

CHAPTER-II

COMMODITY- WISE STATUS

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



A vibrant assortment of fresh fruits is displayed on a white surface. In the center, a large pineapple stands upright. To its right, a watermelon is sliced into several wedges, showing its red flesh and black seeds. Below the watermelon, a cantaloupe is sliced into two large pieces, revealing its green rind and orange-red flesh with black seeds. In the foreground, a bunch of green grapes is prominent. Other fruits include several apples (red and green), pears, lemons, and various berries (strawberries, raspberries, blackberries). The overall composition is colorful and appetizing.

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
Early season	Tydemán's Early(P) Michael Molies Delicious, Schlomit	Irish Peach Benoni Starkrimson	Early Shanbury(P) Fenny Benoni Chaubattia Princess
Mid season	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)
Late season	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^o to 0^oC with exceptions
- Relative Humidity : 90-95%*
- Storage Period : 2-8 Months (depends on variety)
- Freezing Point : -1.7^oc aprox.
- Treatment for quality** – Pre storage treatment with Antioxident within a week of harvesting.
- Sensitivity 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												
PONDICHERY												

■ PEAK SEASON
 ■ LEAN SEASON
 ■ ROUND THE YEAR

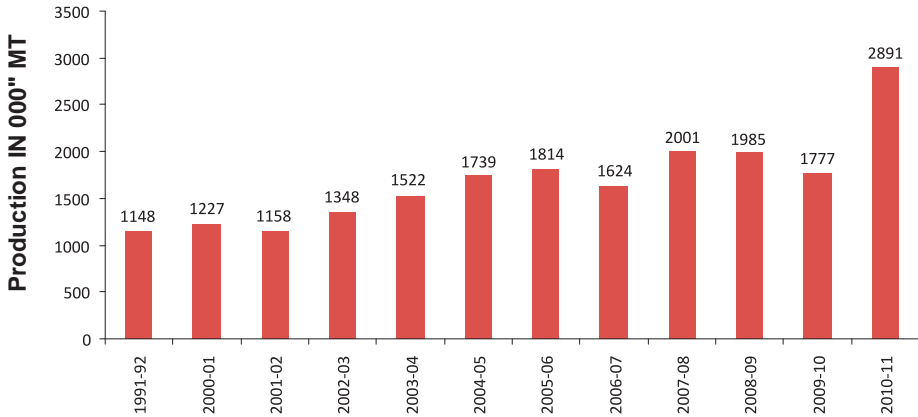
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



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



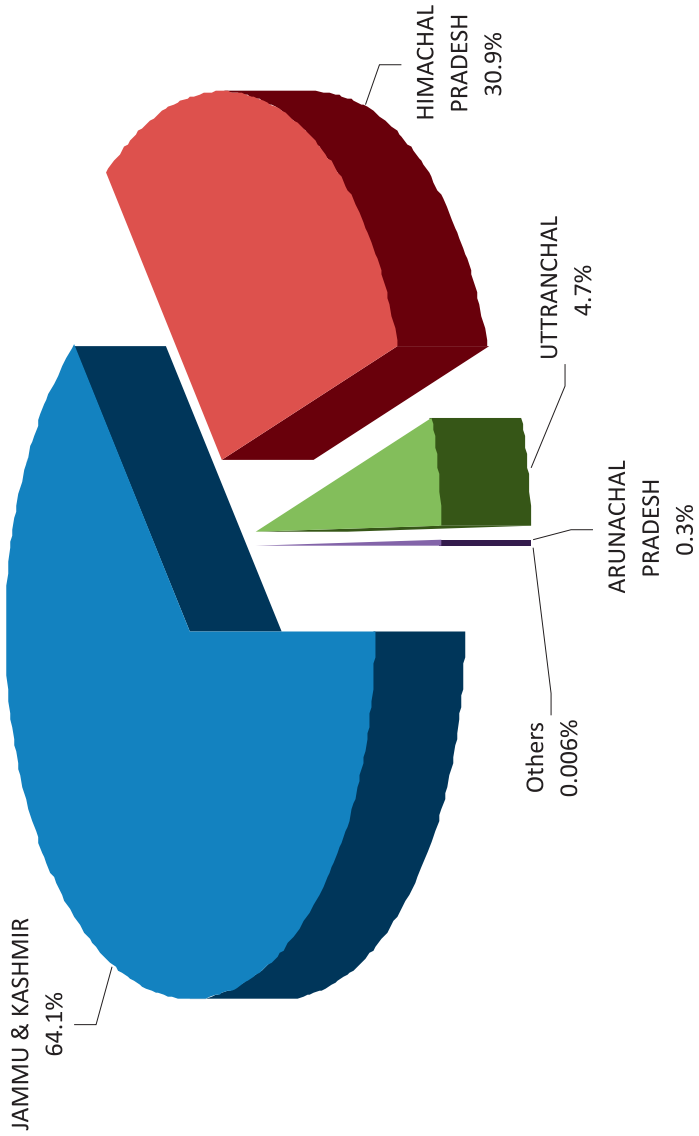
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF APPLE



