybrid/Variety	Recommended for
Anandaganga (AoxGB)	Kerala
Chandrakalpa (LOxCOD)	Kerala and Karnataka
Chandrasankara	Kerala, Karnataka and Tamil Nadu
Kerasankara(WCTxCOD)	Kerala and Karnataka
Keraganga(WCTxGB)	Kerala
Lakshaganga (LoxGB)	Kerala
Philippines Ordinary	West Coast Konkan region, east coast of Andhra Pradesh and West Bengal
Pratap (BGR)	Coastal Maharashtra
VHC 1 (ECTxDG)	Tamil Nadu
VHC 2 (ECTxDG)	Tamil Nadu
ECTxGB	Andhra Pradesh

### POST HARVEST MANAGEMENT :

Post Harvest Management of coconut involves its conversion into copra and coconut oil. Coconut husk is used to manufacture coir mat, cushion and other products. Two forms of copra are manufactured. There are copra and milling copra. However, milling copra is manufactured commercially. Milling copra is most popular coconut is southern states. In Kerala, 60-65% of the total coconut produced is converted into milling copra.



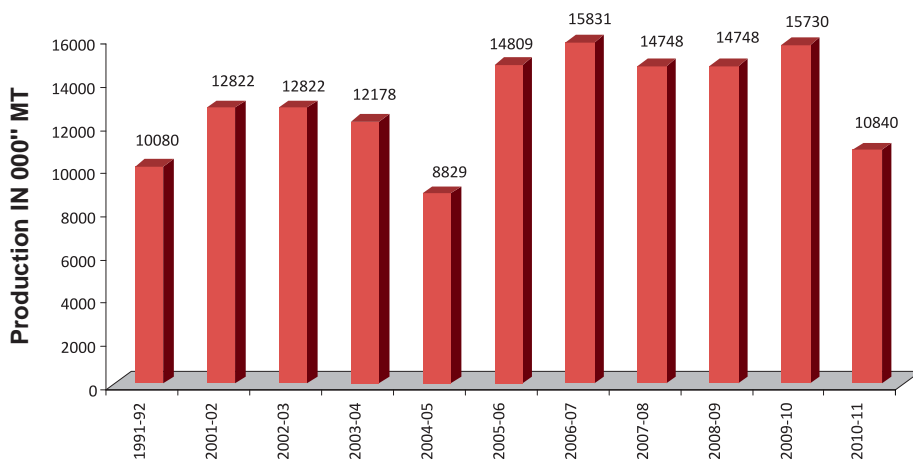


## ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF COCONUT

YEAR	AREA (IN 000" HA)	PRODUCTION (IN MILLION NUTS)	PRODUCTIVITY (IN MILLION TONNES)*	PRODUCTIVITY (IN NUTS / HA
1991-92	1529	10080	6.9	6593
2001-02	1893	12822	8.8	6775
2002-03	1893	12822	8.8	6775
2003-04	1934	12178	8.4	6298
2004-05	1935	8829	6.1	4563
2005-06	2029	14809	10.2	7299
2006-07	1940	15831	10.9	8161
2007-08	1903	14748	10.1	7749
2008-09	1903	14748	10.1	7749
2009-10	1895	15730	10.8	8300
2010-11	1896	10840	10.8	5718

\* Conversion Formula - No. of 1453.24 Nuts/Tonnes

### Production Trend of Coconut



## COCOA

It is an important commercial crop grown the world over. In India, it is being cultivated in Kerala, Karnataka and Tamil Nadu. The current area under cocoa, however, is very small. There is a lot of potential for area expansion as a mixed crop. Kerala accounts for about 76% of the area and 78% of the total production in the country. The remaining area and productions is contributed by Karnataka. It is being grown in some pockets in Tamil Nadu and Andhra Pradesh also.

**Latest Production** : 0.14 Lakh Tonnes

**Main Varieties** : There are three types of cocoa varieties. They are Criollo, Forastero and Trinitaro. Criollo and Forastero are naturally evolved varieties. Criollo types produce best quality cocoa. Forastero types are sturdy. They survive under adverse conditions. Trinitario types have characters of both these types.

### POST HARVEST MANAGEMENT :

The harvested pods are broken for extraction of beans by hitting them on a hard surface. The beans are then extract excluding the placenta. The pods may be kept up to a week before breaking and extracting beans for fermentations. The fermented beans have a moisture content of about 55%. The beans are to be skin dried within 24 hr. after fermentation to avoid mould growth. During drying biochemical oxidation of excess acetic acid from the bans takes place.

Dry cocoa bean can be stored for a long period under suitable conditions. The storage life is decided by the relative humidity and temperature prevailing in the store house. It is found that at 85% relative humidity, the bean moisture contents exceeds 8%. The practice followed at present is to shift the beans to other regions of the country where the conditions are suitable.



## Indian Noni Cultivation State Wise List

S. No.	Name of the State	Planted Area	
		Number of Cultivators	Area (Acre)
1.	Maharashtra	34	166
2.	Karnataka	22	120
3.	Orissa	6	43
4.	Andhra Pradesh	6	30
5.	Gujarat	8	42
6.	Rajasthan	2	10
7.	Tamil Nadu	1	5
8.	Madhya Pradesh	9	45
9.	Andaman & Nikobar Islands	260	192
	<b>Total Cultivation of Noni in India</b>	<b>348</b>	<b>653</b>

**Moni : *Morinda Citrifolia* L.**

**Source:** World Noni Research Foundation





## **CHAPTER-III**

### **EXPORT OF HORTICULTURE PRODUCE**

# EXPORT OF HORTICULTURE PRODUCE IN INDIA

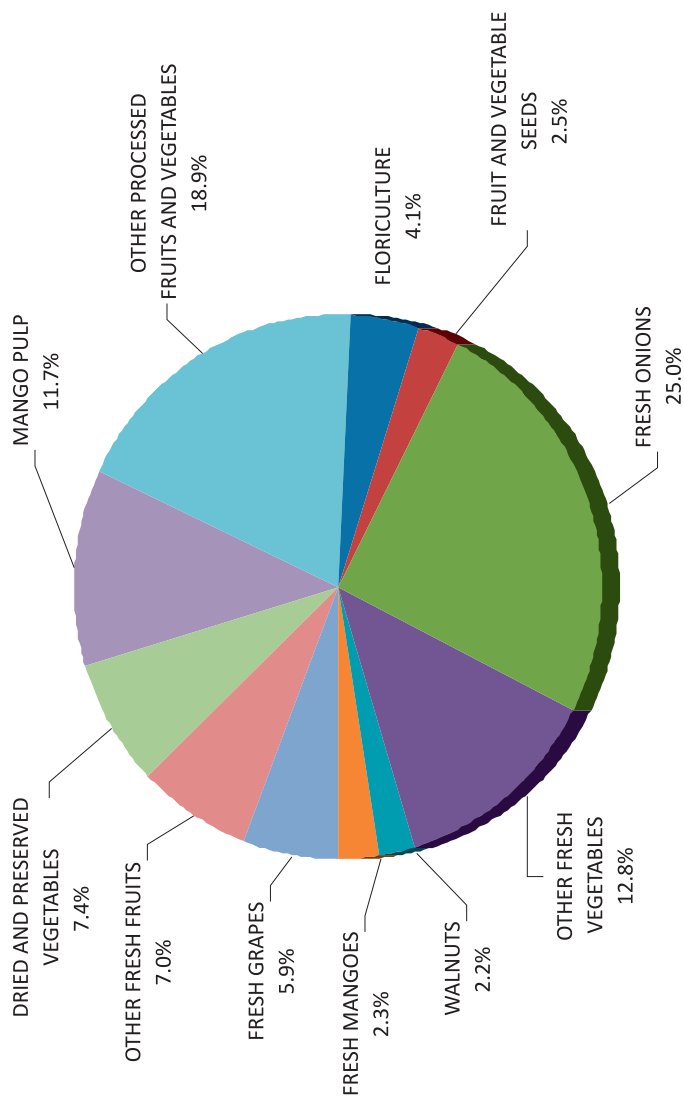
QTY IN : MTS VALUE IN:RS. LAKHS

PRODUCTS	2008-09			2009-10			2010-11		
	Qty	Value		Qty	Value		Qty	Value	
<b>FLORICULTURE</b>									
FLORICULTURE	30798.34	36881.41		26814.52	29446.36		27776.14	28645.41	
FRUIT AND VEGETABLE SEEDS	8535.53	11999.09		8883.86	14507.51		11182.5	17519.52	
<b>Total</b>	<b>39333.87</b>	<b>48880.5</b>		<b>35698.38</b>	<b>43953.87</b>		<b>38958.64</b>	<b>46164.93</b>	
<b>FRESH FRUITS &amp; VEGETABLES</b>									
FRESH ONIONS	1670186.29	182752.21		1664922.39	231942.98		1163472.58	174155.41	
OTHER FRESH VEGETABLES	505285.46	68020.32		419241.35	73185.9		490914.05	89293.61	
WALNUTS	5696.34	14123.63		9073.38	19789.51		5244.58	15650.59	
FRESH MANGOES	83703.18	17071.25		74460.61	20053.98		59220.77	16292.13	
FRESH GRAPES	124627.97	40861.28		131153.61	54533.89		99311.83	41206.32	
OTHER FRESH FRUITS	256768.53	43086.84		260675.43	52283.32		253850.99	48964.74	
<b>Total</b>	<b>2646267.77</b>	<b>365915.53</b>		<b>2559526.77</b>	<b>451789.58</b>		<b>2072014.8</b>	<b>385562.8</b>	
<b>PROCESSED FRUITS AND VEGETABLES</b>									
DRIED AND PRESERVED VEGETABLES	147861.22	49641.51		124613.5	53207.48		110173.91	51697.09	
MANGO PULP	173013.6	75298.9		186197.85	74460.77		171929.43	81400.66	
OTHER PROCESSED FRUITS AND VEGETABLES	387126.42	137179		397978.17	143550.63		340067.97	131635.53	
<b>Total</b>	<b>708001.24</b>	<b>262119.41</b>		<b>708789.52</b>	<b>271218.88</b>		<b>622171.31</b>	<b>264733.28</b>	
<b>GRAND TOTAL</b>	<b>3393602.88</b>	<b>676915.44</b>		<b>3304014.67</b>	<b>766962.33</b>		<b>2733144.75</b>	<b>696461.01</b>	

Source : APEDA Website February 2012



## Percent Share of Major Horticultural Crops (2010-11)



## EXPORT OF APPLE FROM INDIA

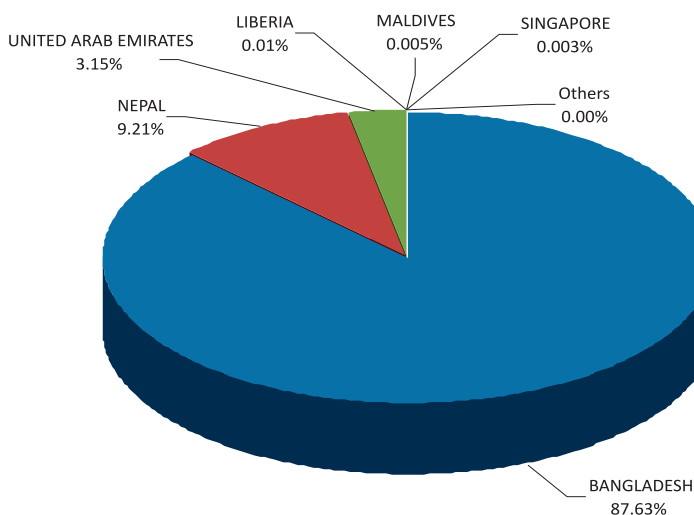
Qty in: Mt  
Value in Lakhs

### APPLES(08081000)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
BANGLADESH	37,072.9	4,370.6	24,791.4	2909.8	43,165.3	5,235.3
NEPAL	5,951.5	649.2	2,062.2	289.1	3,528.2	550.3
UNITED ARAB EMIRATES	88.7	37.2	0.7	0.26	379.0	188.0
LIBERIA	0.0	0.0	0	0	0.741	0.4
MALDIVES	1.0	0.0	0	0	0.246	0.3
SINGAPORE	0	0.0	0.2	0.1	2.061	0.2
Others	1,438.0	165.0	25.8	11.1	0	0
<b>Total</b>	<b>44552.1</b>	<b>5222.0</b>	<b>26880.3</b>	<b>3210.3</b>	<b>47075.6</b>	<b>5974.5</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Apple From India (2010-2011)







## EXPORT OF BANANA FROM INDIA

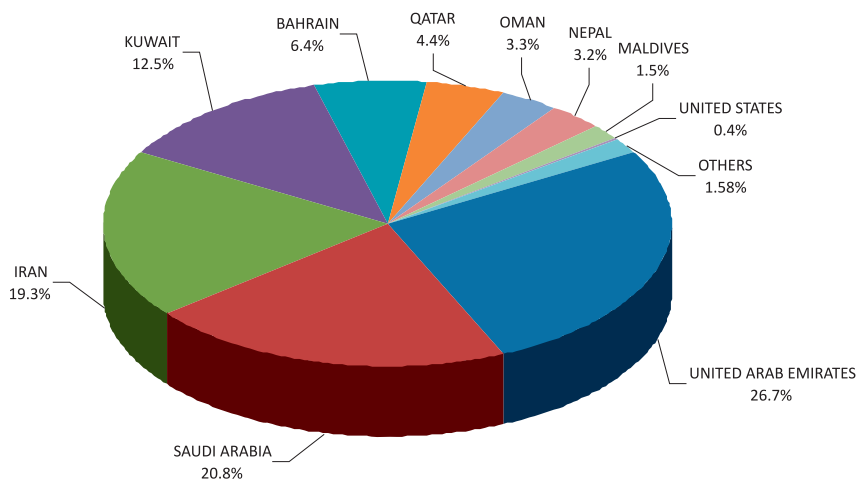
Qty in: Mt  
Value in Lakhs

Product: Bananas fresh(08030000)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED ARAB EMIRATES	10208.1	2475.5	18644.2	4744.4	11229.9	2668.8
SAUDI ARABIA	5123.1	1089.6	9416.2	2426.7	8803.1	2077.7
IRAN	23.0	2.7	5203.7	1167.0	9247.0	1933.4
KUWAIT	1532.8	383.8	5551.8	1616.2	5645.5	1250.9
BAHRAIN	1262.5	445.5	2890.5	1070.7	10905.3	641.6
QATAR	1347.5	318.2	2684.2	843.3	1747.0	437.2
OMAN	947.2	224.6	1977.0	526.2	1440.3	326.9
NEPAL	7855.4	304.0	6558.5	347.3	5386.1	320.7
MALDIVES	1242.0	139.9	648.0	104.9	1046.9	148.8
UNITED STATES	46.1	8.2	105.4	30.6	113.9	40.8
OTHERS	813.9	153.6	639.7	148.3	739.6	158.5
<b>Total</b>	<b>30401.5</b>	<b>5545.5</b>	<b>54319.2</b>	<b>13025.5</b>	<b>56304.6</b>	<b>10005.4</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Banana From India (2010-2011)



## EXPORT OF ORANGE FROM INDIA

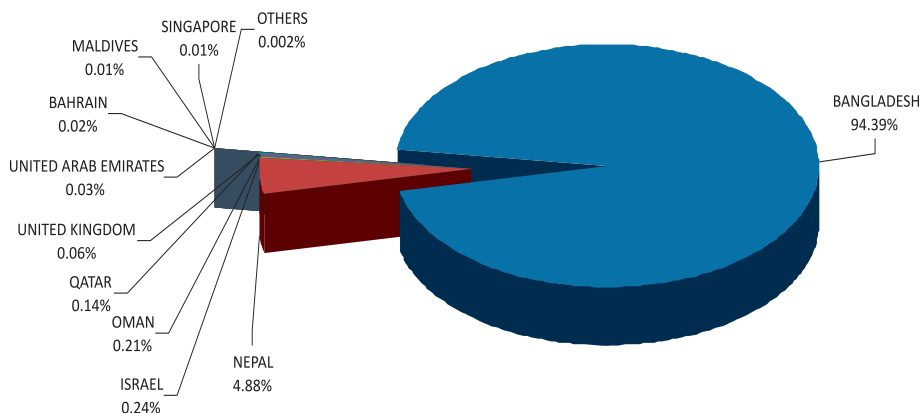
Qty in:MT  
Value in Lakhs

Product: Oranges fresh(08051000)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
BANGLADESH	23027.6	2101.3	21353.2	2147.7	12726.7	2166.8
NEPAL	1994.8	16.3	3235.1	306.9	1159.8	112.1
ISRAEL	0.0	0.0	0.0	0.0	20.0	5.6
OMAN	61.5	8.8	65.2	14.3	34.1	4.9
QATAR	0.0	0.0	0.8	0.1	11.0	3.1
UNITED KINGDOM	14.6	5.0	27.4	1.5	26.1	1.5
UNITED ARAB EMIRATES	3.1	0.4	5.0	1.3	2.3	0.7
BAHRAIN	3.5	0.1	0.0	0.0	0.8	0.4
MALDIVES	6.2	1.0	2.5	0.6	0.3	0.3
SINGAPORE	75.9	24.9	16.2	3.6	0.7	0.2
OTHERS	142.4	162.5	354.6	63.1	0.1	0.1
<b>Total</b>	<b>25329.6</b>	<b>2320.3</b>	<b>25060.0</b>	<b>2539.3</b>	<b>13981.9</b>	<b>2295.6</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Orange from India (2010-2011)





## EXPORT OF GRAPES FROM INDIA

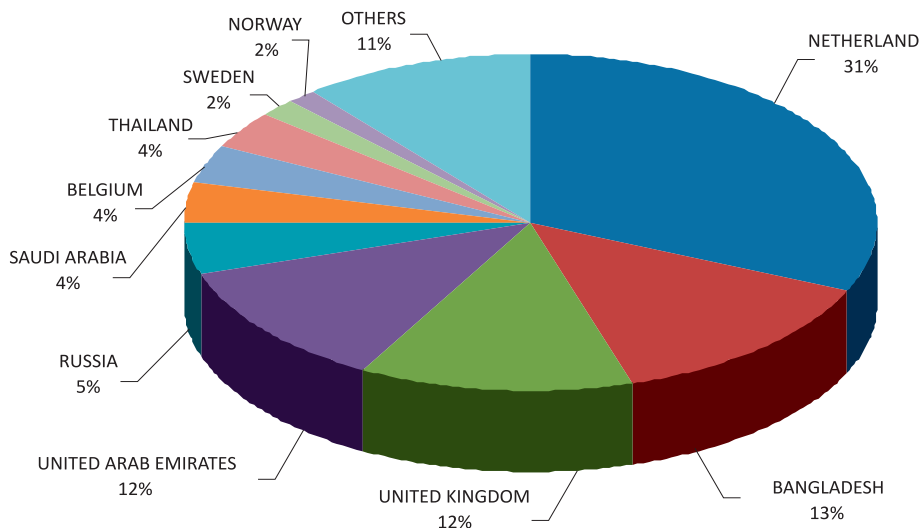
Qty in:MT  
Value in Lakhs

PRODUCT: FRESH GRAPES(08061000)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
NETHERLAND	24340.7	13448.5	28821.9	16755.5	17681.5	11798.1
BANGLADESH	54376.8	6165.9	44419.2	5213.4	38052.0	5142.1
UNITED KINGDOM	12672.5	6559.8	14308.5	8165.7	7550.4	4743.8
UNITED ARAB EMIRATES	10752.7	4149.2	10053.6	4189.1	9545.9	4511.1
RUSSIA	0.0	0.0	745.8	598.2	2368.8	1838.1
SAUDI ARABIA	2558.9	912.8	3656.0	1537.9	3484.3	1421.3
BELGIUM	3641.7	2242.1	2859.6	1756.9	1677.7	1373.3
THAILAND	305.4	184.1	875.6	741.2	1451.5	1335.5
SWEDEN	102.8	62.0	276.7	145.2	932.3	620.9
NORWAY	743.9	595.2	799.2	600.7	665.4	564.2
OTHERS	8637.6	2386.2	10521.5	3402.8	10199.7	4047.1
<b>Total</b>	<b>118132.9</b>	<b>36706.0</b>	<b>117337.5</b>	<b>43106.5</b>	<b>93609.3</b>	<b>37395.4</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Grapes From India (2010-2011)