State	AREA (000'HA)		PRODUCTION (000'MT)		PRODUCTIVITY HAMT	
	2008-09		2009-10		2010-11	
	Area	Production	Area	Production	Area	Production
JAMMU & KASHMIR	133.7	1332.8	10.0	1373.0	141.7	1852.4
HIMACHAL PRADESH	97.2	510.2	5.2	280.1	101.5	892.1
UTTRANCHAL	32.7	132.3	4.1	114.0	33.0	135.9
ARUNACHAL PRADESH	10.8	9.8	0.9	10.0	12.8	10.0
Others	0.0	0.1	1.4	0.2	0.1	0.2
TOTAL	274.4	1985.1	7.2	1777.2	289.1	2890.6



Leading Apple Producing States (2010-2011)



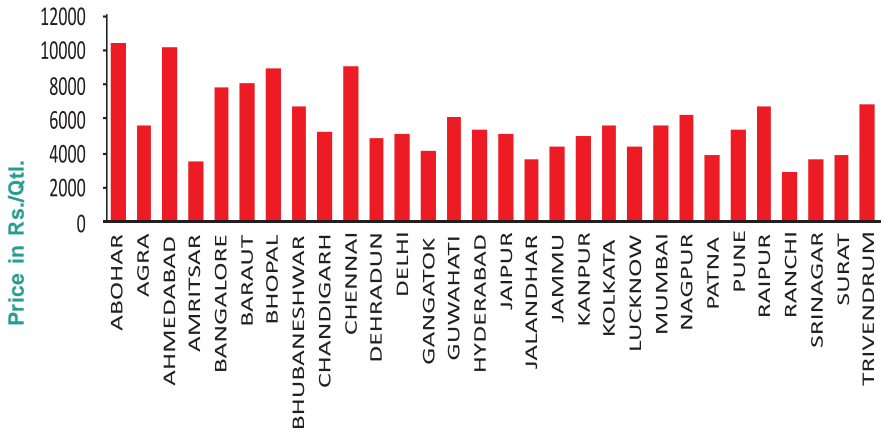
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF APPLE (KASHMIR DEL.) DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

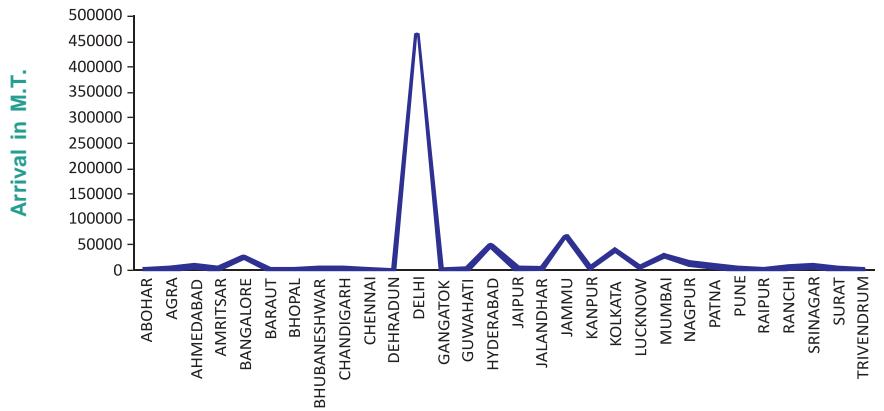
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual			
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival		
ABO HAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AGRA	4387	172	4400	126	4486	98	5438	70	5775	73	5972	72	6304	286	6719	355	6525	484	6817	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	
AMRITSAR	-	-	3500	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BANGALORE	5155	1795	6113	1315	6846	1000	8105	990	8846	940	8661	454	9948	1065	10727	560	6000	150	7962	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	4986	78	5735	49	8152	505		
BHOPAL	-	-	-	-	7057	569	8266	145	9036	116	11440	29	11350	11	6800	40	-	-	-	-	-	-	-	-	-	-	8992	
BHUBANESHWAR	5179	287	6190	237	6685	293	7764	223	8013	157	7771	57	8081	52	-	6436	93	6744	615	6001	687	6083	880	6812	3981	-		
CHANDIGARH	3906	9	4228	231	4877	335	8667	37	10316	185	-	-	2375	30	-	4375	45	-	-	-	-	-	-	-	-	4250	8	
CHENNAI	7910	456	8239	452	11500	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9216	958	
DEHRADUN	4088	102	5698	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DELHI	4187	27797	4549	13323	5402	6382	5382	3688	6487	1360	5156	232	-	-	-	5058	83726	5345	108879	5057	118518	5382	95777	5188	493842	-		
GANGATOK	4250	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GUWAHATI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HYDERABAD	5040	5424	3633	4605	4637	10346	6134	4449	5712	4293	4569	5531	5380	6481	7656	3769	6167	203	-	-	-	-	-	-	-	5456	45301	
JAI PUR	5544	155	5781	78	-	-	-	-	-	-	-	-	-	-	6195	120	-	-	-	-	-	-	-	-	-	-	-	
JALANDHAR	4440	941	4824	367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JAMMUU	4038	366	4005	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KANPUR	4105	331	4895	179	4563	146	5730	154	6650	16	-	-	-	-	5171	323	4631	12816	4784	32506	4817	15620	4140	2351	4509	64034		
KOLKATA	5585	4632	6052	1819	6293	499	6787	943	6922	54	-	-	-	-	5650	250	4656	2892	4432	1992	-	-	-	-	-	-	5110	5960
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	7396	9340	5358	7260	5780	6720	5687	26845	-	
NAGPUR	3136	920	3487	885	4673	335	8260	152	9902	197	8731	283	8610	3410	6333	1205	5638	1940	5506	1838	6096	940	5333	894	6300	12999	-	
PATNA	3838	345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUNE	6384	672	7422	234	1800	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RAIPUR	5424	226	5735	55	5654	43	6386	24	6950	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRIVENDRUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
																												160