## EXPORT OF GUAVA FROM INDIA

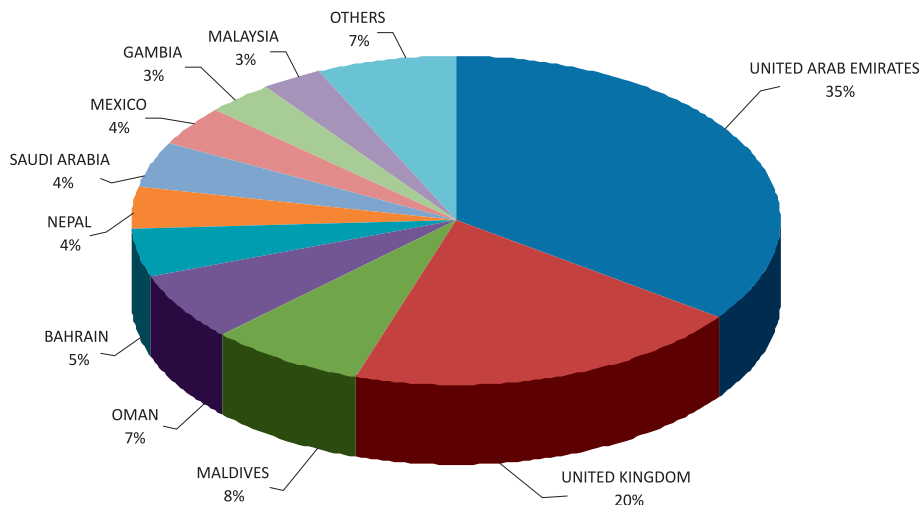
Qty in: MT  
Value in Lakhs

Product: Guava(08045010)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED ARAB EMIRATES	252.4	56.9	44.6	15.5	82.3	22.1
UNITED KINGDOM	23.9	14.9	38.0	19.1	19.0	12.6
MALDIVES	15.9	5.5	10.0	3.2	14.8	4.9
OMAN	112.6	23.4	78.0	17.9	23.9	4.2
BAHRAIN	36.7	8.4	66.5	7.1	42.9	3.0
NEPAL	268.7	19.8	59.7	4.4	37.2	2.8
SAUDI ARABIA	363.5	75.5	15.8	3.2	4.7	2.7
MEXICO	0.0	0.0	0.0	0.0	17.4	2.5
GAMBIA	0.0	0.0	0.0	0.0	12.5	2.1
MALAYSIA	61.7	8.0	1.7	0.4	9.4	1.9
OTHERS	556.1	92.2	202.0	42.7	25.2	4.4
<b>Total</b>	<b>1691.4</b>	<b>304.4</b>	<b>516.3</b>	<b>113.4</b>	<b>289.3</b>	<b>63.3</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Guava from India (2010-2011)





## EXPORT OF LITCHI FROM INDIA

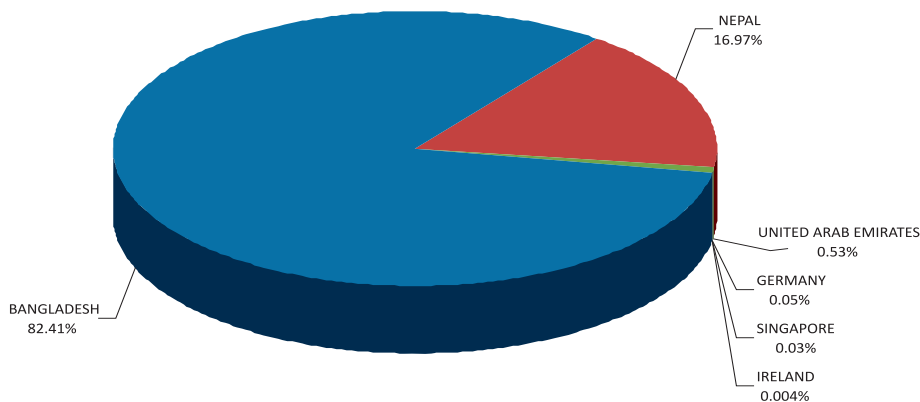
Qty in: MT  
Value in Lakhs

Product: Lichi(08109060)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
BANGLADESH	1254.6	103.4	411.9	39.1	1104.0	112.0
NEPAL	291.9	52.5	91.7	35.0	80.5	23.1
UNITED ARAB EMIRATES	0.0	0.0	40.0	14.7	1.4	0.7
GERMANY	0.0	0.0	1.8	0.1	0.1	0.1
SINGAPORE	0.0	0.0	0.0	0.0	0.1	0.04
IRELAND	0.0	0.0	0.0	0.0	0.01	0.01
<b>Total</b>	<b>1546.5</b>	<b>155.9</b>	<b>545.4</b>	<b>88.9</b>	<b>1186.1</b>	<b>135.9</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Litchi from India (2010-2011)



## EXPORT OF MANGO FROM INDIA

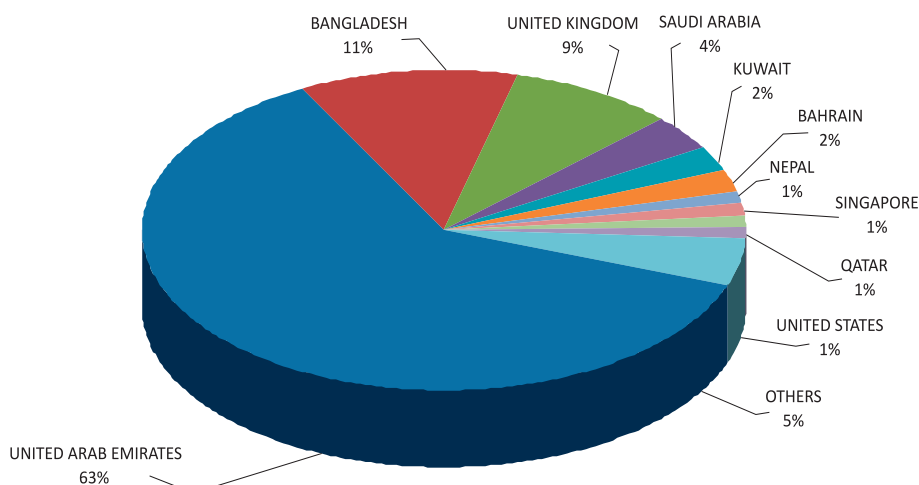
Qty in: MT  
Value in Lakhs

### PRODUCT: FRESH MANGOES(08045020)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED ARAB EMIRATES	24,570.9	7,818.3	25,608.2	10,383.0	25,725.0	10,066.9
BANGLADESH	45,104.5	4,085.7	33,549.9	3,295.8	23,049.7	1,859.4
UNITED KINGDOM	2,527.4	1,403.2	2,958.7	1,746.9	2,723.5	1,453.8
SAUDI ARABIA	2,141.3	836.3	3,147.1	1,345.4	1,592.2	618.0
KUWAIT	546.1	398.8	804.2	520.1	580.3	377.8
BAHRAIN	1,154.6	324.6	1,238.5	402.3	980.7	355.4
NEPAL	4,765.0	375.0	4,058.2	378.6	1,991.3	209.6
SINGAPORE	307.1	156.9	367.6	190.3	387.8	206.0
QATAR	265.4	117.5	659.0	512.8	375.0	199.1
UNITED STATES	202.6	292.9	175.4	256.6	136.7	193.9
OTHERS	2,118.4	1,262.1	1,894.0	1,022.2	1,678.7	752.2
<b>Total</b>	<b>83,703.2</b>	<b>17,071.2</b>	<b>74,460.6</b>	<b>20,054.0</b>	<b>59,220.8</b>	<b>16,292.1</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Mango from India (2010-2011)





## EXPORT OF PAPAYA FROM INDIA

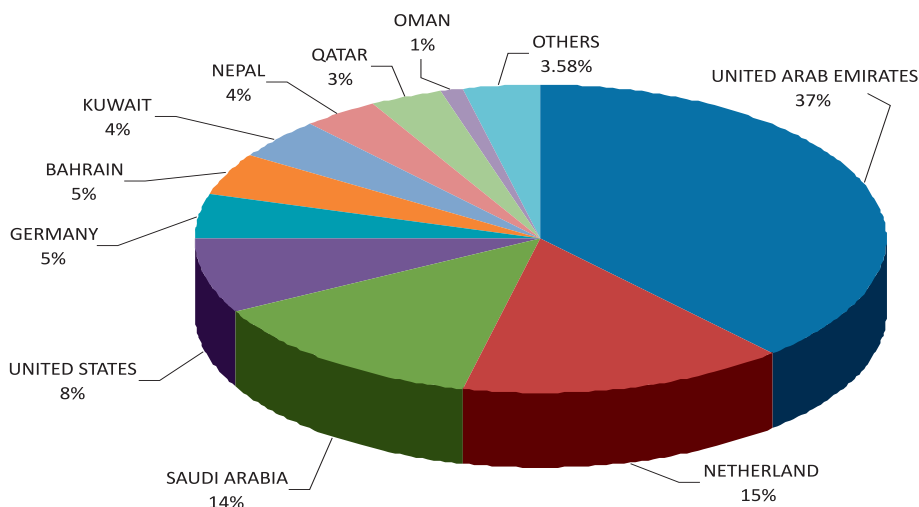
Qty in: MT  
Value in Lakhs

**PRODUCT: Papaya (08072000)**

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED ARAB EMIRATES	3777.4	603.9	7652.0	737.4	6658.7	707.5
NETHERLAND	743.6	248.7	749.6	168.2	659.5	285.3
SAUDI ARABIA	2141.8	328.8	2598.7	308.1	1631.9	254.3
UNITED STATES	90.0	38.6	56.9	13.5	318.9	140.7
GERMANY	402.5	42.9	53.3	4.6	208.0	87.7
BAHRAIN	2173.6	143.7	1835.2	145.6	1496.4	83.8
KUWAIT	1703.4	134.0	1645.8	132.3	1444.9	78.0
NEPAL	1021.1	53.2	983.3	63.4	1004.5	67.2
QATAR	944.6	85.3	1626.7	107.2	1291.3	59.5
OMAN	133.8	22.1	222.9	25.3	158.7	21.8
OTHERS	702.0	108.3	500.7	43.1	363.0	66.4
<b>Total</b>	<b>13833.8</b>	<b>1809.6</b>	<b>17925.0</b>	<b>1748.8</b>	<b>15235.6</b>	<b>1852.2</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Papaya from India (2010-2011)



## EXPORT OF PINEAPPLE FROM INDIA

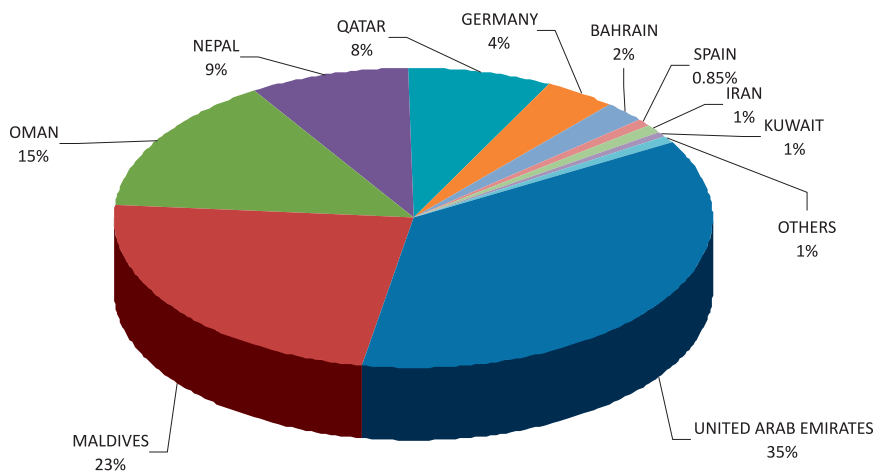
Qty in: MT  
Value in Lakhs

**PRODUCT: Pineapple Fresh (08043000)**

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED ARAB EMIRATES	648.9	53.4	557.8	107.0	451.2	150.1
MALDIVES	295.2	74.4	218.3	46.6	395.3	98.0
OMAN	58.8	11.2	108.3	36.6	137.5	60.7
NEPAL	2232.9	117.8	879.8	58.0	497.8	35.8
QATAR	63.5	7.5	220.3	55.3	212.3	32.2
GERMANY	0.0	0.0	20.0	5.3	30.0	15.8
BAHRAIN	38.1	10.8	49.4	14.3	29.7	9.5
SPAIN	0.0	0.0	10.0	3.5	12.7	3.5
IRAN	0.0	0.0	99.2	22.4	14.7	2.9
KUWAIT	3.1	0.8	39.0	8.6	18.0	2.8
OTHERS	553.0	91.8	260.2	45.0	13.5	3.3
<b>Total</b>	<b>3893.4</b>	<b>367.8</b>	<b>2462.3</b>	<b>402.7</b>	<b>1812.6</b>	<b>414.7</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Pine Apple from India (2010-2011)







## EXPORT OF SAPOTA FROM INDIA

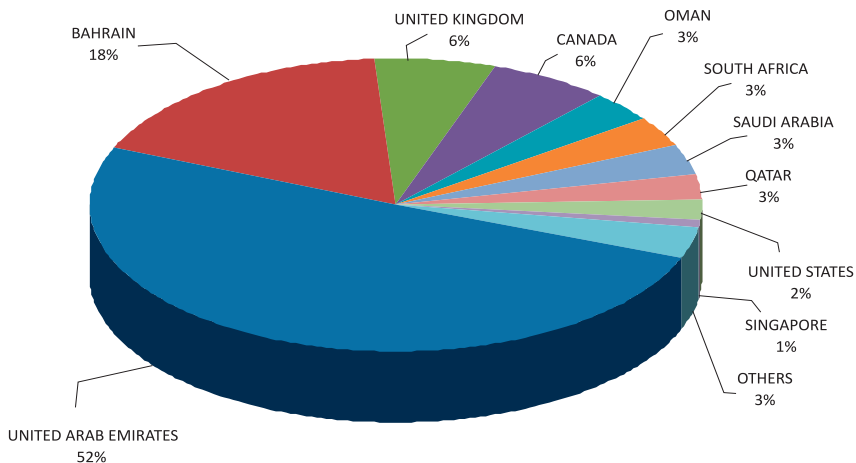
Qty in: MT  
Value in Lakhs

**PRODUCT: Sapota (08109030)**

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED ARAB EMIRATES	1602.3	294.7	2121.0	247.1	788.0	179.0
BAHRAIN	825.6	102.8	839.2	104.3	631.6	61.6
UNITED KINGDOM	429.5	91.7	240.1	34.7	78.2	22.6
CANADA	527.0	32.6	346.1	29.2	264.4	22.1
OMAN	68.5	13.7	102.5	15.7	56.1	11.9
SOUTH AFRICA	0.0	0.0	2.0	0.5	11.7	11.8
SAUDI ARABIA	150.2	22.8	108.0	15.8	49.4	11.5
QATAR	195.6	15.7	249.0	26.5	46.3	10.0
UNITED STATES	126.4	17.2	28.4	6.3	52.7	7.8
SINGAPORE	2.1	0.6	24.8	4.3	16.3	3.2
OTHERS	185.0	15.9	136.8	20.0	44.6	11.6
<b>Total</b>	<b>4112.3</b>	<b>607.9</b>	<b>4197.7</b>	<b>504.5</b>	<b>2039.3</b>	<b>353.3</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Sapota from India (2010-2011)



## EXPORT OF CABBAGE FROM INDIA

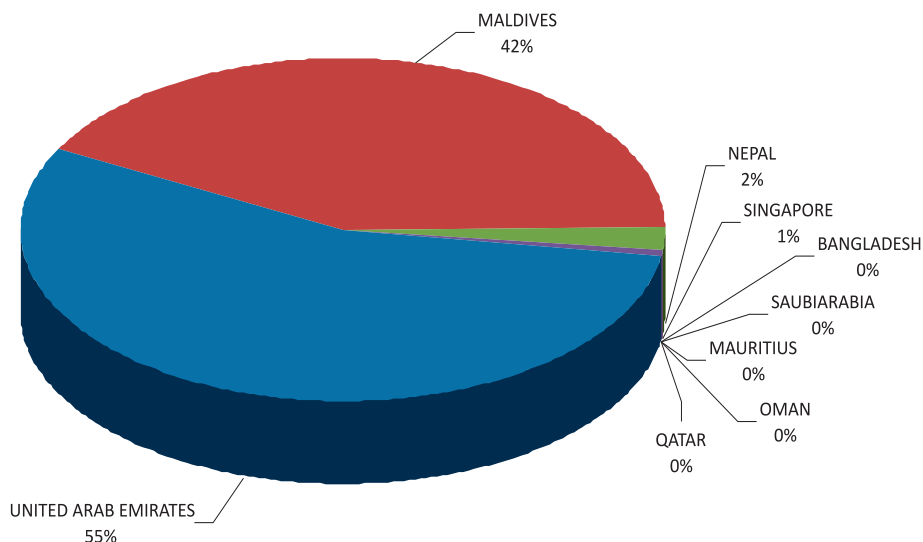
Qty in: MT  
Value in Lakhs

Product: Cabbage (07051100)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED ARAB EMIRATES	1420.9	86.4	724.7	63.9	168.1	25.2
MALDIVES	201.2	11.6	77.0	7.8	214.9	19.2
NEPAL	22.5	1.3	21.3	1.1	20.7	0.9
SINGAPORE	0.0	0.0	0.0	0.0	1.2	0.3
BANGLADESH	0.0	0.0	13.0	0.6	0.0	0.0
MAURITIUS	144.5	34.6	0.0	0.0	0.0	0.0
OMAN	0.0	0.0	8.8	0.9	0.0	0.0
QATAR	0.2	0.0	0.0	0.0	0.0	0.0
SAUBIARABIA	0.0	0.0	3.0	0.5	0.0	0.0
<b>Total</b>	<b>1789.2</b>	<b>133.9</b>	<b>847.9</b>	<b>74.8</b>	<b>404.9</b>	<b>45.6</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Cabbage from India (2010-2011)