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



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



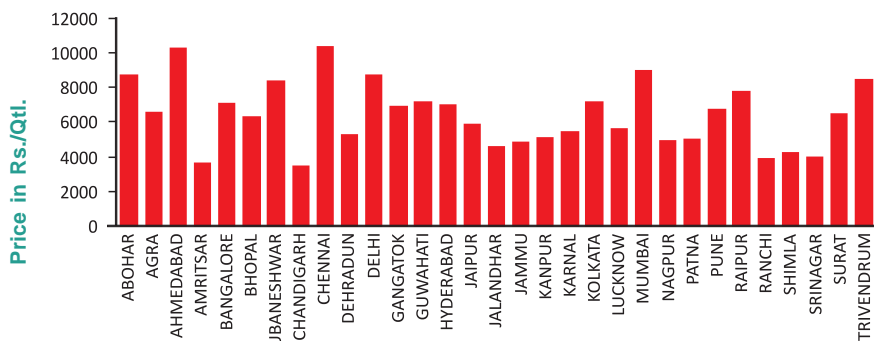
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF APPLE ROYAL (HP) DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

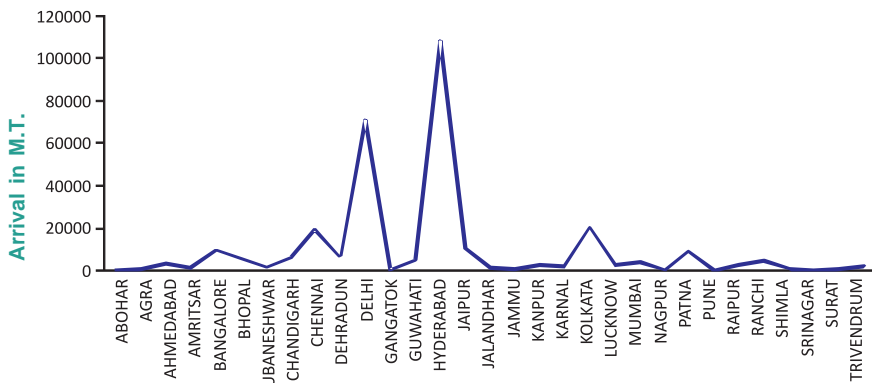
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual				
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival			
ABOHR	4590	24	5685	13	8416	25	12887	23	12600	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8636	92	
AGRA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6679	460	
AHMEDABAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10039	3469	
AMRITSAR	3128	225	3440	129	3709	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3720	1489		
BANGALORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7128	8900	
BHOPAL	3952	699	5188	427	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6383	5550	
BHUBANESHWAR	-	-	-	-	-	-	-	-	9580	28	-	-	-	9780	25	8179	336	7495	615	7088	115	-	-	-	-	-	-	8424	1119
CHANDIGARH	3947	342	4604	216	-	-	-	-	-	-	-	-	2196	817	3042	1455	3823	1584	3820	1446	-	-	-	-	-	-	-	3505	5860
CHENNAI	9292	1282	9631	1663	10635	1218	10838	798	10452	988	10108	1054	10178	1053	10333	3161	10797	2430	10915	1548	11526	1884	10900	1769	10468	18846	-	-	
DEHRADUN	-	-	6500	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5344	6309	
DEHRADUN	7210	4569	7789	2566	8758	508	9124	-	9229	108	-	-	8446	13509	8589	43844	8423	-	9509	-	11104	-	-	-	-	-	8872	71104	
DELHI	4289	25	4514	26	5906	30	7397	24	8166	25	8250	18	8396	19	7826	27	7592	27	7272	27	7256	27	6930	32	6983	306	6883	306	
GANGATOK	6235	301	7309	231	8002	275	8029	198	8440	280	7785	651	7890	338	6917	390	7215	507	7252	446	6430	452	5923	534	7286	4603	-	-	
GUWAHATI	7348	3809	5795	2733	7445	5399	7897	2081	7364	2427	6558	4809	6300	5798	8989	2110	7233	1513	5894	18905	6422	26165	8208	32641	7088	108210	-	-	
HYDERABAD	-	-	-	-	-	-	-	-	-	-	-	-	7408	234	6171	1808	5531	3427	5349	3137	5241	1622	-	-	-	-	5940	10228	
JAIPUR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1066	
JALANDHAR	-	-	5261	40	4872	99	6352	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4705	1066	
JAMMU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4400	580	4400
KANPUR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	4839
KARNAL	2876	209	3348	139	3724	69	4266	22	9519	32	8675	41	9096	35	5836	189	4861	336	5036	328	5003	308	4354	376	5550	2084	-	-	
KOLKATA	-	-	-	-	7996	553	8272	1006	7916	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7219	19689
LUCKNOW	-	-	-	-	-	-	-	6200	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5696	2980
MUMBAI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10569	9065
NAGPUR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5000	90
PATNA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5000	90
PUNE	6800	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6800	33
RAIPUR	-	-	-	-	-	-	-	-	-	-	-	-	8400	11	7892	687	7611	665	7845	522	7942	354	7281	299	7829	2538	-	-	
RANCHI	2896	574	2825	519	2226	600	-	-	-	-	-	-	3357	162	4354	484	5330	507	4868	482	4847	486	4803	590	3934	4364	-	-	
SHIMLA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5298	29
SHRINAGAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4800	50
SURAT	-	-	-	-	-	-	-	-	-	-	-	-	7833	57	6404	279	5392	313	6071	164	7000	51	6660	864	-	-	-	-	
TRIVENDRUM	-	-	-	-	2400	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8540	1891



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

Advance Technology – Planting of tissue cultured plants.

Pre-cooling – Forced air

Storage Conditions :

Temperature	:	
Holding room	:	13 ⁰ -14 ⁰ C
Ripening room	:	14 ⁰ -20 ⁰ 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^oC
- Freezing point : -0.5^oC

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.

HARVESTING SEASON OF BANANA

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

■ PEAK SEASON

■ LEAN SEASON

■ ROUND THE YEAR

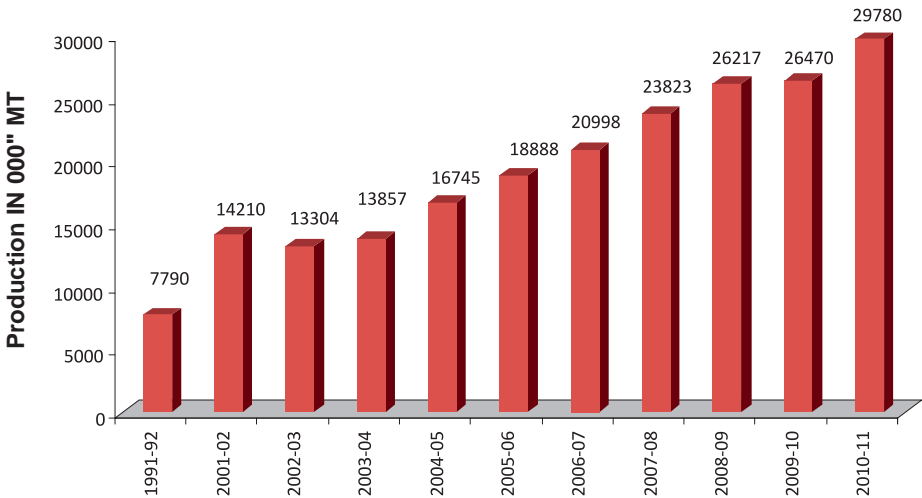
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