## EXPORT OF CAULIFLOWER FROM INDIA

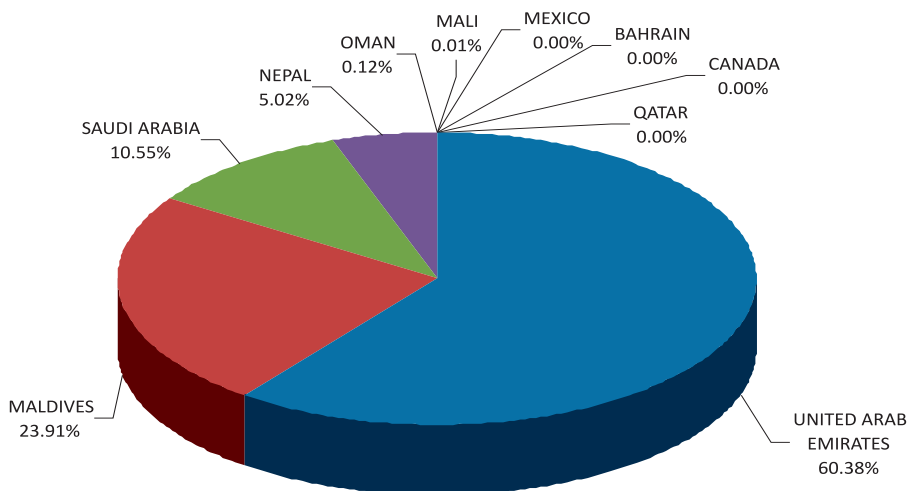
Qty in: MT  
Value in Lakhs

Product: Cauliflowers(07041000)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED ARAB EMIRATES	24.2	0.4	1,197.5	72.7	519.7	20.0
MALDIVES	26.2	2.1	362.7	12.9	208.0	7.9
SAUDI ARABIA	103.9	4.7	33.0	2.1	78.1	3.5
NEPAL	113.7	4.1	78.5	3.1	22.8	1.7
OMAN	0.0	0.0	0.0	0.0	1.2	0.0
MALI	0.0	0.0	0.1	0.0	0.1	0.0
MEXICO	0.0	0.0	0.0	0.0	0.0	0.0
BAHRAIN	0.0	0.0	0.1	0.0	0.0	0.0
CANADA	16.0	4.3	0.0	0.0	0.0	0.0
QATAR	0.7	0.3	2.1	0.0	0.0	0.0
<b>Total</b>	<b>284.6</b>	<b>15.9</b>	<b>1,674.1</b>	<b>90.8</b>	<b>829.8</b>	<b>33.2</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Cauliflower from India (2010-2011)



## EXPORT OF ONION FROM INDIA

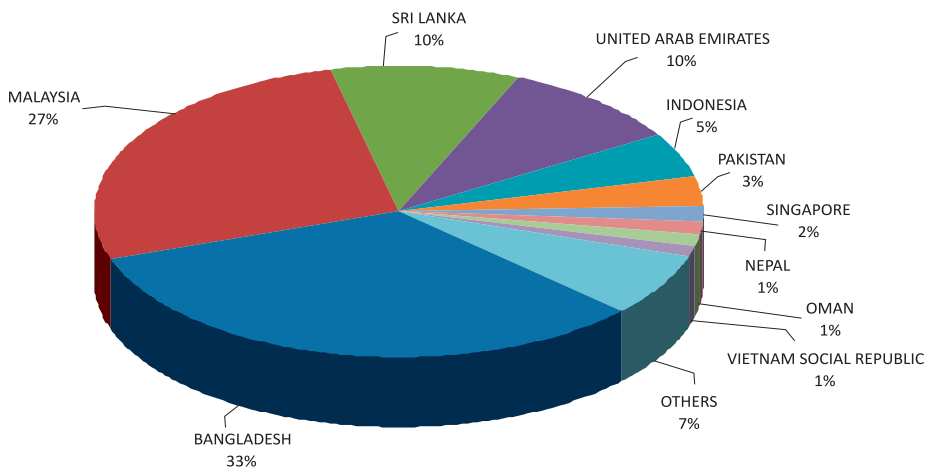
Qty in: MT  
Value in Lakhs

Product: Onions (07031010)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
BANGLADESH	685447.9	73571.5	764102.6	112620.4	391550.2	57233.4
MALAYSIA	283892.8	31928.0	303137.8	14329.5	273232.7	46343.5
SRI LANKA	152197.6	15884.2	129328.0	19304.3	114450.4	17599.2
UNITED ARAB EMIRATES	189678.4	21535.4	147165.1	17904.4	126228.8	16627.7
INDONESIA	12726.0	1350.2	9607.4	1329.8	43061.3	9000.0
PAKISTAN	128121.0	15761.3	101995.9	10771.5	45689.1	5417.6
SINGAPORE	24302.5	2642.7	24622.1	3435.1	20876.3	2920.6
NEPAL	40668.6	2638.0	38985.4	3181.6	29977.6	2530.4
OMAN	11977.4	1179.2	19834.9	2343.7	17988.6	2266.2
VIETNAM SOCIAL REPUBLIC	24.5	2.5	3904.1	607.2	15281.5	2077.5
OTHERS	141,149.3	16,259.3	122,239.2	46,115.4	85,135.9	12,139.4
<b>Total</b>	<b>1670186.3</b>	<b>182752.2</b>	<b>1664922.4</b>	<b>231943.0</b>	<b>1163472.6</b>	<b>174155.4</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Onion from India (2010-2011)





## EXPORT OF PEAS FROM INDIA

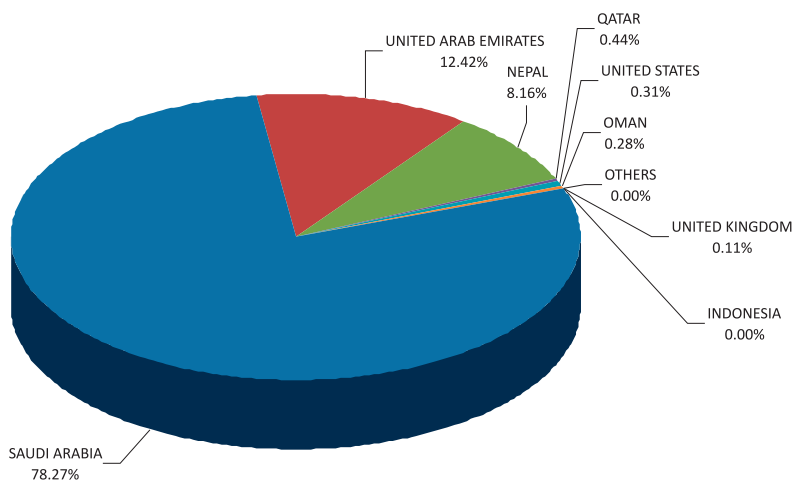
Qty in: MT  
Value in Lakhs

Product: Peas(07081000)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
SAUDI ARABIA	1479.9	549.1	441.0	214.1	498.1	206.4
UNITED ARAB EMIRATES	341.8	109.2	155.6	53.1	118.3	32.8
NEPAL	168.5	13.4	166.5	67.1	367.1	21.5
QATAR	10.3	2.5	0.0	0.0	3.0	1.2
UNITED STATES	294.4	96.0	0.0	0.0	0.9	0.8
OMAN	49.9	4.0	4.7	0.3	16.2	0.7
UNITED KINGDOM	0.0	0.0	0.0	0.0	1.1	0.3
INDONESIA	0.0	0.0	0.0	0.0	0.0	0.0
OTHERS	174.6	21.1	502.9	19.0	0.0	0.0
<b>Total</b>	<b>2519.4</b>	<b>795.4</b>	<b>1270.7</b>	<b>353.7</b>	<b>1004.6</b>	<b>263.7</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Pea from India (2010-2011)



## EXPORT OF TOMATO FROM INDIA

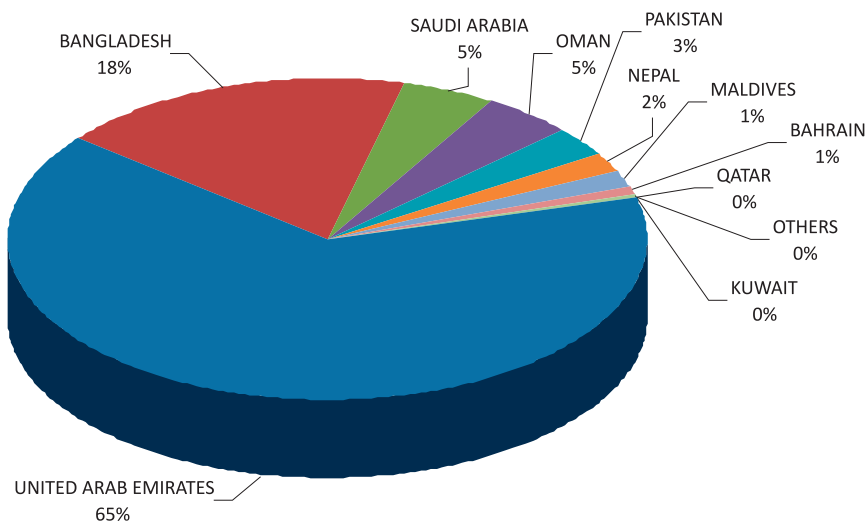
Qty in: MT  
Value in Lakhs

Product: Tomatoes (07020000)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED ARAB EMIRATES	11617.3	1425.2	10153.4	1145.6	33902.9	7468.6
BANGLADESH	9166.4	848.6	17020.5	1674.8	19711.9	2048.2
SAUDI ARABIA	250.0	35.9	0.0	0.0	2261.5	539.4
OMAN	205.8	36.8	283.2	35.3	2203.6	532.0
PAKISTAN	100764.7	10172.0	74716.1	7284.2	3708.9	340.6
NEPAL	1434.3	111.4	2570.2	121.9	3266.6	227.3
MALDIVES	483.3	53.1	942.3	55.5	2447.7	169.8
BAHRAIN	112.5	15.0	1.0	0.2	442.3	102.2
KUWAIT	155.8	23.1	0.0	0.0	125.9	29.9
QATAR	45.7	6.6	0.0	0.0	19.6	8.0
OTHERS	381.5	38.5	174.9	7.3	92.8	14.6
<b>Total</b>	<b>124617.2</b>	<b>12766.2</b>	<b>105861.6</b>	<b>10325.0</b>	<b>68183.7</b>	<b>11480.6</b>

Source: Apeda Website February 2012

Country-Wise share of Exports of Tomato (2010-2011)





## EXPORT OF POTATO FROM INDIA

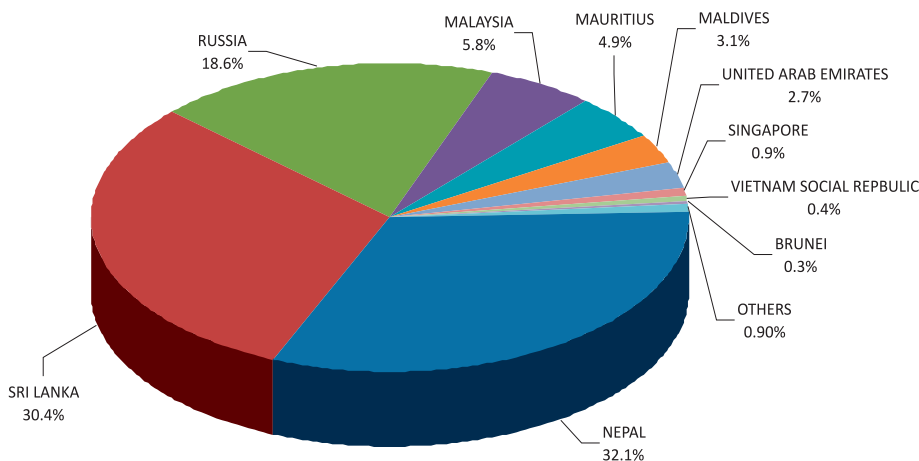
Qty in: MT  
Value in Lakhs

Product: Potatoes fresh (07019000)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
NEPAL	74329.4	2825.5	63986.2	4069.8	107838.1	4948.3
SRI LANKA	10328.4	1180.3	8342.6	1449.3	34744.8	4687.5
RUSSIA	0.0	0.0	0.0	0.0	15325.3	2862.2
MALAYSIA	773.4	68.5	1051.9	93.2	8144.4	892.3
MAURITIUS	2627.8	279.7	2638.8	441.6	4871.2	758.5
MALDIVES	2936.3	218.7	3358.5	237.2	6019.0	478.8
UNITED ARAB EMIRATES	5467.3	394.8	240.5	63.4	3389.7	416.4
SINGAPORE	1519.1	96.3	525.5	45.2	1716.5	134.0
VIETNAM SOCIAL REPUBLIC	0.0	0.0	109.5	11.1	448.0	66.9
BRUNEI	0.0	0.0	151.1	22.7	254.7	40.2
OTHERS	86979.2	6440.0	13683.2	987.2	1524.6	139.0
<b>Total</b>	<b>184961.0</b>	<b>11503.7</b>	<b>94087.9</b>	<b>7420.5</b>	<b>184276.5</b>	<b>15424.1</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Potato from India (2010-2011)



## EXPORT OF SWEET POTATO FROM INDIA

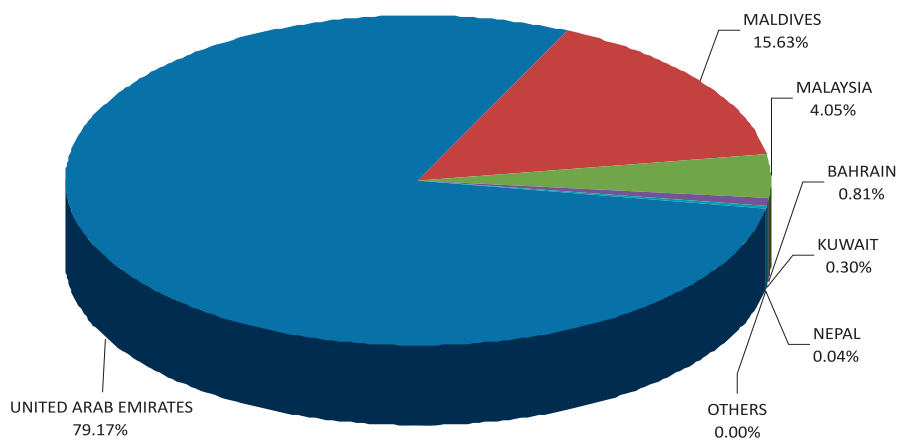
Qty in: MT  
Value in Lakhs

Product: Sweet potatoes (07142000)

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED ARAB EMIRATES	664.1	69.5	388.7	43.6	554.5	61.2
MALDIVES	146.0	1.0	141.4	10.8	194.7	12.1
MALAYSIA	0.0	0.0	0.0	0.0	13.0	3.1
BAHRAIN	0.0	0.0	2.4	0.3	4.6	0.6
KUWAIT	0.0	0.0	0.0	0.0	2.0	0.2
NEPAL	9.3	0.7	0.0	0.0	0.2	0.03
OTHERS	59.8	10.0	17.9	1.4	0.0	0.0
<b>Total</b>	<b>879.2</b>	<b>81.2</b>	<b>550.4</b>	<b>56.1</b>	<b>769.0</b>	<b>77.3</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Sweet Potato (2010-2011)







## EXPORT OF FLOWERS FROM INDIA

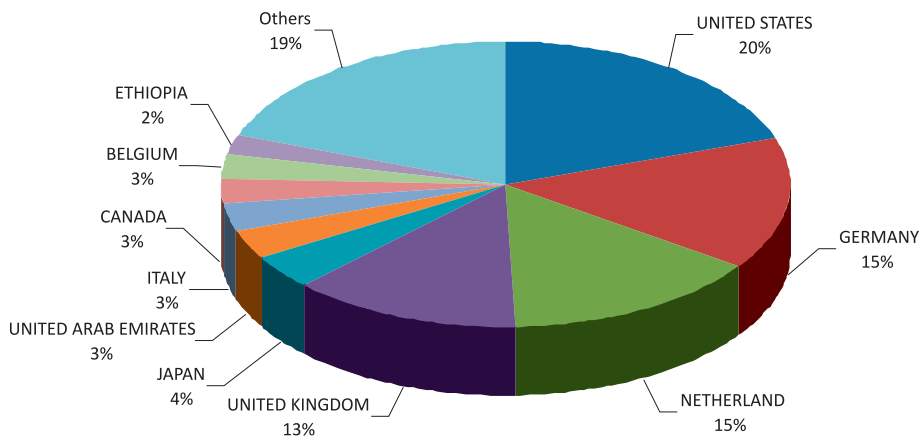
Qty in: Mt  
Value in Lakhs

Product : Flowers

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
UNITED STATES	7,111.5	7,213.5	5,871.1	5,305.6	7,153.9	5,686.5
GERMANY	3,589.8	3,966.3	3,688.2	4,065.0	4,511.6	4,280.6
NETHERLAND	4,640.2	5,987.2	3,146.8	4,217.9	2,989.5	4,162.0
UNITED KINGDOM	4,369.7	4,284.5	3,707.3	3,788.3	4,116.0	3,761.8
JAPAN	965.3	1,791.0	970.9	1,558.7	576.7	1,151.9
UNITED ARAB EMIRATES	762.7	991.8	971.7	1,071.1	812.8	959.1
ITALY	1,268.3	1,373.3	1,453.7	814.4	1,234.0	856.8
CANADA	782.4	1,135.3	534.1	769.0	532.8	798.4
BELGIUM	1,084.3	845.5	470.2	484.1	762.0	774.3
ETHIOPIA	99.0	1,657.0	706.2	1,746.7	69.1	633.5
Others	6,125.4	7,636.0	5,294.4	5,625.6	5,017.8	5,580.5
<b>Total</b>	<b>30,798.3</b>	<b>36,881.4</b>	<b>26,814.5</b>	<b>29,446.4</b>	<b>27,776.2</b>	<b>28,645.4</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Flowers from India (2010-2011)