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



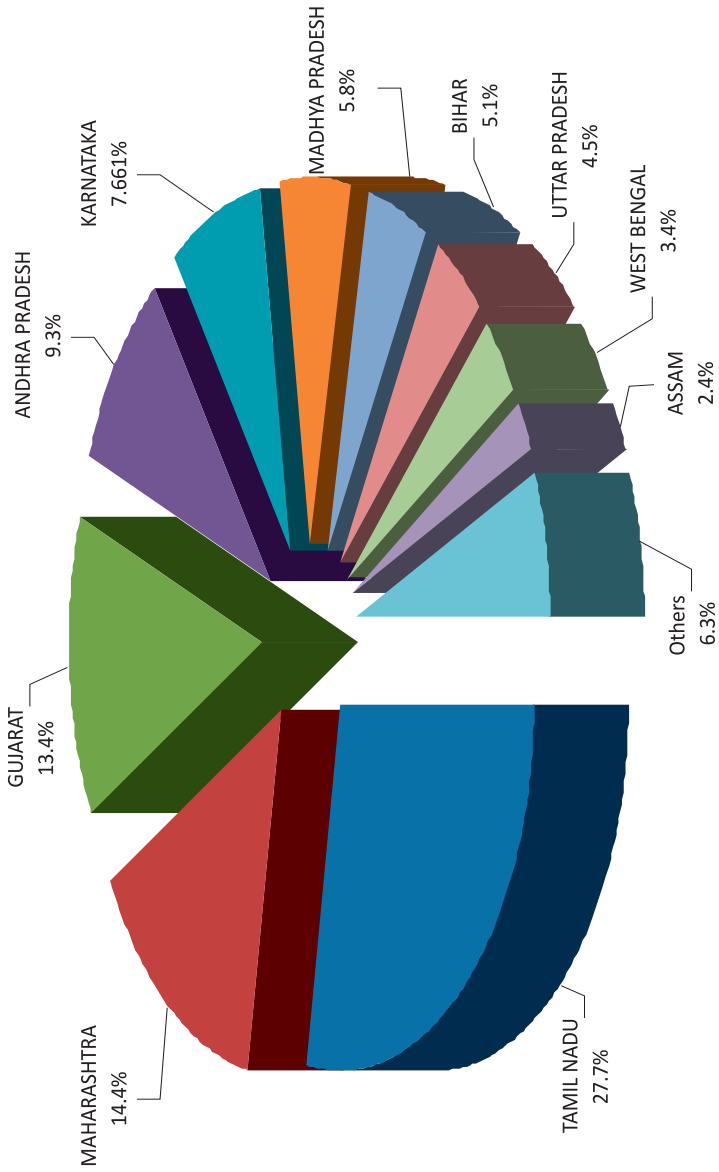
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF BANANA



State	AREA (000'HA)		PRODUCTION (000'MT)		PRODUCTIVITY HA/MT				
	2008-09		2009-10		2010-11				
	Area	Production	Pdy.	Area	Production	Pdy.			
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
TOTAL	708.8	26217.2	37.0	770.3	26469.5	34.3	830.5	29779.9	35.9



Leading Banana Producing States (2010-2011)



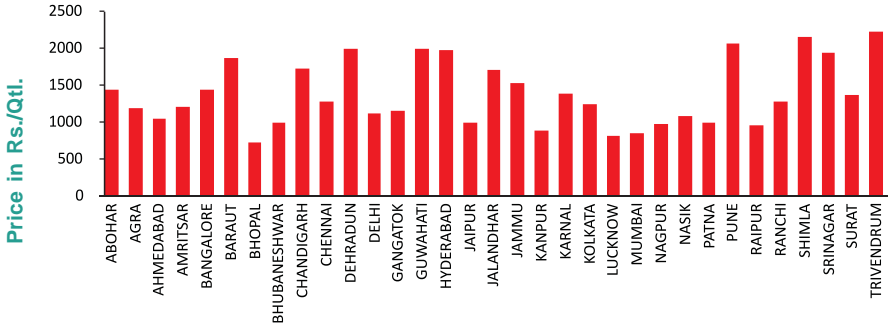
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF BANANA DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