## EXPORT OF FRUITS & VEGETABLES SEED FROM INDIA

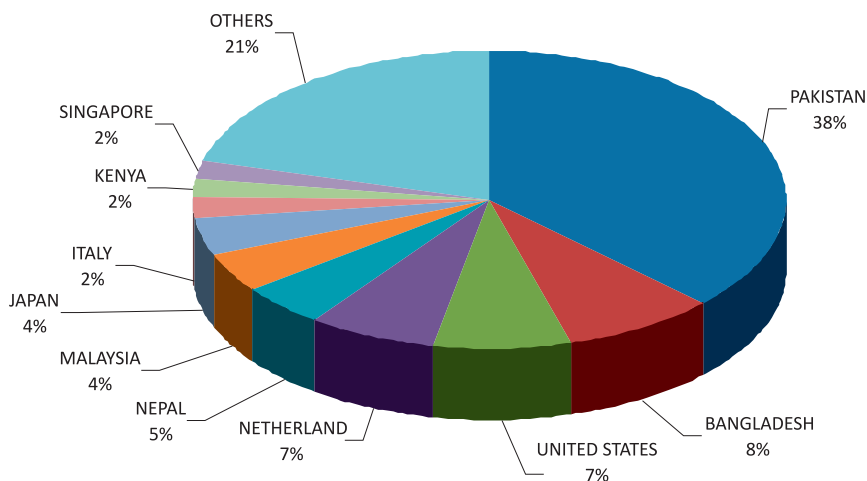
Qty in: Mt  
Value in Lakhs

### Product: Fruit and Vegetable Seeds

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
PAKISTAN	3,767.9	2,660.4	3,867.7	4,126.5	5,813.6	6,540.2
BANGLADESH	1,238.8	1,109.7	1,444.3	1,048.8	2,031.8	1,453.6
UNITED STATES	91.1	1,350.2	128.3	1,319.0	129.9	1,291.6
NETHERLAND	81.1	1,098.2	132.8	1,524.5	82.4	1,219.4
NEPAL	121.7	148.3	369.2	280.4	361.2	841.7
MALAYSIA	81.3	430.8	163.8	648.3	94.6	736.8
JAPAN	101.9	847.1	96.7	883.8	191.8	718.8
ITALY	160.6	296.8	160.1	440.1	232.8	383.3
KENYA	87.0	189.8	63.2	216.6	74.8	355.0
SINGAPORE	47.3	148.0	26.1	198.2	64.9	342.5
OTHERS	2,756.9	3,720.0	2,431.6	3,821.5	2,104.8	3,636.8
<b>Total</b>	<b>8,535.6</b>	<b>11,999.1</b>	<b>8,883.9</b>	<b>14,507.5</b>	<b>11,182.5</b>	<b>17,519.6</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of F & V Seed from India (2010-2011)





## EXPORT OF WALNUTS FROM INDIA

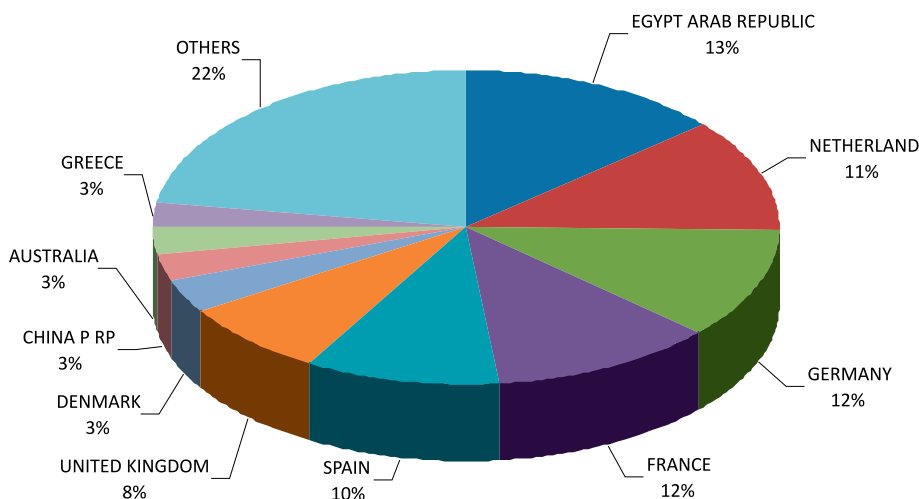
Qty in: Mt  
Value in Lakhs

Product: WALNUTS

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
EGYPT ARAB REPUBLIC	692.5	2,041.2	904.2	2,570.5	571.6	2,123.0
NETHERLAND	681.5	1,808.4	535.5	1,222.1	530.4	1,824.7
GERMANY	640.4	1,589.2	702.5	1,473.6	611.4	1,807.8
FRANCE	514.5	910.2	855.2	1,327.8	627.7	1,806.5
SPAIN	613.0	1,587.0	931.5	2,339.1	515.9	1,549.8
UNITED KINGDOM	260.9	517.5	896.0	1,951.3	413.2	1,245.8
DENMARK	176.0	563.1	163.4	445.3	153.4	490.7
CHINA P RP	14.0	24.1	916.1	1,656.9	169.1	448.8
AUSTRALIA	56.9	147.6	79.3	209.4	140.1	433.9
GREECE	313.2	778.8	393.4	821.6	139.7	399.3
OTHERS	1,733.6	4,156.5	2,696.5	5,771.9	1,372.2	3,520.2
<b>Total</b>	<b>5,696.3</b>	<b>14,123.6</b>	<b>9,073.4</b>	<b>19,789.5</b>	<b>5,244.6</b>	<b>15,650.6</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Walnuts From India (2010-2011)



## EXPORT OF DRIED & PRESERVED VEGIS. FROM INDIA

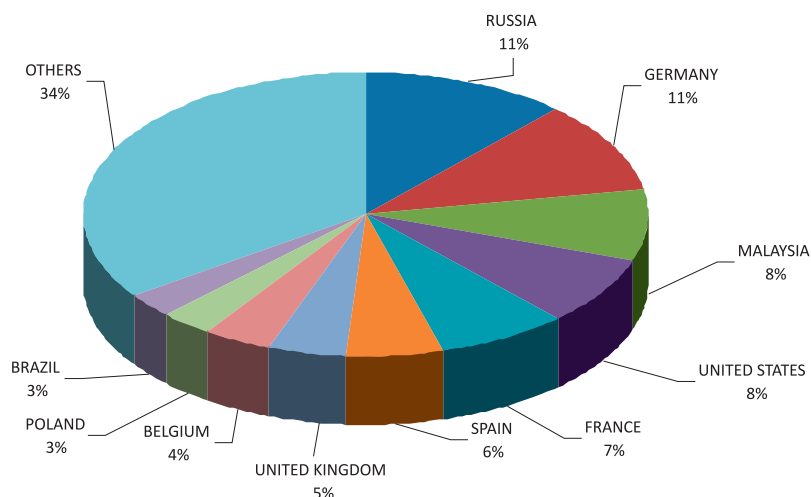
Qty in: Mt  
Value in Lakhs

Product:- Dried & Preserved Vegetables

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
RUSSIA	13,445.9	3,574.3	13,175.6	5,465.5	13,477.0	5,962.2
GERMANY	3,093.8	2,419.2	5,002.8	4,351.7	5,900.0	5,588.8
MALAYSIA	237.2	81.7	356.4	150.1	7,465.1	4,063.4
UNITED STATES	27,128.5	8,888.9	26,467.4	9,061.8	11,164.4	4,037.4
FRANCE	24,241.7	8,341.2	18,098.3	6,124.5	10,693.0	3,869.7
SPAIN	14,581.4	3,967.8	13,010.9	4,032.0	10,175.8	2,884.1
UNITED KINGDOM	4,329.8	3,250.8	3,973.8	2,573.8	3,454.5	2,337.1
BELGIUM	11,652.1	3,684.6	6,071.9	2,597.0	5,088.4	1,987.1
POLAND	705.1	383.1	933.7	650.9	2,110.2	1,613.5
BRAZIL	820.6	577.1	1,161.7	966.3	1,834.1	1,443.5
OTHERS	47,625.1	14,472.8	36,360.9	17,234.0	38,811.5	17,910.3
<b>Total</b>	<b>147,861</b>	<b>49,641.5</b>	<b>124,613.4</b>	<b>53,207.5</b>	<b>110,173.9</b>	<b>51,697.1</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Dried and Preserved Vegetables from India (2010-2011)





## EXPORT OF PRODUCT: MANGO PULP FROM INDIA

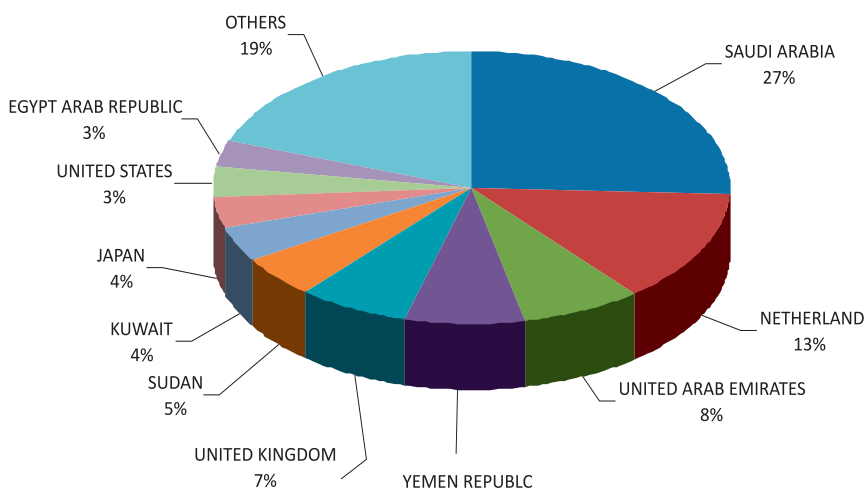
Qty in: Mt  
Value in Lakhs

Product:- Dried & Preserved Vegetables

Country	2008-2009		2009-2010		2010-2011	
	Qty	Value	Qty	Value	Qty	Value
SAUDI ARABIA	53,563.6	20,116.7	63,479.9	22,156.4	48,694.7	21,061.8
NETHERLAND	19,311.3	10,662.7	16,073.4	9,013.3	17,687.1	10,730.4
UNITED ARAB EMIRATES	21,895.7	8,497.8	17,053.9	6,135.9	14,397.8	6,187.3
YEMEN REPUBLIC	15,562.6	5,339.2	21,752.6	6,849.7	15,220.4	6,068.8
UNITED KINGDOM	8,204.0	3,751.6	10,626.2	4,750.3	11,959.6	5,649.0
SUDAN	4,867.9	2,393.9	5,758.4	2,240.5	7,723.1	4,056.2
KUWAIT	7,568.6	2,963.7	11,013.8	3,969.4	7,992.9	3,493.6
JAPAN	4,971.3	3,731.0	2,471.5	1,938.3	3,750.6	2,930.5
UNITED STATES	4,342.9	2,290.6	4,467.1	2,842.3	5,263.9	2,816.9
EGYPT ARAB REPUBLIC	109.1	48.4	972.5	293.8	5,052.5	2,643.6
OTHERS	32,616.7	15,503.5	32,528.7	14,270.9	34,187.0	15,762.6
<b>Total</b>	<b>173,014</b>	<b>75,298.9</b>	<b>186,197.8</b>	<b>74,460.7</b>	<b>171,929.4</b>	<b>81,400.6</b>

Source: Apeda Website February 2012

### Country-Wise share of Exports of Mango Pulp from India (2010-2011)







## **CHAPTER-IV**

### **WORLD SCENARIO**







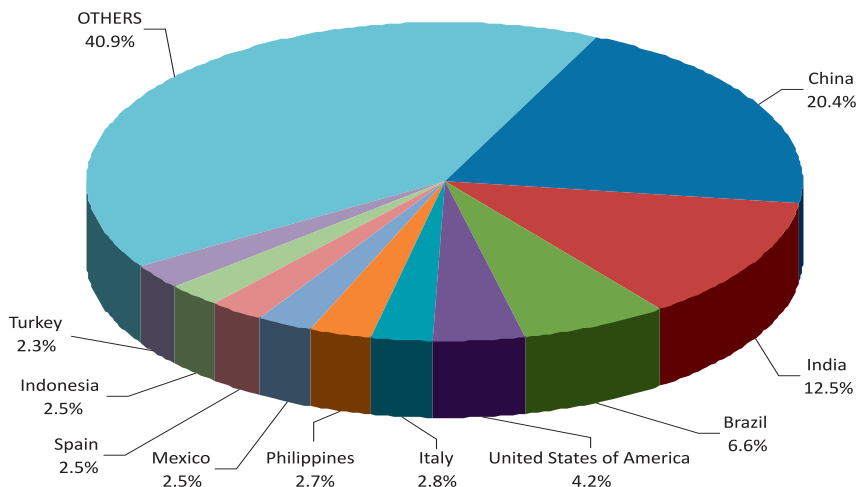


## MAJOR FRUIT PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
China	11402073	122184944	10.7
India	6383000	74878000	11.7
Brazil	2441430	39286781	16.1
United States of America	1145475	25383917	22.2
Italy	1277347	16907895	13.2
Philippines	1155871	16181731	14.0
Mexico	1212387	15255598	12.6
Spain	1562160	15184420	9.7
Indonesia	662800	14867762	22.4
Turkey	1092623	13945604	12.8
OTHERS	26751915	245223757	9.2
<b>world total</b>	<b>55087081</b>	<b>599300409</b>	<b>10.9</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

## Leading Fruit Freshness Countries (2010-11)

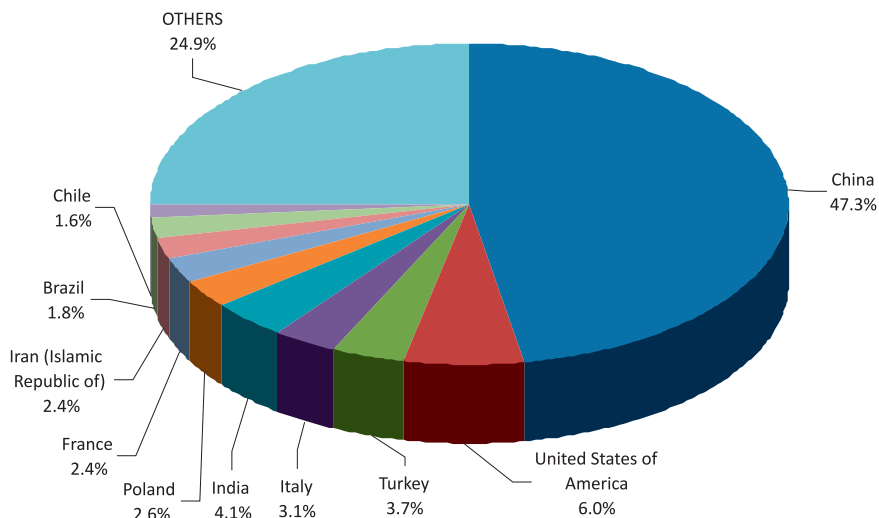


## MAJOR APPLE PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
China	2044631	33265186	16.3
United States of America	139435	4212330	30.2
Turkey	165078	2600000	15.8
Italy	57907	2204970	38.1
India	289000	2891000	10.0
Poland	188245	1858970	9.9
France	39951	1711230	42.8
Iran (Islamic Republic of)	130291	1662430	12.8
Brazil	38563	1275850	33.1
Chile	35029	1100000	31.4
OTHERS	1583403	17515246	11.1
<b>World + (Total)</b>	<b>4711533</b>	<b>70297212</b>	<b>14.9</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Apple Producing Countries (2010-11)



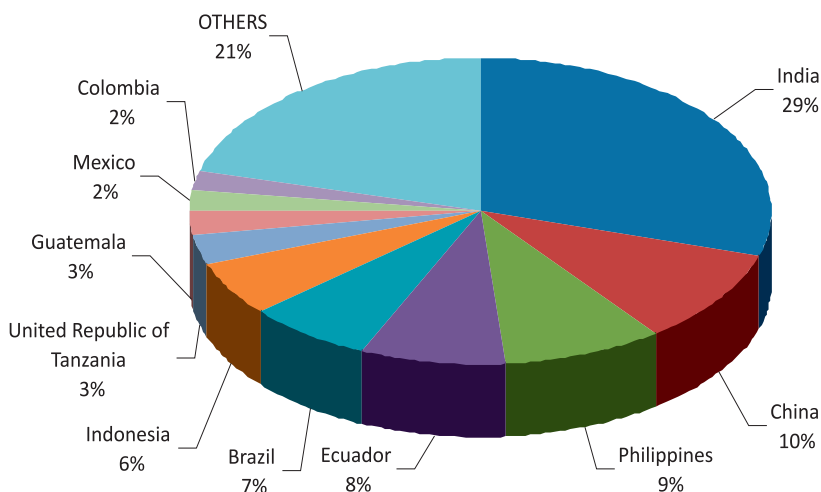


## MAJOR BANANA PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
India	830000	29780000	35.9
China	413900	9848895	23.8
Philippines	449610	9101340	20.2
Ecuador	215647	7931060	36.8
Brazil	486991	6978310	14.3
Indonesia	98000	5814580	59.3
United Republic of Tanzania	450000	2924700	6.5
Guatemala	60700	2621500	43.2
Mexico	76927	2103360	27.3
Colombia	80518	2034340	25.3
OTHERS	1625698	20858434	12.8
<b>World + (Total)</b>	<b>4801991</b>	<b>99996519</b>	<b>20.8</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Banana Producing Countries (2010-11)

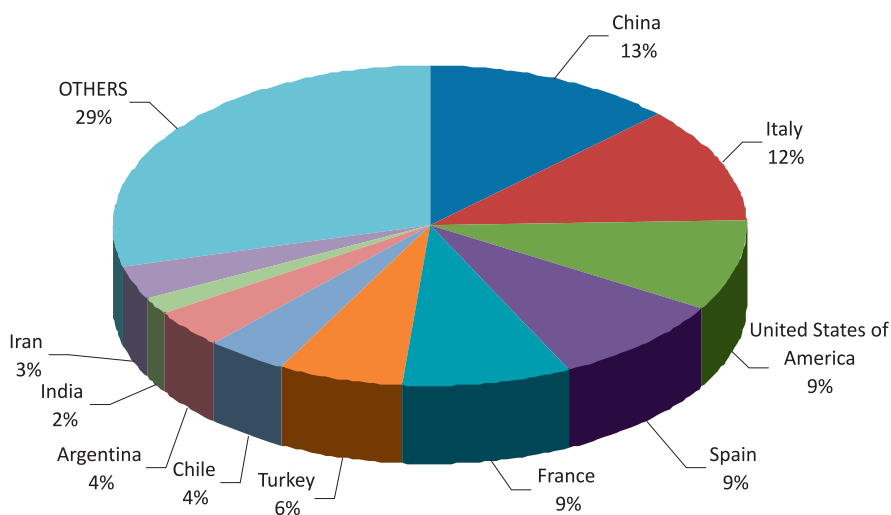


## MAJOR GRAPE PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
China	643900	8653900	13.4
Italy	777500	7787800	10.0
United States of America	382348	6220360	16.3
Spain	1002100	6107200	6.1
France	787133	5848960	7.4
Turkey	477786	4255000	8.9
Chile	188200	2755700	14.6
Argentina	223685	2616610	11.7
India	111000	1235000	11.1
Iran	220836	2255670	10.2
OTHERS	2412798	19586055	8.1
<b>World + (Total)</b>	<b>7227286</b>	<b>67322255</b>	<b>9.3</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Grapes Acountries (2010-11)



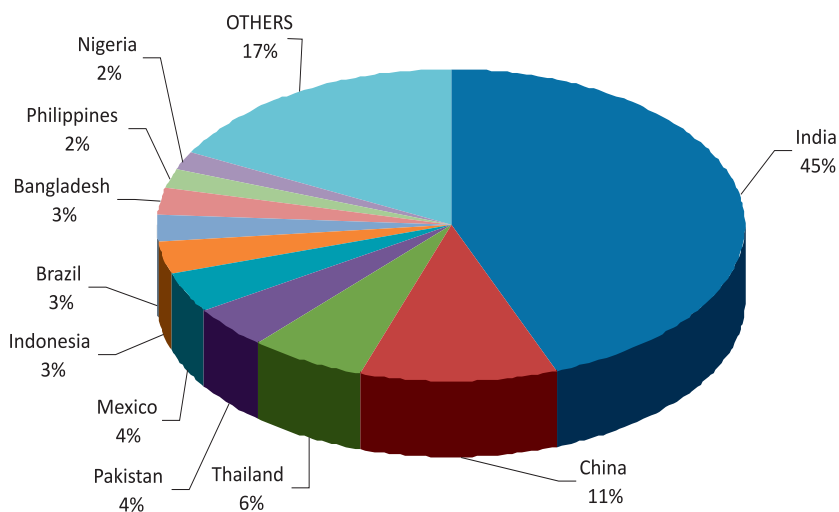


## MAJOR MANGO & GUAVA PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
India	2502000	17650000	7.1
China	465100	4366300	9.4
Thailand	311048	2550600	8.2
Pakistan	166900	1784300	10.7
Mexico	174970	1632650	9.3
Indonesia	135000	1313540	9.7
Brazil	75111	1188910	15.8
Bangladesh	170800	1047850	6.1
Philippines	189437	825676	4.4
Nigeria	114900	790200	6.9
OTHERS	859951	6834550	7.9
<b>World + (Total)</b>	<b>5165217</b>	<b>39984576</b>	<b>7.7</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Mango & Guava Producing Countries (2010-11)

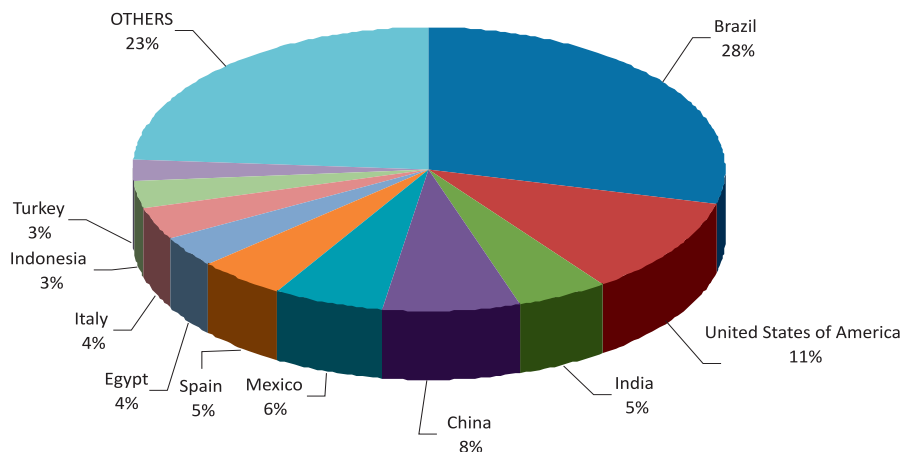


## MAJOR ORANGE PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
Brazil	843088	19112300	22.7
United States of America	260132	7478830	28.8
India	324000	3255000	10.0
China	375789	5003289	13.3
Mexico	334573	4051630	12.1
Spain	127500	3120000	24.5
Egypt	101263	2401020	23.7
Italy	103313	2393660	23.2
Indonesia	58000	2032670	35.0
Turkey	53236	1710500	32.1
OTHERS	1185601	15898367	13.4
<b>World + (Total)</b>	<b>3766495</b>	<b>66457266</b>	<b>17.6</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Orange Producing Countries (2010-11)



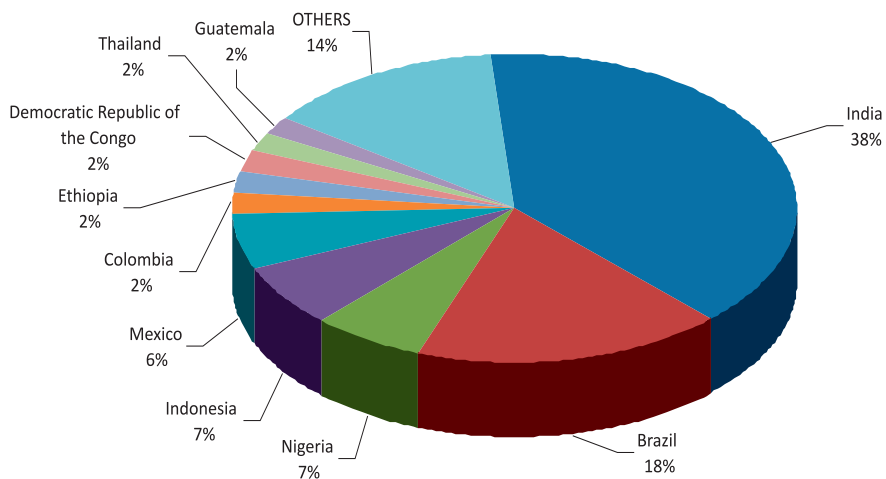


## MAJOR PAPAYA PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
India	106000	4196000	39.6
Brazil	34357	1871300	54.5
Nigeria	93700	703800	7.5
Indonesia	8100	695214	85.8
Mexico	14180	616215	43.5
Colombia	8852	263178	29.7
Ethiopia	10100	232400	23.0
Democratic Republic of the Congo	13406	225772	16.8
Thailand	12366	211594	17.1
Guatemala	3800	200000	52.6
OTHERS	126978	1462036	11.5
<b>World + (Total)</b>	<b>431839</b>	<b>10677509</b>	<b>24.7</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Papaya Producing Countries (2010-11)

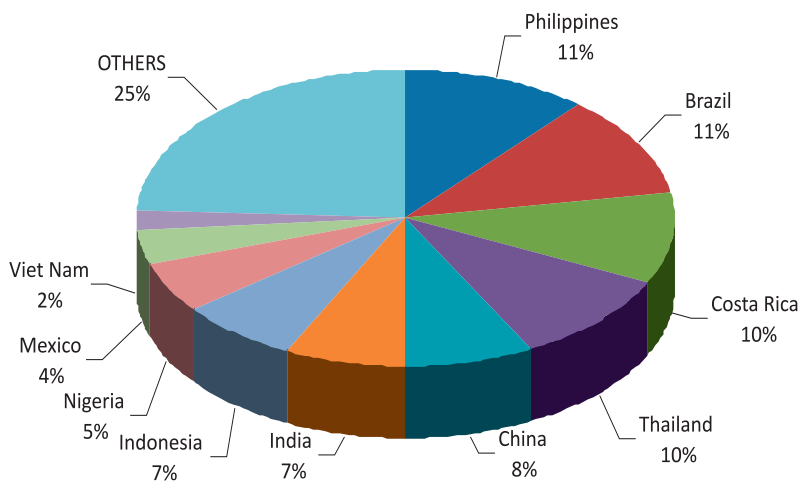


## MAJOR PINEAPPLE PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
Philippines	58549	2169230	37.0
Brazil	54069	2120030	39.2
Costa Rica	45000	1976760	43.9
Thailand	93312	1924660	20.6
China	57300	1518900	26.5
India	89000	1415000	15.9
Indonesia	20000	1390380	69.5
Nigeria	159200	1052000	6.6
Mexico	16604	701746	42.3
Viet Nam	41100	477200	11.6
OTHERS	275707	4667000	16.9
<b>World + (Total)</b>	<b>909841</b>	<b>19412906</b>	<b>21.3</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Pineapple Producing Countries (2010-11)





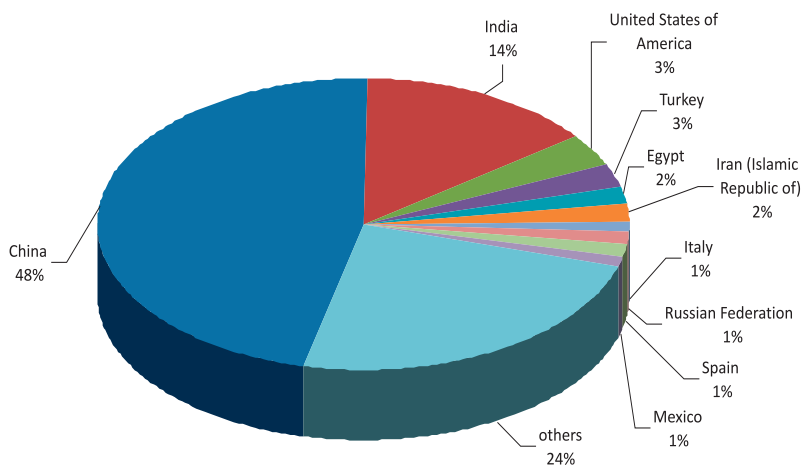


## MAJOR VEGETABLES PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
China	21047200	473062941	22.5
India	8495000	146554000	17.3
United States of America	1123800	35293556	31.4
Turkey	1089805	25831193	23.7
Egypt	758383	19516402	25.7
Iran (Islamic Republic of)	711857	18678490	26.2
Italy	536799	13499277	25.1
Russian Federation	759100	13233450	17.4
Spain	340600	12679700	37.2
Mexico	656124	12125391	18.5
others	18458398	242049765	13.1
<b>World + (Total)</b>	<b>53977066</b>	<b>1012524165</b>	<b>18.8</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Vegetable Producing Countries (2010-11)

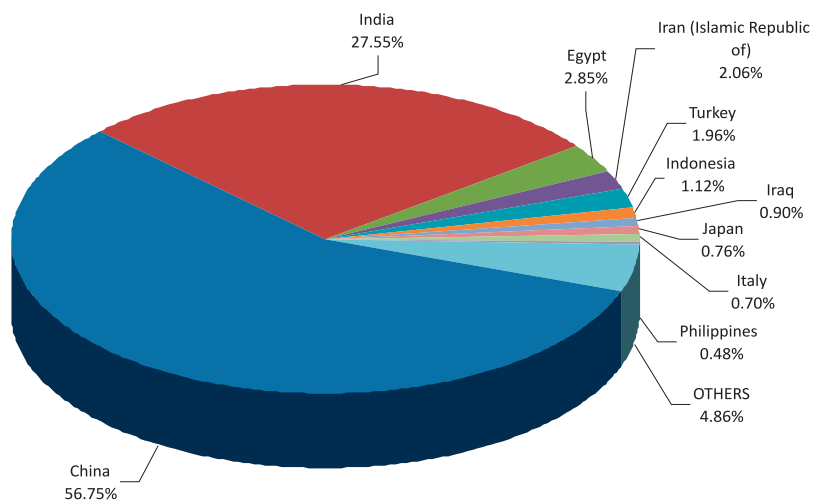


## MAJOR BRINJAL PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
China	731547	24501936	33.5
India	680000	11896000	17.5
Egypt	25017	1229790	49.2
Iran (Islamic Republic of)	29300	888500	30.3
Turkey	28000	846998	30.2
Indonesia	52000	482305	9.3
Iraq	16858	387435	23.0
Japan	10300	330100	32.0
Italy	10741	302551	28.2
Philippines	21426	208252	9.7
OTHERS	123082	2100122	17.1
<b>World + (Total)</b>	<b>1728271</b>	<b>43173989</b>	<b>25.0</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Brinjal Producing Countries (2010-11)



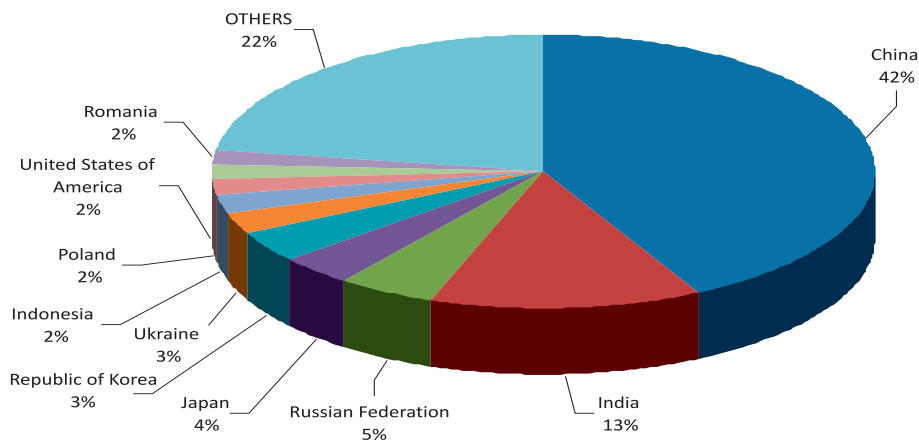


## MAJOR CABBAGE PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
China	739194	25156578	34.0
India	369000	7949000	21.5
Russian Federation	115600	2732510	23.6
Japan	34000	2247700	66.1
Republic of Korea	32794	2035700	62.1
Ukraine	70700	1497400	21.2
Indonesia	67373	1384660	20.6
Poland	33079	1141200	34.5
United States of America	26870	1034050	38.5
Romania	47227	983648	20.8
OTHERS	616645	13392464	21.7
<b>World + (Total)</b>	<b>2152482</b>	<b>59554910</b>	<b>27.7</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Adding Cabbage Producing Countries (2010-11)

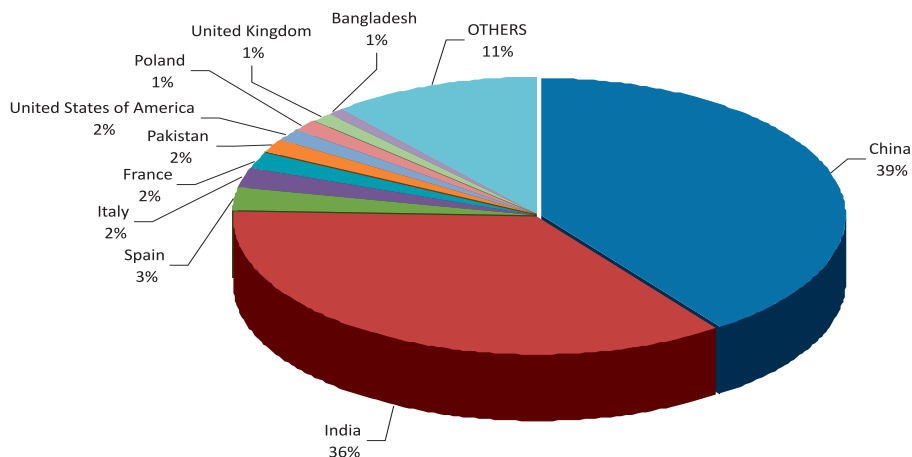


## MAJOR CAULIFLOWER & BROCLI PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
China	391002	7555242	19.3
India	369000	6745000	18.3
Spain	29000	511100	17.6
Italy	17867	427407	23.9
France	26056	370968	14.2
Pakistan	12637	313414	24.8
United States of America	14710	284900	19.4
Poland	15650	252325	16.1
United Kingdom	16496	188300	11.4
Bangladesh	16677	160040	9.6
OTHERS	209498	2122804	10.1
<b>World + (Total)</b>	<b>1118593</b>	<b>18931500</b>	<b>16.9</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Cauliflower & Brocli Producing Countries (2010-11)



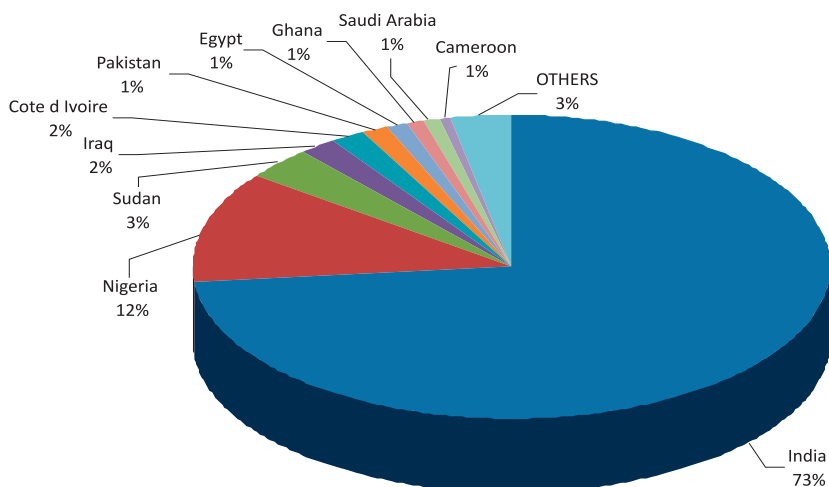


## MAJOR OKRA PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
India	498000	5784000	11.6
Nigeria	455100	955600	2.1
Sudan	21504	256000	11.9
Iraq	19534	151219	7.7
Cote d Ivoire	47000	125000	2.7
Pakistan	14600	113200	7.8
Egypt	6885	86232	12.5
Ghana	21100	82500	3.9
Saudi Arabia	4200	55800	13.3
Cameroon	15500	43000	2.8
OTHERS	44528	243711	5.5
<b>World + (Total)</b>	<b>1147951</b>	<b>7896262</b>	<b>6.9</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Okra Producing Countries (2010-11)

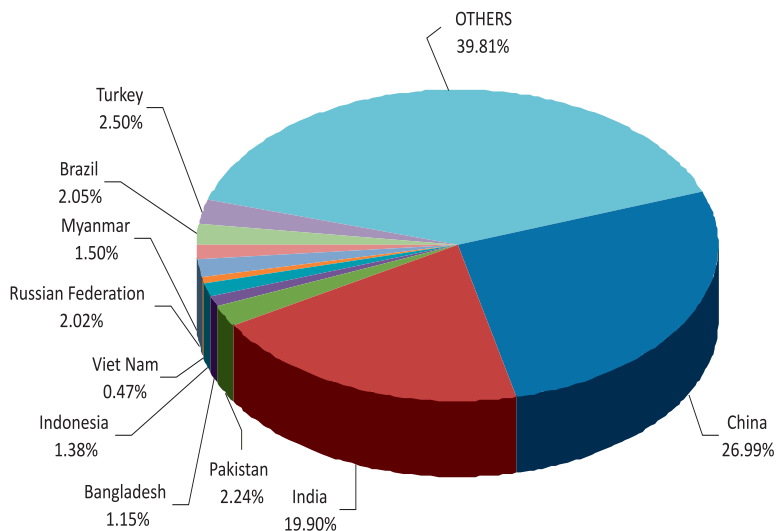


## MAJOR ONION PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
China	930211	20507759	22.0
India	1064000	15118000	14.2
Pakistan	124700	1701100	13.6
Bangladesh	117560	872081	7.4
Indonesia	109468	1048230	9.6
Viet Nam	101700	355300	3.5
Russian Federation	88000	1536300	17.5
Myanmar	78900	1137900	14.4
Brazil	67254	1556000	23.1
Turkey	62688	1900000	30.3
OTHERS	1227024	30244539	24.6
<b>World + (Total)</b>	<b>3971505</b>	<b>75977209</b>	<b>19.1</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Onion Producing Countries (2010-11)