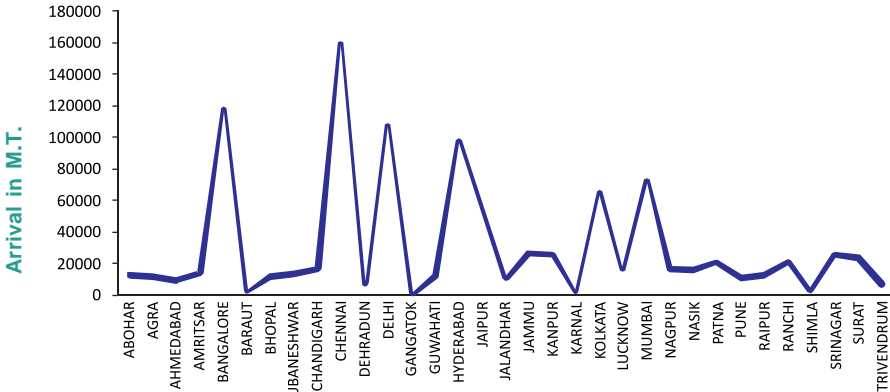
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual	
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival
ABOCHAR	1186	1015	1238	470	1360	886	1643	875	1600	1030	1473	1185	1508	1240	1404	1105	1346	1130	1448	1155	1632	975	1358	1198	1435.5	12284
AGRA	981	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	995	870	1271	1000	1494	790	1897	1691	620	918	1370	989	1310	1189	1485	905	1740	982	1280	940	935	972	1060	1187.75	13230	
BANGALORE	1342	8503	1400	8200	1435	9316	1518	8934	1546	11196	1700	11362	1893	11124	1448	10867	1232	9821	1427	8829	1063	9468	1100	8757	1430.17	116177
BARAUT	2738	149	1588	141	1482	162	2100	130	2017	159	2109	1717	1888	179	1823	176	1698	162	1729	162	1634	149	1420	155	1682	1911
BHOPAL	609	875	659	776	716	796	764	655	784	841	760	836	853	854	733	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	892	1235	902	1165	848	1550	978.08	13283
CHANDIGARH	908	985	1200	1141	1481	1138	1759	1003	2135	1252	1964	1621	1725	2559	1946	1497	1863	1497	2084	1383	1892	1500	1617	1163	1714.5	16749
CHENNAI	1150	9978	1183	9940	1300	10850	1150	8010	1352	9075	1147	9590	1344	9500	1313	28667	1365	20320	1285	1762	1300	14773	1300	144917	2265.75	67582
DEHRADUN	1658	332	2011	240	2155	549	2393	478	2376	502	2234	654	2107	886	1794	1354	1780	1006	1674	753	1761	489	1880	482	1983.58	7735
DELHI	968	3082	1199	4779	1380	6541	1790	5800	1315	5537	828	6785	975	15101	1060	13467	860	19557	975	11941	970	6980	961	5872	1105.08	105422
GANGATOK	1113	47	1140	48	1055	71	1108	55	1087	53	1088	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	3967	2615	7431	3178	9015	1655	5615	874	3399	916	18222	925	19256	3223	2680	1956.67	96837
JAIPUR	780	9154	1107	2579	1177	3424	1427	2746	1158	3765	694	4914	978	4733	1101	8465	811	7024	988	6414	863	4847	747	4333	985.92	56498
JALANDHAR	2164	1021	1942	819	1814	966	1849	838	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	1085	844	604	1005	755	1478	940	1378	669	677	2205	745	2185	838	2447	544	10843	547	3054	-	-	-	-	881.1	24767
KOLKATA	803	5667	1075	3909	1344	3789	1428	10797	1315	5330	1352	4620	1344	4397	1327	4305	1250	8103	1251	3602	1165	5198	1138	3515	1232.67	63172
LUCKNOW	578	887	644	700	914	755	1140	733	1151	827	1021	2034	797	1186	805	1498	671	3374	608	2214	568	1550	658	999	796.25	16757
KARNAL	793	5570	761	4930	851	8580	1118	4594	1124	3010	664	4550	722	5520	1056	6300	828	8340	748	6660	757	6390	711	6810	844.42	71254
MAGPUR	656	385	833	415	862	398	1125	225	1394	408	914	595	918	1655	989	2460	1119	2560	957	2390	959	2400	883	2520	969.08	16611
MASIK	1152	1570	1273	1175	1384	990	1510	350	1683	568	1245	867	763	1760	763	1760	700	2755	1265	769	1235	833	1560	1069.83	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	340	1553	933	1718	1102	1913	657	1900	739	2068	983	2280	1153	2300	672	2438	698	2506	590	2317	677	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	1570	1730	2017	654	1791	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	480	1984	303	1838	153	1868	170	2488	192	2542	191	2783	254	2146.5	2720
SIRINAGAR	1681	1955	1745	1565	1775	2210	2208	1870	2817	2757	2321	2335	1779	2430	1787	2370	1834	1332	1820	1980	1850	2070	1544	2365	1830.08	25239
SURAT	1372	1723	1384	1515	1271	1903	1248	1560	1340	1844	1219	2283	1419	2436	1794	1980	1354	2263	1381	1770	1284	1995	1270	2115	1380.5	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	2218.17	6222



Annual Wholesale Average Price Trend of Banana - 2011



Annual Total Arrival Trend of Banana - 2011



CITRUS

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

The major citrus n producing belts are as follows :

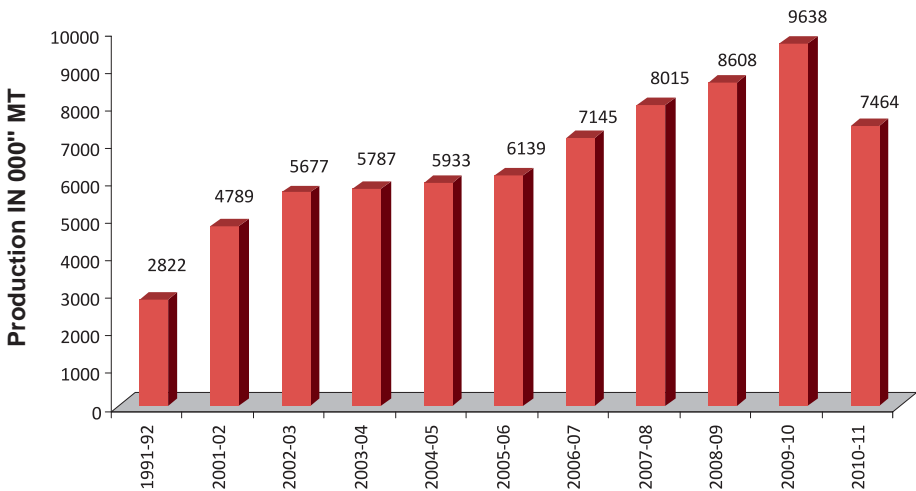
- Jammu & Kashmir (Jammu, Kathua, Udhampur, Rajauri), Himachal Pradesh (Kangra & Sirmaur) and Uttranchal.
- Punjab, Haryana and Rajasthan (Shriganganagar),
- West Bengal (Darjeeling, Jalpaiguri), Sikkim, Arunachal Pradesh and Assam,
- Rajashtan (Bharatpur, Dholpur & Sawai Madhopur) and Madhya Pradesh (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



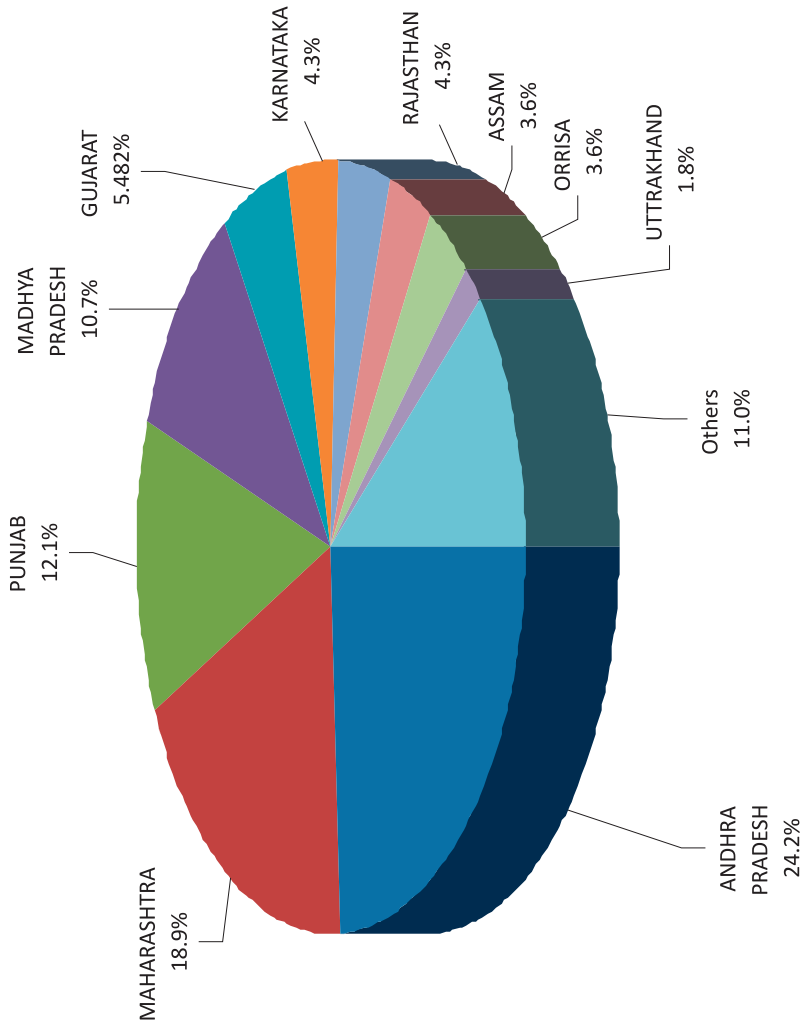
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF CITRUS



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
TOTAL	923.2	8607.7	9.3	987.3	9637.8	9.8	846.5	7463.6	8.8



Leading Citrus Producing States (2010-2011)