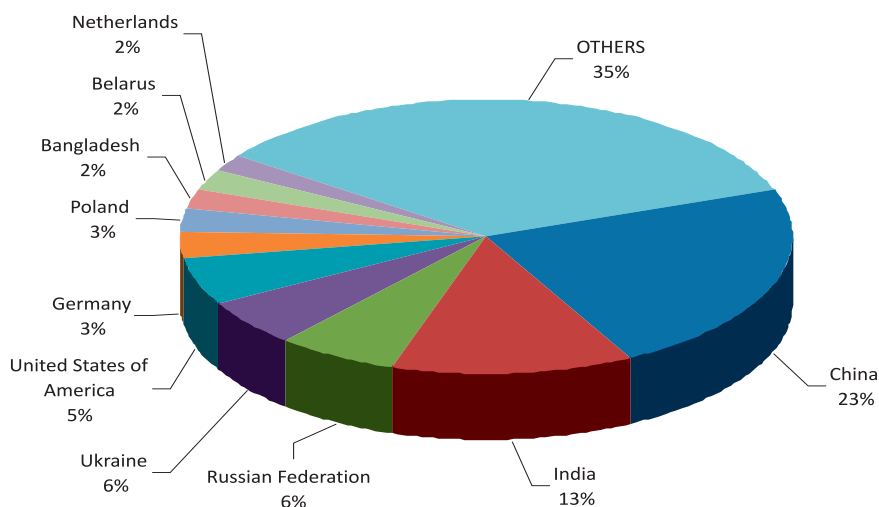


## MAJOR POTATO PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
China	5077504	74799084	14.7
India	1863000	42339000	22.7
Russian Federation	2109100	21140500	10.0
Ukraine	1408000	18705000	13.3
United States of America	406588	18016200	44.3
Germany	255200	10201900	40.0
Poland	490853	8765960	17.9
Bangladesh	435000	7930000	18.2
Belarus	366766	7831110	21.4
Netherlands	156969	6843530	43.6
OTHERS	6061218	113474825	18.7
<b>World + (Total)</b>	<b>18630198</b>	<b>330047109</b>	<b>17.7</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

### Leading Potato Producing Countries (2010-11)

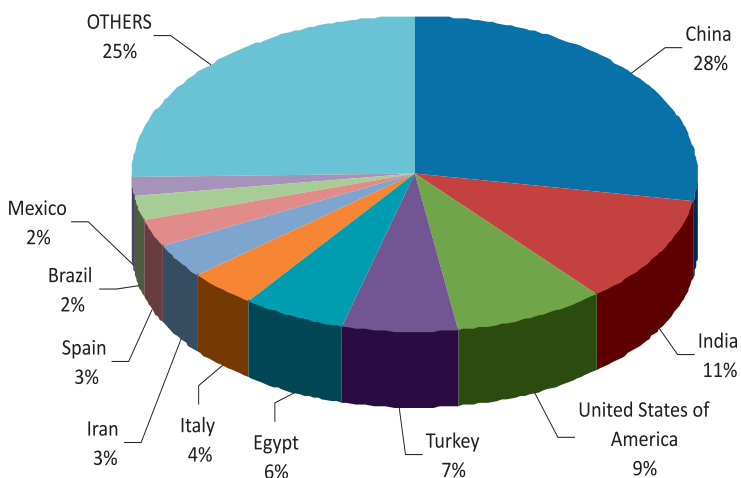


## MAJOR TOMATO PRODUCING COUNTRIES IN THE WORLD (2010-11)

COUNTRY	AREA IN HA	PRODUCTION IN MT	PRODUCTIVITY MT/HA
China	871235	41879684	48.1
India	865000	16826000	19.5
United States of America	159200	12902000	81.0
Turkey	304000	10052000	33.1
Egypt	216385	8544990	39.5
Italy	118822	6024800	50.7
Iran	146985	5256110	35.8
Spain	58300	4312700	74.0
Brazil	60772	3691320	60.7
Mexico	98189	2997640	30.5
OTHERS	1683550	38026569	22.6
<b>World + (Total)</b>	<b>4582438</b>	<b>150513813</b>	<b>32.8</b>

Source FAO Website : March 2012 and for India Data Indian Horticulture Database 2011

## LEADING TOMATO PRODUCING COUNTRIES (2010-11)







## **CHAPTER-V**

### **EXPORT SPECIFICATIONS FOR FRUITS**

## EXPORT SPECIFICATIONS FOR GRAPES



**Sharad Seedless**



**Flame Seedless**



**Thompson Seedless**

Variety	Countries		
	Middle East	Holland/ Germany	U.K.
Thompson Seedless	Berry Size: 15mm Colour: amber	Berry Size: 16mm Colour: white/amber	Berry Size: 18mm white
Sharad Seedless	Berry Size: 15mm black	Berry Size: 16mm black	Berry Size: 18mm black
Flame Seedless	-----	Berry Size: 16mm pink	Berry Size: 18mm pink
Packing	1 Kg	4.5 Kg /9 kg	4.5 Kg /9kg
Storage Temp.	0-1 °C	0-1 °C	0-1 °C

## International Standards of Pesticide Residue Levels

Insecticide/Pesticide	Max. Permissible Limits(mgm/kg)- Europe
Organochlorine Pesticides	nbsp;
Aldrin	ND
Chlordane (cis & trans)	ND
Chlorothalonil	1.00
DDT (all isomers)	ND
Dichlofluanid	10.00
Dicofol	2.00nbsp;



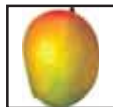
Dieldrin	ND
Endosulfan (all isomers)	0.50
Endrin	0.01
Lindane	0.5
HCH (alpha & beta)	ND
Heptachlor	0.01
Organophosphorus Pesticides	
Acephate	0.02
Azinphos-methyl	1.00
Chlorfenvinphos	0.05
Chlorpyrifos methyl	0.02
Drazinon	0.02
Dichlorvos	0.10
Dimethoate	1.00
Ehion	0.50
Etrifos	ND
Fenitrothion	0.01
Fenitrothion	0.50
Malathion	0.10
Profenophos	0.05
2-chlorophenol(metabolite)	ND
Methamidophos	0.01
Methidathion	0.50
Mevinphos	0.10

**Source:** Maharashtra State Agriculture Marketing Board. Website (Jan, 2009)

## EXPORT SPECIFICATIONS FOR MANGO



**Alphonso**



**Kesar**

Variety	Countries				
	Middle East	Netherlands / Germany	U.K.	Japan	USA
Alphonso	Wt: 200-250gm	Wt: 250-300gm	Wt: 250-300gm	Wt : 250-300gm	Wt : 250-300gm
Kesar	Wt: 200-250 gm	Wt: 225-250 gm	Wt: 225-250 gm	Wt : 250-300 gm	Wt : 250-300 gm
Packing	1 Doz/2.5 kg	1 Doz/2.5 kg	1Doz/2.5 kg	1 doz/ 3.5 kg	1 Doz/3.5 kg
Storage Temperature	13°C	13°C	13°C	13°C	13°C
Export	By Sea	By Air	By Air	By Air	By Air

**Source:** Maharashtra State Agriculture Marketing Board. Website (Jan, 2009)

## EXPORT SPECIFICATIONS FOR POMEGRANATE



**Arakta**



**Ganesh**

Variety	Countries		
	Middle East	Netherlands / Germany	U.K.
Ganesh, Bhagwa	300-450 gm Red	250-300 gm Red	250-300 gm Red
Arakata, Mrudula	200-250 gm Deep red	200-250 gm Deep red	200-250 gm Deep red
Packing	5 kg	3 kg	3 kg
Storage	5 °C	5 °C	5 °C
Export	By Sea	By Sea	By Sea

**Source:** Maharashtra State Agriculture Marketing Board. Website (Jan, 2009)



## EXPORT SPECIFICATIONS FOR PAPAYA



**Taiwan**

Variety	Countries	
	Middle East	Europe
Taiwan 785	Pale Green, 1-1.25 kg/Fruit	---
Taiwan 786	Pale Green, 1-1.25 kg/Fruit	---
Solo	----	400-500 gm/fruit
Packing	8 kg	5 kg.
Storage Temp.	10-13 °C	10-13 °C
Transport	By Sea	By Sea

**Source:** Maharashtra State Agriculture Marketing Board. Website (Jan, 2009)

## EXPORT SPECIFICATIONS FOR SAPOTA



**Cricket Ball**

	Middle East
Variety	Cricket ball, Kalipatti
Packing	3 Kg
Storage	15-20°C
Transport	By Sea

**Source:** Maharashtra State Agriculture Marketing Board. Website (Jan, 2009)

## EXPORT SPECIFICATIONS FOR MANDARIN



**Nagpur  
Mandarin**

Variety	Countries
	Middle East
Nagpur Mandarin	<p>Fruit Colour : Light orange</p> <p>Fruit Weight : 150-175 Gms</p> <p>Grades : 65-70 mm &amp; 40-45 mm</p>
Packing	<p>65 mm grade - 7 Kg</p> <p>40 mm grade - 2.5 Kg</p>
Storage	5-7 ° C
Transport	By Sea

**Source:** Maharashtra State Agriculture Marketing Board. Website (Jan, 2009)

## EXPORT SPECIFICATIONS FOR BANANA



**Grand Naine**

Variety	Countries
	Middle East
Grand Naine Cavendish	<p>Colour : Green, Weight of Bunch : 2.5 Kg</p> <p>Fruits preferably straight</p>
Packing	13 Kg
Storage	13-14 °C
Transport	By Sea

**Source:** Maharashtra State Agriculture Marketing Board. Website (Jan, 2009)



## EXPORT SPECIFICATIONS FOR VEGETABLES



Lot of vegetables is being exported from Mumbai every day. The major export is by air. However, since last few years export has been started by sea container. The major destination of vegetables export is middle east and gulf countries. The major products products in demand & their specifications are.

Commodity	Parameters for Export
Commodity	Parameters for export
Okra	3-5 inch length, green tender, packing 5 kg
Tondali	1-2 inch length, green tender, packing 5 Kg
Bottle Gourd	12 inch length, greenish tender, straight, packing 5 Kg
Peas	5-6 inch length, green tender, straight, packing 5 Kg
Gawar	4-5 inch length, not over matured, packing 5 Kg
Suran	Cleaned, weighing around 5-10 Kg
Green Chilli	3-4 Inch length, green, packing 5 Kg
Drum Sticks	24 Inch length, straight, thick, packing 5 Kg
Lime	20-25 mm, green, packing 5 Kg gunny bags, 20 kg wooden boxes.
Mode of Transport	By Air or By Sea

**Source:** Maharashtra State Agriculture Marketing Board. Website (Jan, 2009)







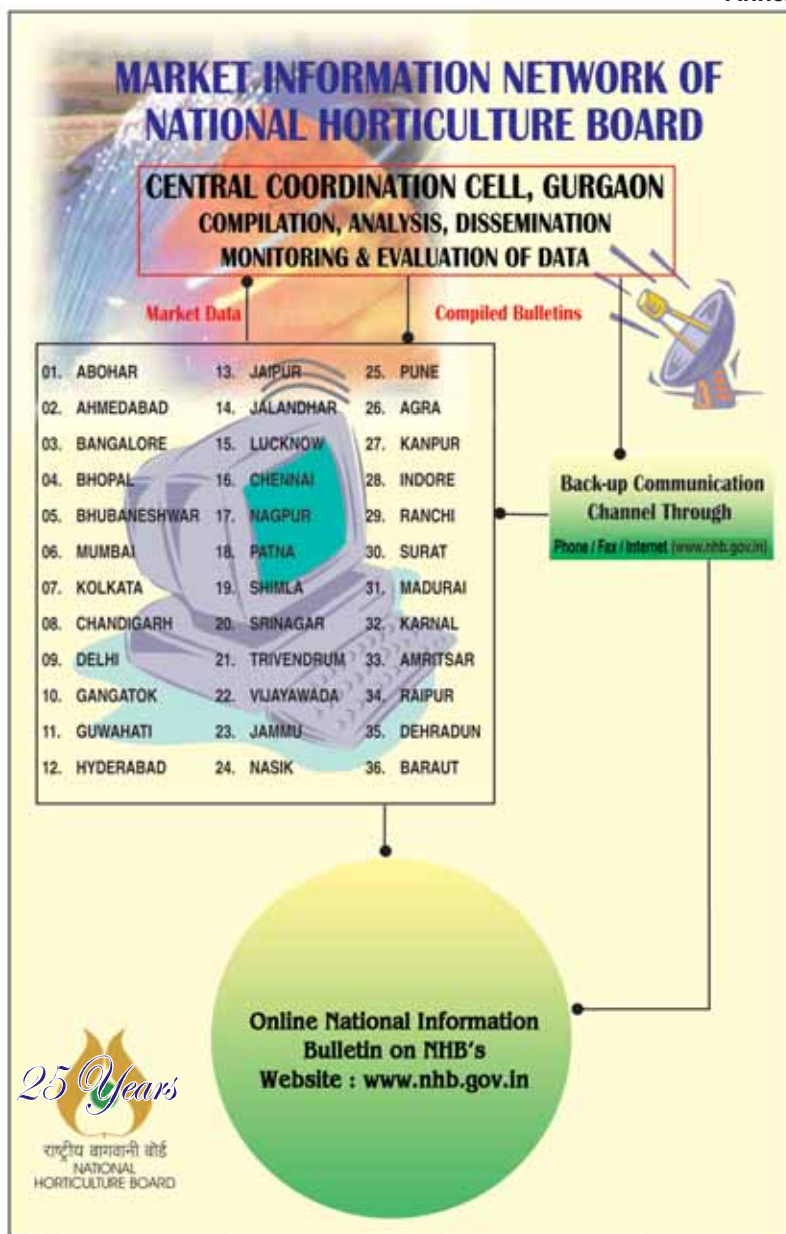
# ANNEXURES

- ◆ MARKET INFORMATION NETWORK
- ◆ NHB SCHEMES - AT A GLANCE
- ◆ LIST OF NHB OFFICES
- ◆ LIST OF NHB PUBLICATIONS
- ◆ REFERENCE/SOURCE OF DATA
- ◆ AVAILABILITY OF FRESH FRUITS & VEGETABLES IN INDIA
- ◆ AREA AND PRODUCTION UNDER HORTICULTURE CROPS (2010-11)
- ◆ AREA AND PRODUCTION UNDER FRUITS CROPS (2010-11)
- ◆ AREA AND PRODUCTION UNDER VEGETABLES CROPS (2010-11)





Annexure-1





## NHB SCHEMES AT A GLANCE

**National Horticulture Board (NHB) was set up by the Government of India in 1984 as an autonomous society under the Societies Registration Act 1860. Board has its Head Quarter in Institutional Area, Sector 18, Gurgaon (Haryana).**

### **Aims & Objectives of NHB Schemes**

***The broad aims & objectives of all the above mentioned schemes are as under :-***

- Development of hi-tech commercial horticulture in identified belts and make such areas vibrant with horticultural activity, which in turn will act as hubs for development of horticulture
- Development of modern post-harvest management infrastructure as an integral part of area expansion projects or as common facility for cluster of projects
- Development of integrated, energy efficient cold chain infrastructure for fresh horticulture produce,
- Popularization of identified new technologies / tools / techniques for commercialization / adoption, after carrying out technology need assessment
- Assistance in securing availability of quality planting material by promoting setting up of scion and root stock banks / mother plant nurseries and carrying out accreditation / rating of horticulture nurseries and need based imports of planting material.
- Promotion and market development of fresh horticulture produce.
- Setting up of Common Facility Centers in Horticulture Parks and Agri-Export Zones.
- Strengthen market intelligence system by developing, collecting and disseminating horticulture database.
- Carrying out studies and surveys to identify constraints and develop short and long term strategies for systematic development of horticulture and providing technical services including advisory and consultancy services.

### **1. Development of Commercial Horticulture through Production and Post Harvest Management of Horticulture Crops**

#### **Description of components and Pattern of Assistance**



- Production related components:- Credit linked projects relating to establishment of hi-tech commercial production units involving any of the following items are eligible for assistance under this component :-
  - High quality commercial horticulture crops
  - Indigenous crops / produce, herbs, spices
  - Aromatic & Medicinal Plants
  - Seed & Nursery
  - Bio-Technology, micro-biology, bio-chemistry, bio-diversity & tissue culture
  - Protected cultivators
  - Bio-pesticides
  - Organic fertilizers, organic foods, bio-dynamic farming, vermi-compost
  - Establishment of Hort. Health clinics / laboratories
  - Hydroponics, Aeroponics
  - Beekeeping and its products
  - Mushrooms and its products
  - Nuts and its products
- **Pattern of Assistance**

Credit linked back-ended subsidy @ 20% of the total project cost limited to Rs 25 lakh per project in general area and Rs 30.00 lakh in NE Region, Hilly and Scheduled areas. However, for capital intensive and high value crops under protected cultivation and open air cultivation of date palm, olive and saffron subsidy will be @ 25% of project cost with ceiling of Rs.50 lakh (33% of project cost with ceiling of Rs.60 lakh for scheduled and hilly areas).
- **General conditions**
  - The above assistance shall be available for projects covering area above four hectares (above 10 acres) in case of open cultivation, and more than 1000 sq. meter in case of protected cultivation.
  - Credit component as means of finance of the project should be term loan from

banking or non banking financial institutions and should be at least 15 % more than the admissible rate of subsidy.

- Projects relating to setting up of new production units shall be appraised to ensure and enable entrepreneur to incorporate essential hi-tech components in the form of planting material, plantation, irrigation, fertigation, precision farming, on farm PHM/ primary processing related infrastructure, GAP etc.; and to that extent, the project shall be integrated in nature.
- Normative cost of various components shall be prescribed by NHB.

**PHM/Primary Processing related components: - credit linked projects involving the following items are eligible for assistance under this component :-**

- Washing, drying, sorting, grading, waxing, packing, palletizing, freezing units etc.
- Pre-cooling units / Cool Stores
- Reefer Van / Containers
- Specialized Transport Vehicle
- Retail outlets
- Auction platform
- Ripening / curing chamber
- Market yards / rope ways
- Irradiation / Vapour Heat Treatment unit
- Primary processing of products (fermentation, extraction, distillation, juice vending, pulping, dressing, cutting, chopping, dehydration etc.)
- Natural colour and dyes extraction
- Essential oils, perfumery and cosmetics out of horticulture products
- Products out of horticulture waste
- Horticulture ancillary industry for promoting indigenous manufacturing of horticulture related farm tools & machineries, equipments, plastics containers, packaging etc.
- Adoption of Quality Assurance Systems (HACCP, TQM, ISO, Euro-GAP etc.)



- Plastic Crates and Bins, Cartons, Aseptic Packaging and Nets

- **Pattern of Assistance**

Credit linked back-ended subsidy @ 40% of the total project cost limited to Rs 50 lakh per project in general area and @ 55% of project cost limited to Rs 60.00 lakh in Hilly and Scheduled areas. Pattern of assistance for plastic crates will be 50% of the total cost.

- General conditions for PHM/PP projects are given in detailed guidelines.

## 2. **Capital Investment Subsidy Scheme for construction/ expansion/modernization of Cold Storages/Storages of Horticulture Produce**

### **Description of components and Pattern of Assistance**

- **Components:-** Credit linked projects relating to Cold Storages including Controlled Atmosphere (CA) and Modified Atmosphere (MA) Stores, pre-cooling units, other Storages for onion, etc., their modernization are eligible for assistance under this component.
- **Pattern of Assistance:-** The assistance will be as credit linked back-ended subsidy @ 40% of the capital cost of project in general areas and 55% in case of Hilly & Scheduled Areas for a maximum storage capacity of 5000 MT per project for item (i) to (iv) below: -
- **General conditions for cold storage projects**
  - Multi-chamber cold storages with mezzanine floors of RCC and or wooden structure for products not requiring pre-cooling, temperature range 0°C plus to 16°C or above with fin-coil cooling system, with control system for humidity (RH 80% to 95% in general and 65%-70% for onion & garlic or appropriate level for seed storage etc) and appropriate handling of stored commodity with safety system against accidents of fire, leakage of refrigerant etc. Minimum of two chambers, Standard insulation material, with civil structure, insulations and cooling system as per prescribed Standards - @ Rs 6,000 per MT
  - Multi-chamber and Multi-Product cold storage for whole range of horticulture produce but without pre-cooling system (temperature range from -2°C or lower to +16°C plus (with temperature, humidity and CO<sub>2</sub> control (RH= 80% to 95% for F & V in general and 65%-70% for onion & garlic or appropriate level for seed storage etc), fin-coil cooling system and energy saving devices for peak and lean load period, heat exchanger with CO<sub>2</sub> control system, appropriate technology for control of

microorganism / dust mite and mechanical handling of stored commodity such as racks, pallets & forklift / stacker (as per site conditions); bags/ bins and crates/ CFB boxes and also safety devices against accident.

(a) With civil structure/ pre-fabricated engg. Structure, insulation, cooling system etc as per prescribed standards excluding cold storage with mezzanine floors @ Rs 7000/- per MT

(b) With civil structure/ pre-fabricated engg. structure, insulation, cooling system etc. as per prescribed standards (excluding cold storage with mezzanine floors) and having on-farm or off-farm pack house facility of washing/ de-sapping (as per requirement), drying, sorting, grading, waxing, packing etc and pre-cooling @ Rs 8000/- per MT.

- **Modernization of Cold Storages**

(a) Up gradation of thermal insulation

(b) Up gradation of cooling system, refrigeration, air flow, electric installation, handling devices, safety devices etc.

Project based @ maximum 1000/MT for (i) and up to Rs. 2000/MT for (ii) above  
Benefit of (i) and (ii) above may go together for complete modernization.

- CA Storages (@ Rs 32,000 per MT)
- Credit components as means of finance of the project should be term loan from banking or non banking financial institutions and should be at least 15% more than the admissible rate of subsidy.
- Only such projects under this component shall be eligible to get financial assistance as per revised norms, which meet prescribed minimum technical standards; this shall be ascertained as per implementation protocols prescribed in this regard.
- Rack, pallets and design-appropriate system for mechanized handling are incorporated in above type designs.
- In respect of projects, which have addition of components or technically recommended different combinations of components of pre-cooling, pack house etc, the normative cost shall be worked out by the Committee of the Board.
- NHB assistance is available only when notified latest technical standards and





protocol for the purpose by the Ministry of Agriculture are followed by the beneficiary.

### **3. Technology Development and Transfer for promotion of Horticulture**

#### **Components**

- Introduction of New Technology
- Visit of progressive farmers
- Promotional and Extension Activities
- Technical knowhow from India/Abroad
- Technology Awareness
- Organising/participation in seminars/symposia/exhibitions
- Udyan Pandit
- Publicity and Films
- Awareness for technology up gradation and markets
- Honorarium to scientists for effective transfer of technology.
- Accreditation and Rating of Horticulture Nurseries
- Mother Plant Nurseries for pedigreed planting material for fruit crops
- Assistance for Common Facilities in Horticulture Parks/ Agri. Export Zones etc.

For Componentwise implementation and pattern of assistance, please refer detailed guidelines.

### **3. Technology Development and Transfer for promotion of Horticulture**

#### **Components**

- Introduction of New Technology
- Visit of progressive farmers
- Promotional and Extension Activities
- Technical knowhow from India/Abroad
- Technology Awareness

- Organising/participation in seminars/symposia/exhibitions
- Udyan Pandit
- Publicity and Films
- Awareness for technology up gradation and markets
- Honorarium to scientists for effective transfer of technology.
- Accreditation and Rating of Horticulture Nurseries
- Mother Plant Nurseries for pedigreed planting material for fruit crops
- Assistance for Common Facilities in Horticulture Parks/ Agri. Export Zones etc.

For Componentwise implementation and pattern of assistance, please refer detailed guidelines.

#### 4. Market Information Service for Horticulture Crops

##### Objectives

- To generate information on wholesale prices, arrivals and trends in various markets of the country for important fruits, vegetables & flowers etc and also on retail prices for increased number of selected markets
- To analyze the trends of arrivals, prices and other related factors of the selected fruit and vegetables such as stock in storage, crop stand etc and generate Market Intelligence Reports
- To establish a nation-wide communication network for speedy collection and dissemination of market information data for its efficient and timely utilization.
- To prepare farmers' advisory and issue the same for the benefit of producer farmers especially by making use of statistics so generated and collected for optimizing returns to the producers
- To collect and disseminate information on international prices prevailing in potential foreign markets
- To collect and compile horticulture database and strengthen existing system of 'Crop Estimation Survey-Fruits & Vegetables' (CES-F&V) as far as possible



## 5. Horticulture Promotion Service

Under this component, specialized studies and surveys shall be carried and study / survey reports shall be brought out for use by targeted beneficiaries. In addition, technical laboratories shall be set up or cause to be set up and also provide technical services including advisory and consultancy services. This shall be done by NHB with or without services of outsourced experts.

### Components

- Review the present situation of horticulture development in particular area/ State
- Identify constraints in horticulture development and suggest remedial measures
- Develop short term and long term strategies for systematic development of horticulture,
- Develop primary/secondary data of various aspects on horticulture,
- Provide consultancy services, expert services & establishing labs etc. in pursuance thereof,
- Conduct technical scrutiny and certification of cold chain infrastructure as per implementation protocol for Technical Standards for cold storages etc.
- Preparing reports relating to export competitiveness in the area of fresh horticulture produce,
- Any other component of expert services provided by NHB addressing to identified needs of the sector

### Eligible Organizations

Unless otherwise specified, organizations/promoters, such as NGOs, Association of Growers, Individuals, Partnership/Proprietary Firms, Companies, Corporations, Cooperatives, Agricultural Produce Marketing Committees, Marketing Boards/ Committees, Municipal Corporations/ Committees, Agro-Industries Corporations, SAU's and other concerned R&D organizations are eligible to get assistance under all the NHB schemes.

## LIST OF NHB OFFICES

1. National Horticulture Board  
Vikas Bhawan, Fazilka Road,  
ABOHAR - 152116  
Tele/Fax : 01634-230822
2. National Horticulture Board  
C/o Suprintendent Garden,  
Shahjan Park, Tajganj,  
AGRA - 282001  
Tele/Fax : 0562-2331470
3. National Horticulture Board  
Plot No. 60, 3rd Floor Krishna Apartment  
Azad Society, Ambawadi  
AHMEDABAD-380 015 (Guj)  
Tele/Fax : 079-26766416, 26766413  
E-mail : nhbhd@yahoo.co.in  
vksharma@nhb.gov.in
4. National Horticulture Board  
C/o Directorate of Horticulture,  
Room No. 13, 2nd Floor,  
Kheti Bhawan, Ranjeet Avenue,  
AMRITSAR - 143001  
Tele/Fax : 0183-2500236
5. National Horticulture Board  
C/o Regional Institute of Rural Dev.,  
Delhi - Saharanpur Road,  
BARAUT, DISTT. BAGHPAT  
Tele/Fax : 01234-251723, 251157
6. National Horticulture Board  
No. 14/43, 2nd Floor, 1 & 2 Stage  
Industrial Suburb, Tumkur Road,  
Yeshwantpur  
BANGALORE - 560022  
Tele/Fax : 080-23371935, 23374149  
E-mail : nhbblr@yahoo.com
7. National Horticulture Board  
32, Purjor House, 1st Floor,  
Indira Press Complex  
M.P. Nagar Zone-I, BHOPAL - 462011  
Tele/Fax : 0755-2761741, 2550768  
E-mail : bplnhb@rediffmail.com
8. National Horticulture Board  
N-1/303, Lottery Plot, Nyapali,  
BHUBANESHWAR - 751015  
Tele/Fax : 0674-2558134  
E-mail : nhbbbsr@gmail.com
9. National Horticulture Board  
SCO No. 85, 2nd Floor, Sec. - 40C,  
CHANDIGARH - 160 047  
Tele/Fax : 0172-2625249, 2625269  
E-mail : nhb\_chd@yahoo.co.in
10. National Horticulture Board  
Module No. 37, II Floor  
SIDCO Readymade Garment Complex  
Industrial Estate Guindy,  
CHENNAI - 600032  
Tele/Fax : 044-22501151, 22500965  
E-mail : nhbntn@dataone.in
11. National Horticulture Board  
179, Phase-II, Vasant Vihar,  
DEHRADOON - 248001  
Tele/Fax : 0135-2761922, 2762767  
E-mail : nhb\_dehradun@yahoo.com
12. National Horticulture Board  
Chang Choop Building  
Near Nayuma Television, Tibet Road,  
GANGTOK - 737101  
Tele/Fax : 03592-228453, 220975  
E-mail : nhbgangtok@yahoo.com
13. National Horticulture Board  
Chhibber House,  
4th Floor, Dispur P.O.,  
GUWAHATI - 781005  
Tele/Fax : 0361-2343719, 2340695  
E-mail : nhbgghy@yahoo.co.in
14. National Horticulture Board  
202, 2nd Floor, Shantiniketan Apartment,  
Chirag Ali Lane ABIDS,  
HYDERABAD - 500001  
Tele/Fax : 040-23201140  
E-mail : nhb.govhyd@gmail.com



15. National Horticulture Board  
Residency Kothi (Complex)  
INDORE - 452001
16. National Horticulture Board  
2nd Floor, 5, Vijay Laxmi Mahima  
Near Lal Kothi, Subzimandi  
Shahkarmarg, JAIPUR - 302015  
Tele/Fax : 0141-2742733, 2740767  
E-mail : nhbjpr@yahoo.com
17. National Horticulture Board  
C/o Director of Horticulture,  
Horticulture Complex, Cantt. Road,  
JALANDHAR (PUNJAB)  
Tele/Fax : 0181-223048
18. National Horticulture Board  
Hall No. 307, A-2, 3rd Floor,  
South Block, Bahu Plaza,  
Rail Head Complex,  
JAMMU - 180004  
Tele/Fax : 0191-2474349  
E-mail : nhbjammu@rediffmail.com
19. National Horticulture Board  
133/54, 'O' Block,  
Kidwai Nagar,  
KANPUR  
Tele/Fax : 0512-2607631
20. National Horticulture Board  
Diwan Colony,  
KARNAL - 132001
21. National Horticulture Board  
Mayukh Bhawan, 2nd Floor,  
Salt Lake, Sector - II,  
KOLKATA - 700091  
Tele/Fax : 033-23211259, 23377182  
E-mail : nhb\_kolkata@yahoo.com
22. National Horticulture Board  
C/o Director of Horticulture,  
2, Sapru Marg, Udyan Bhawan,  
LUCKNOW - 226001  
Tele/Fax : 0522-2623374, 2202420, 4072096  
E-mail : nhbiko@rediffmail.com
23. National Horticulture Board  
Plot No. 142, 1st Floor,  
Seikkilar, Street Extension,  
Bibikulam  
MADURAI - 625002 (T.N.)
24. National Horticulture Board  
Room No. 317, 4th Floor  
Central Facility Building,  
APMC Fruit Market Complex,  
Sector-19, Turbhi, Vashi,  
Navi Mumbai-400703  
Tel./Fax : 022-27830107
25. National Horticulture Board  
3rd Floor, MECL, Complex,  
Near TV Tower, Seminary Hills,  
NAGPUR - 440006  
Tele/Fax : 0712-2513030, 2513110  
E-mail : nhbnagpur@rediffmail.com
26. National Horticulture Board  
S.C. Panwar Market Yard  
Commercial Complex No. 1  
Peth Road, Panchwati  
NASHIK - 422003  
Tele/Fax : 0253-2534558, 2533715  
E-mail : nhbnashik@yahoo.com
27. National Horticulture Board  
19-22 (Garage),  
Krishi Bhawan,  
NEW DELHI - 110 001  
Tele/Fax : 011-23073019, 23097015  
E-mail : nhbdli@rediffmail.com  
kctomar@yahoo.co.in
28. National Horticulture Board  
Verma Centre, 5th Floor,  
Room No. 501-502,  
Boring Canal Road,  
PATNA-800001  
Tele/Fax : 0612-2541218, 2541128  
E-mail : nhb\_patna@sify.com  
nhb\_patna@sify.com
29. National Horticulture Board  
MCAER, Building, 132/B,  
Bhambhurda, Govt. of Maharashtra,  
Bhosale Nagar,  
PUNE- (MS) - 411007  
Phone : 020-25530582-83  
E-mail : nhbpune@yahoo.com

30. National Horticulture Board  
Katela Bhawan, Civil Lines,  
RAIPUR - 492001 (CHATTISGARH)  
Tele/Fax : 0771-2423992  
E-mail : nhbraipur@yahoo.co.in
31. National Horticulture Board  
Laxmi Niwas, Krishi Bhawan  
Kankey Road, RANCHI - 834008  
Tele/Fax : 0651-2230132, 2233832  
E-mail : nhbranchijh@rediffmail.com
32. National Horticulture Board  
HPMC, IInd Floor Nigam Vihar,  
SHIMLA - 171002 (H.P.)  
Tele/Fax : 0177-2623801, 2622908  
E-mail : nhbhp2004@yahoo.com
33. National Horticulture Board  
Horticulture Complex,  
Rajbagh,  
SRINAGAR - 190008  
E-mail : nhbjammu@rediffmail.com
34. National Horticulture Board  
310/311, 3rd Floor,  
I.D. Shopping Centre,  
Near, Shivaji Statue,  
Sahara Darwaja,  
SURAT - 395003  
Tele/Fax : 0261-2311343
35. National Horticulture Board  
Space - 1,2 & 3, Lower Ground Floor  
Trans towers,  
Opposite Womens College  
Vazhuthacaud, Thycaud. P.O.  
TRIVANDRUM - 695014  
Tele/Fax : 0471-2337578-79  
nhbtvm@gmail.com
36. National Horticulture Board  
Municipal Stadium Complex  
VIJAYAWADA - 520010



## Annexure-4

# LIST OF NHB PUBLICATIONS

## Regular Publication

1. Horticulture Information Service (Monthly)	
Annual Subscription	
Commercial Organisation .....	Rs. 750/-
Institutes and Libraries .....	Rs. 650/-
Single Copy .....	Rs. 75/-
2. Facts and Figures (Indian Fruit & Vegetable) .....	Rs. 600/-
3. NHB Production Year Book – 1997 .....	Rs. 500/-
4. Indian Horticulture Database (1998).....	Rs. 850/-
5. Indian Horticulture Database (1999) .....	Rs. 500/-
6. NHB Production Year Book (2001) .....	Rs. 300/-
7. Indian Horticulture Database (2001) .....	Rs. 650/-
8. Indian Horticulture Database (2002) (Released in November 2002).....	Rs. 650/-
9. Indian Horticulture Database (2003) (with CD-Rom) .....	Rs. 850/-
• Indian Horticulture Database (2003) (without CD-Rom).....	Rs. 650/-
• Indian Horticulture Database (2003) (only CD-Rom).....	Rs. 250/-
10. Indian Horticulture Database (2004) .....	Rs. 650/-
11. Indian Horticulture Database (2005) .....	Rs. 700/-
12. Indian Horticulture Database (2006) .....	Rs. 700/-
13. Indian Horticulture Database (2008) .....	Rs. 700/-
14. Indian Horticulture Database (2009) .....	Rs. 700/-
14. Indian Horticulture Database (2010) .....	Rs. 700/-

## Other Publication

1. First National Conference on Bee keeping .....	Rs. 75/-
2. Wholesale Marketing of Fruits and Vegetables in Metropolitan Cities (1991-95).....	Rs. 400/-
3. Wholesale & Retail Marketing of Fruits & Vegetable in Metropolitan Cities (1995-99).....	Rs. 300/-
4. Market Profile of Important Wholesale Fruit & Vegetable of the Country.....	Rs. 200/-
5. Operational Guidelines (January, 2007) .....	Rs. 50/-
6. Operational Guidelines (July, 2010) .....	Rs. 50/-
7. Approaches for Sustainable Development for Horticulture .....	Rs. 500/-
8. Horticulture in India .....	Rs. 500/-
9. Indian Horticulture - A Road Map .....	Rs. 500/-




























































































































































































**Note : Demand Draft must be sent in favour of National Horticulture Board payable at Gurgaon (Haryana)**

## SOURCES

1. MINUTES OF THE MEETING OF REVIEW COMMITTEE OF DEPARTMENT OF AGRICULTURE & COOPERATION ISSUED VIDE E-MAIL DATED 2.2.2012.
2. DIRECTORATE OF HORTICULTURE/AGRICULTURE (RESPECTIVE STATE GOVERNMENTS)-FOR FRUITS, VEGETABLES, FLOWERS, AROMATICS & MEDICINAL PLANTS & NUTS
3. DIRECTORATE OF ECONOMICS AND STATISTICS, MINISTRY OF AGRICULTURE, GOVERNMENT OF INDIA (CES F&V SCHEME)
4. DIRECTORATE OF SPICES AND ARECANUT, DIRECTORATE OF CASHEW AND COCOA, COCONUT DEVELOPMENT BOARD
5. EXPORT - APEDA WEBSITE FEBRUARY (2011)
6. WORLD STATISTICS - FAO WEBSITE (MARCH 2011), EXCEPT INDIAN DATA (SOURCE NHB DATA BASE)
7. EXPORT SPECIFICATIONS : MAHARASTRA STATE AGRICULTURE MARKETING BOARD.



# AVAILABILITY OF FRESH FRUITS & VEGETABLES IN INDIA

FRUITS	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
Apple												
Banana												
Grapes												
Guava												
Lime/Lemon												
Litchi												
Mango												
Mosambi												
Orange												
Papaya												
Pineapple												
Sapota												
VEGETABLES	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
Brinjal												
Cabbage												
Cauliflower												
Okra												
Onion												
Peas												
Potato												
Tomato												

## STATEWISE AREA AND PRODUCTION OF VARIOUS HORTICULTURAL CROPS DURING THE YEAR 2010-11

STATE/UT'S	FRUITS		VEG.		FLOWERS			AROMATIC		SPICES		PLANTATION		TOTAL	
	Area	Prod.	Area	Prod.	Area	Prod.		Area	Prod.	Area	Prod.	Area	Prod.	Area	Prod.
						LOOSE	CUT								
ANDAMAN & NICOBAR	3.1	28.7	5.7	34.5	0.0	4.7				1.6	3.1	26.9	71.7	37.4	142.6
ANDHRA PRADESH	646.1	9417.0	651.2	11847.6	21.8	133.7	6202.0	20.3	79.9	289.2	1069.2	304.8	777.2	1933.4	23324.5
ARUNACHAL PRADESH	72.0	107.9	4.2	38.5	1.2		2860.0			10.1	61.6	0.0	0.0	87.5	208.0
ASSAM	137.5	1763.5	260.1	2925.5				0.0	0.0	89.2	222.1	88.8	163.7	575.5	5074.8
BIHAR	296.4	3911.8	845.0	14630.2	0.2	2.3	11.0			13.0	12.5	0.0	0.0	1154.6	18556.8
CHANDIGARH	0.1	1.1	0.1	1.7				0.0	0.0			0.0	0.0	0.2	2.8
CHHATTISGARH	177.0	1569.6	345.8	4248.8	6.9	27.1		11.2	64.5	11.7	8.3	33.7	25.3	586.2	5943.6
D & N HAVELI	0.0	0.0	1.1	5.5								0.0	0.0	1.1	5.5
DAMAN & DIU	0.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0	0.0	0.0
DELHI	0.1	1.0	29.8	496.8	5.5	5.7	1038.0					0.0	0.0	35.4	503.5
GOA	11.0	78.6	5.7	57.8						0.7	0.2	83.5	114.8	100.8	251.4
GUJARAT	349.9	7245.0	515.9	9379.5	12.5	49.5	5063.0			479.4	792.6	23.1	129.3	1380.8	17595.9
HARYANA	46.3	356.6	346.4	4649.3	6.2	60.3	1084.0	1.0	0.6	15.1	77.9	0.0	0.0	415.0	5144.7
HIMACHAL PRADESH	214.8	1031.1	80.4	1474.9	0.7	0.6	605.0			6.6	19.6	0.0	0.0	302.5	2526.2
JAMMU & KASHMIR	325.6	2220.5	69.7	1559.1	0.1	0.2	66.3			3.9	0.9	0.0	0.0	399.3	3780.8
JHARKHAND	72.0	779.6	259.5	4112.4	1.6	22.0	1711.0	0.1	0.0	0.0	0.0	0.0	0.0	333.2	4914.0
KARNATAKA	377.8	6273.6	466.3	9056.4	27.0	203.9	5860.0	3.7	22.2	259.1	460.4	732.0	1781.4	1866.0	17797.9
KERALA	301.3	2508.3	149.5	3392.7						234.8	113.1	974.8	4182.1	1660.4	10196.3
LAKSHADWEEP	0.4	1.2	0.4	14.1								2.7	40.0	3.5	55.3
MADHYA PRADESH	132.3	3373.5	283.7	3698.6	7.7	6.0		33.9	201.5	287.5	413.7	0.0	0.0	745.1	7693.3
MAHARASHTRA	1537.0	9513.0	611.0	7504.0	17.5	91.1	7914.0			116.5	100.6	204.2	331.6	2486.2	17540.2
MANIPUR	68.7	286.3	22.2	236.5	0.0	0.0				10.5	24.1	0.0	0.0	101.3	547.0
MEGHALAYA	30.2	241.9	41.8	356.5						16.8	71.4	12.4	17.1	101.1	686.9
MIZORAM	27.0	211.5	17.5	115.6	0.1	0.0	162.0	1.9	13.9	21.4	110.5	6.6	8.2	74.5	459.7
NAGALAND	18.2	151.3	10.7	79.4	0.0	0.0	17.0			7.5	38.5	1.1	1.6	37.4	270.8
ORISSA	320.7	2048.3	553.8	7790.1	7.4	3.7	5911.0	1.9	0.6	124.0	174.7	200.0	281.0	1207.8	10298.5
PONDICHERY	0.8	13.6	0.6	8.8	0.3	2.4		0.0	0.1	0.0	0.0	2.2	20.1	3.9	44.9
PUNJAB	69.8	1373.2	174.1	3585.8	1.7	82.0		7.1	1.3	18.4	63.5	0.0	0.0	271.2	5105.8
RAJASTHAN	51.1	695.1	140.3	885.0	5.4	9.6		285.2	146.2	598.9	668.0	0.0	0.0	1080.9	2403.9
SIKKIM	17.5	25.8	23.9	120.9	0.2		230.0			24.4	52.4	0.0	0.0	65.9	199.1
TAMILNADU	321.8	9965.0	277.3	8279.9	32.0	247.3		10.0	61.1	134.3	341.2	547.9	3768.4	1323.3	22662.9
TRIPURA	40.8	643.9	36.0	532.3						5.8	18.1	10.2	16.4	92.8	1210.7
UTTAR PRADESH	324.8	5368.4	829.4	17679.4	10.4	17.6	2958.0	133.7	13.4	56.6	200.7	0.0	0.0	1354.9	23279.5
UTTRANCHAL	179.3	718.9	85.8	1030.9	1.3	2.3	3416.0			6.7	38.7	0.0	0.0	273.0	1790.8
WEST BENGAL	211.6	2952.8	1349.7	26725.5	23.1	59.2	23919.0			96.9	192.9	51.0	277.2	1732.3	30207.6
<b>TOTAL</b>	<b>6382.6</b>	<b>74877.5</b>	<b>8494.5</b>	<b>146554.5</b>	<b>190.9</b>	<b>1031.3</b>	<b>69027.4</b>	<b>510.1</b>	<b>605.2</b>	<b>2940.4</b>	<b>5350.5</b>	<b>3305.7</b>	<b>12007.0</b>	<b>21824.1</b>	<b>240426.0</b>

P(Cut)= Production in (lakh Nos) Figure of Production under Grand Total does not include Production of Cut-Flowers.

Total does not include production of Honey and Mushroom.

Directorate of Arecanut & Spices Development.

AREA AND PRODUCTION OF FRUITS FOR THE YEAR 2010-11

STATE/UTs	APPLE		BANANA		GRAPES		GUAVA		LITCHI		MANGO		PAPAYA		CITRUS		PINEAPPLE		POMEGRANATE		SAPOTA		TOTAL FRUITS	
	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P
ANDAMAN NICOBAR			1.6	16.9			0.0	0.4			0.3	2.2	0.3	2.2	0.3	1.3	0.2	0.7	0.0	0.1	0.2	3.0	3.1	28.7
ANDHRA PRADESH			79.3	2774.8	1.3	27.6	8.5	128.2			391.1	3363.4	14.2	1138.4	128.2	1805.6			2.8	27.8	12.2	122.1	646.1	9417.0
ARUNACHAL PRADESH	12.8	10.0	5.4	13.3											34.1	35.6	10.9	34.4					72.0	107.9
ASSAM			47.6	723.6			4.9	97.3	5.2	40.5	4.8	47.5	7.4	134.4	27.4	268.2	14.0	220.7					137.5	1763.5
BIHAR			31.9	1517.1			29.4	235.2	31.1	227.0	147.0	1334.9	1.6	38.2	18.0	130.7	4.9	129.4					296.4	3911.8
CHANDIGARH					0.0	0.0	0.0	0.3	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.2							0.1	1.1
CHHATISHGARH			14.8	351.4			13.4	102.8	3.9	21.4	49.8	237.0	10.6	247.1	10.2	67.2			0.1	0.3	0.2	0.8	177.0	1569.6
D & N HAVELI															0.0	0.0							0.0	0.0
DAMAN & DIU															0.0	0.0							0.0	0.0
DELHI							0.0	0.4							0.0	0.3							0.1	1.0
GOA			2.3	25.1							4.6	7.6			0.0	0.0	0.3	4.7					11.0	78.6
GUJARAT			64.7	3978.0			10.2	150.7			130.1	911.3	17.8	974.0	39.2	409.1			5.8	60.3	28.8	288.0	349.9	7245.0
HARYANA					0.1	1.1	9.3	71.6	0.2	1.1	8.7	72.8			17.2	130.0					1.3	6.3	46.3	356.6
HIMACHAL PRADESH	101.5	892.1	0.1	0.4	0.1	0.1	2.2	3.1	4.4	3.0	39.2	31.5	0.2	0.9	22.3	28.7			1.4	0.6	0.1	0.0	214.8	1031.1
JAMMU & KASHMIR	141.7	1852.4			0.3	0.6	2.3	5.4	0.6	1.7	11.8	41.1			13.4	19.0							325.6	2220.5
JHARKHAND			3.2	64.3			7.0	84.4	4.3	35.9	38.9	427.9			7.4	75.6							72.0	779.6
KARNATAKA			111.8	2281.6	18.1	330.3	7.3	141.6			161.6	1778.8	6.1	440.2	15.7	324.7	3.0	186.1	13.6	142.6	30.8	377.8	377.8	6273.6
KERALA			58.7	483.7							62.2	380.9	16.2	100.8	0.0	0.0	10.2	85.5					301.3	2508.3
LAKSHDWEEP															0.0	0.0							0.4	1.2
MADHYA PRADESH			38.1	1719.6	0.6	14.7	9.7	280.8			16.7	150.6	2.0	227.0	45.0	798.5							132.3	3373.5
MAHARASHTRA			82.0	4303.0	86.0	774.0	36.0	311.0			477.0	331.0	9.0	319.0	278.0	1410.0			82.0	492.0	70.0	322.0	1537.0	9513.0
MANIPUR			33.7	34.9											6.2	48.0	12.2	104.4					68.7	286.3
MEGHALAYA			5.8	67.3									0.8	6.8	9.5	38.9	9.7	86.0					30.2	241.9
MIZORAM			10.0	118.6	1.6	20.4	0.4	2.3	0.4	1.6	0.7	2.9	0.8	6.8	11.3	43.9	1.5	13.6					27.0	211.5
NAGALAND	0.0	0.1	2.7	59.0	0.2	0.1	0.3	1.4	0.2	0.2	0.3	0.4	0.7	5.6	5.7	17.0	3.7	57.5	0.1	0.3			18.2	151.3
ORISSA			26.9	488.7			14.2	102.1	4.4	19.2	190.1	642.0	3.6	77.6	27.5	265.4	0.8	10.5	0.2	0.9	3.4	17.0	320.7	2048.3
PONDICHERRY			0.4	10.3			0.0	0.8			0.1	1.6			0.0	0.1					0.0	0.2	0.8	13.6
PUNJAB			0.2	10.2	0.5	12.9	7.8	171.0	1.6	23.9	6.5	103.0			44.7	900.5							69.8	1373.2
RAJASTHAN			0.1	0.8			3.1	39.5			6.3	93.5	0.8	13.3	20.6	322.8			0.8	5.5	0.0	0.1	51.1	695.1
SIKKIM	0.0	0.0	1.7	3.4			1.0	0.1	0.2	0.0					8.3	14.4							17.5	25.8
TAMIL NADU	0.0	0.1	125.4	8253.0	2.7	53.0	7.6	100.8	0.0	0.2	148.0	823.7	0.6	105.0	11.1	31.3	0.6	25.1	0.5	12.7	9.0	242.3	321.8	9965.0
TRIPURA			7.8	125.0			0.4	2.0	2.9	16.6	5.4	23.9	1.5	22.6	6.1	39.1	6.8	153.3			0.1	1.0	40.8	643.9
UTTAR PRADESH			32.4	1346.1			14.6	241.4	0.3	1.1	267.2	3623.2	0.2	11.4	0.5	1.3							324.8	5368.4
UTTARAKHAND	33.0	135.9					1.5	8.9	9.3	18.7	39.0	135.3			27.4	134.5							179.3	718.9
WEST BENGAL			42.0	1010.1			13.6	178.8	8.6	85.1	89.5	620.2	11.1	324.2	11.3	101.8	9.9	303.7			4.0	43.6	211.6	2952.8
TOTAL	289.1	2890.6	830.52	9779.9	111.4	1234.9	204.8	2462.3	77.6	497.3	2296.8	15188.4	105.6	4195.5	846.5	7463.6	88.7	1415.4	107.3	743.1	160.0	1424.1	6382.6	74877.5

Total include other fruit also.

AREA AND PRODUCTION OF VEGETABLE FOR THE YEAR 2010-11

STATE/UTS	BRINJAL		CABBAGE		CAULIFLOWER		OKRA		ONION		PEAS		POTATO		SWEET POTATO		TAPIOCA		TOMATO		TOTAL	
	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P	A	P
CHHATISHGARH	26.7	439.5	14.7	257.7	18.4	306.0	25.2	249.1	11.2	174.2	10.8	99.7	36.4	526.3	3.7	36.7			42.9	627.9	345.8	4248.8
D & N HAVELI	0.5	2.2																	0.4	1.8	1.1	5.5
DAMAN & DIU																					0.0	0.0
DELHI	1.6	30.7			5.1	94.8	1.6	22.7	1.5	27.3	0.8	11.1	0.8	18.4					1.6	31.0	29.8	496.8
GOA																					5.7	57.8
GUJARAT	72.0	1236.3	28.2	553.6	21.1	387.4	54.5	592.5	62.0	1514.1			65.3	1881.8					38.8	978.4	515.9	9379.5
HARYANA	14.6	255.2	13.8	262.4	30.3	531.9	18.2	145.3	22.2	453.9	12.7	79.0	26.8	598.2					27.2	392.4	346.4	4649.3
HIMACHAL PRADESH	1.0	25.1	4.5	144.2	3.0	60.7	2.4	29.6	2.2	35.9	22.8	254.2	15.3	206.0					9.9	388.4	80.4	1474.9
JAMMU & KASHMIR	2.6	45.3	3.5	95.5	4.5	134.8	2.9	47.5	2.8	63.5	6.8	212.5	7.9	150.7					8.3	136.6	69.7	1559.1
JHARKHAND	16.4	212.6	27.0	451.7	22.2	355.4	30.0	421.7	14.6	305.0	21.3	329.1	43.2	655.5					22.3	401.6	259.5	4112.4
KARNATAKA	14.2	354.5	9.4	187.2	4.5	77.4	8.6	71.4	190.5	2592.2	1.2	15.4	40.0	400.8	2.6	33.5	0.9	12.3	51.2	1756.7	466.3	9056.4
KERALA													1.0	0.0	0.3	4.9	72.3	2409.0			149.5	3392.7
LAKSHDWEEP																					0.4	14.1
M. P.	23.4	281.0	9.0	179.5	12.2	195.9	10.1	60.3	58.3	1021.5	22.8	251.3	62.0	743.0	5.1	29.7			27.8	346.9	283.7	3698.6
MAHARASHTRA	35.0	490.0	18.0	360.0	12.0	180.0	19.0	224.0	415.0	4905.0	8.0	35.0	18.0	318.0					52.0	738.0	611.0	7504.0
MANIPUR			5.8	74.7	2.4	23.8					4.7	46.5	1.7	15.2					2.3	28.6	22.2	236.5
MEGHALAYA													17.7	162.4	5.5	19.2	4.9	26.4			41.8	356.5
MIZORAM	2.0	12.9	2.6	33.6	0.4	3.7	2.8	18.7	0.1	0.7	0.5	2.0	0.2	2.3	0.1	0.7	0.1	0.7	0.7	6.2	17.5	115.6
NAGALAND	0.1	2.2	0.3	3.0	0.1	0.2	0.3	1.2			0.1	1.0	1.5	10.0	0.1	0.4	1.0	6.0	0.7	4.0	10.7	79.4
ORRISA	133.2	2204.8	41.2	1152.1	45.1	677.3	70.0	651.8	34.8	385.9	5.9	52.4	14.0	191.4	44.1	410.2			96.6	1367.2	553.8	7790.1
PONDICHERRY	0.2	1.5					0.1	0.6	0.1	0.4							0.2	4.0	0.0	0.1	0.6	8.8
PUNJAB	3.2	68.9	4.4	76.8	8.7	154.7	2.6	27.5	8.2	182.3	19.7	200.6	83.6	2088.4					6.3	154.5	174.1	3585.8
RAJASTHAN	6.3	30.9	1.0	8.5	8.4	39.2	4.3	12.4	49.0	494.2	3.6	4.1	10.5	75.7	1.0	2.8			16.9	67.5	140.3	885.0
SIKKIM	0.3	1.6	1.2	6.9	0.7	3.9	1.1	7.2	0.3	1.6	2.0	8.6	9.4	45.7					0.9	8.1	23.9	120.9
TAMIL NADU	12.4	203.5	1.4	78.6	0.7	13.3	5.7	46.8	33.8	338.9			4.7	97.1	0.8	12.4	134.6	5522.7	27.2	580.6	277.3	8279.9
TRIPURA	3.2	43.9	1.9	45.6	1.8	33.8	1.6	12.5					6.2	109.8					1.4	30.2	36.0	532.3
U. P.	3.0	92.1	1.6	49.5	9.3	188.5	11.1	128.8	23.2	368.6	159.2	1532.4	556.5	13576.6	16.8	206.6			6.7	248.6	829.4	17679.4
UTTARAKHAND	2.2	25.9	5.6	70.5	2.6	34.0	3.3	27.1	3.8	38.0	11.2	86.9	24.3	424.3					8.8	97.1	85.8	1030.9
WEST BENGAL	158.4	2870.6	75.3	2087.8	70.0	1777.2	74.0	862.1	21.3	298.0	21.4	129.4	406.3	13391.2	22.9	235.7			54.1	1063.7	1349.7	26725.5
TOTAL	680.0	11895.8	368.8	7948.9	368.7	6744.9	498.3	5784.0	1063.8	15117.7	369.8	3517.4	1863.2	42339.4	113.2	1046.6	221.4	8076.0	864.9	16826.4	8494.5	146554.5

Total include other fruit also.

**A BOON TO FARMERS & TRADING COMMUNITY!**

## **THE FIRST LONG DISTANCE MULTI MODAL TRANSPORT SOLUTION FOR HORTICULTURE PRODUCE**

### **THE FIRST DEDICATED HORTICULTURE TRAIN**

- ❖ A long Distance Multimodal Transport Solution for Horticulture Produce.
- ❖ Set to run as per Predetermind Time Table.
- ❖ Links Production Clusters with Major Markets.
- ❖ Aims to provide Integrated Cold Chain Solution.

### **SPECIALLY DESIGNED FREIGHT CONTAINERS COME WITH GREAT FEATURES**

- ❖ 20 Feet Hi-Cube Insulated and Ventilated Containers.
- ❖ ISO Certification by an International Certification Agency - Lloyd's Registered Asia.
- ❖ Food Grade Thermal Insulation on Walls and Ceiling from Inside.
- ❖ Ventilation Holes in Floor, Buttom Rails and Top Rails.
- ❖ Three doors for Loading & unloading at Railway Sidings and at Loading Platform.



### **NATIONAL HORTICULTURE BOARD**

Ministry of Agriculture, Government of India

An ISO 9001 : 2000 Accredited Organisation

85, Institutional Area, Sector- 18, Gurgaon - 122015 (Haryana)

Tel. : (0124/95124) - 2341209, 2341239, 2347439-42, 2348313, 2342989-92

Fax: (0124/95124) - 2342991, 2341225, E-mail : [nhbkgurgaon@gmail.com](mailto:nhbkgurgaon@gmail.com)

Website : [www.nhb.gov.in](http://www.nhb.gov.in)