LIME / LEMON

Origin	– Asia.
Major Producing States	– Andhra Pradesh, Gujarat, Tamil Nadu, Karnataka, Maharashtra, Assam & Rajasthan.
Latest Production	– 21.08 Lakh Tonnes
Main Varieties	– 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	Lean							Peak	Peak	Peak	Peak	Peak
ARUNACHAL PRADESH	Round	Round	Round	Round	Round	Round	Round	Round	Round	Round	Round	Round
ASSAM	Lean	Lean	Lean	Lean	Lean	Peak	Peak	Peak	Peak	Lean	Lean	Lean
BIHAR												
CHHATTISGARH			Peak	Peak	Lean	Lean	Peak					
DELHI												
GOA												
GUJARAT								Lean	Peak	Peak	Lean	
HARYANA	Lean	Lean	Lean	Lean	Lean	Lean				Lean	Lean	Peak
HIMACHAL PRADESH	Peak	Lean							Lean	Lean	Peak	Peak
JAMMU & KASHMIR								Lean	Lean		Peak	Peak
JHARKHAND						Lean			Peak	Peak	Peak	Peak
KARNATAKA	Lean	Lean	Lean	Lean	Lean	Lean	Peak	Peak	Peak	Lean	Lean	Lean
KERALA												
MADHYA PRADESH		Lean	Lean	Lean	Lean		Peak	Peak	Peak			
MAHARASHTRA	Lean	Lean	Peak	Peak	Lean	Lean						
MANIPUR										Lean		Peak
MEGHALAYA												
MIZORAM							Lean	Peak				
NAGALAND												
ORRISA								Peak	Peak	Lean	Lean	
PUNJAB	Round	Round	Round	Round	Round	Round	Round	Round	Round	Round	Round	Round
RAJASTHAN								Peak	Lean			
SIKKIM												
TAMIL NADU	Lean	Peak	Peak			Lean						
TRIPURA				Lean	Lean	Peak	Peak	Lean	Lean	Lean		
UTTAR PRADESH							Lean					Peak
UTTARAKHAND					Peak	Peak		Lean	Lean		Peak	Peak
WEST BENGAL							Lean	Lean	Peak	Lean		
ANDMAN & NICOBAR												
CHANDIGARH												
DADAR & NAGAR HAVELI												
DAMAN & DIU												
LAKSHADWEEP												
PONDICHERRY	Peak	Lean									Lean	Lean

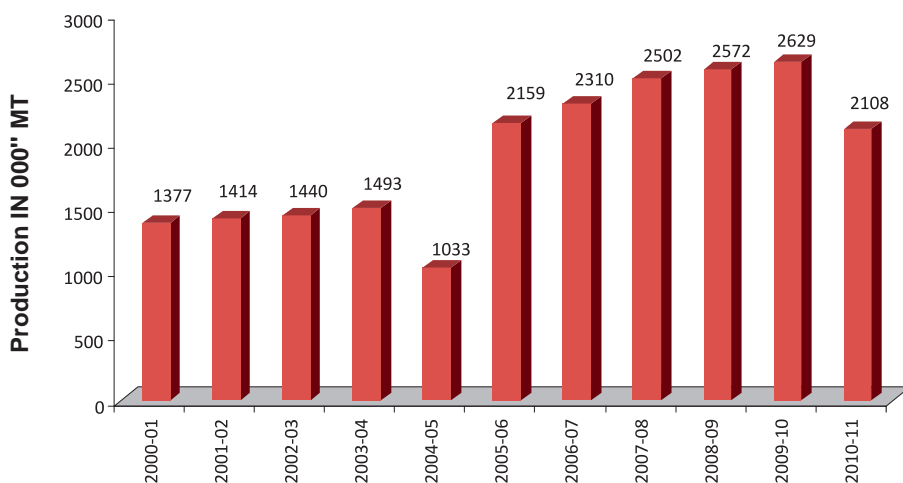
■ PEAK SEASON
 ■ LEAN SEASON
 ■ ROUND THE YEAR

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

ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF 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

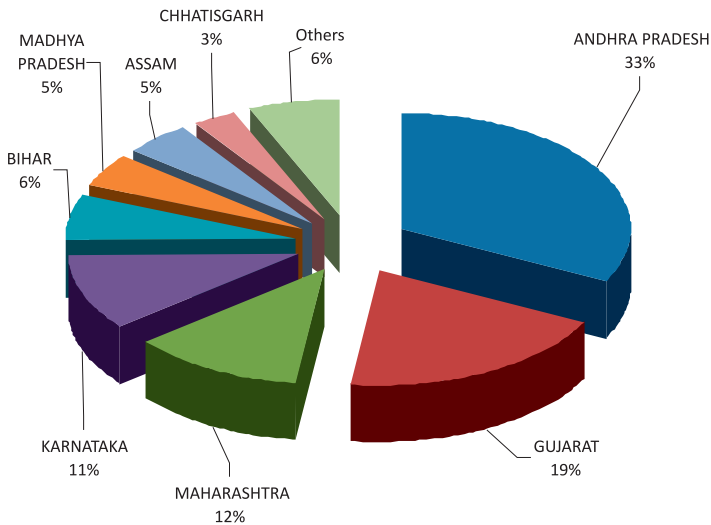




STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF LIME/LEMON

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	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
TOTAL	316.0	2571.5	8.1	295.7	2629.2	8.9	219.1	2108.0	9.6

Leading Lemon/Lime Producing States 2011



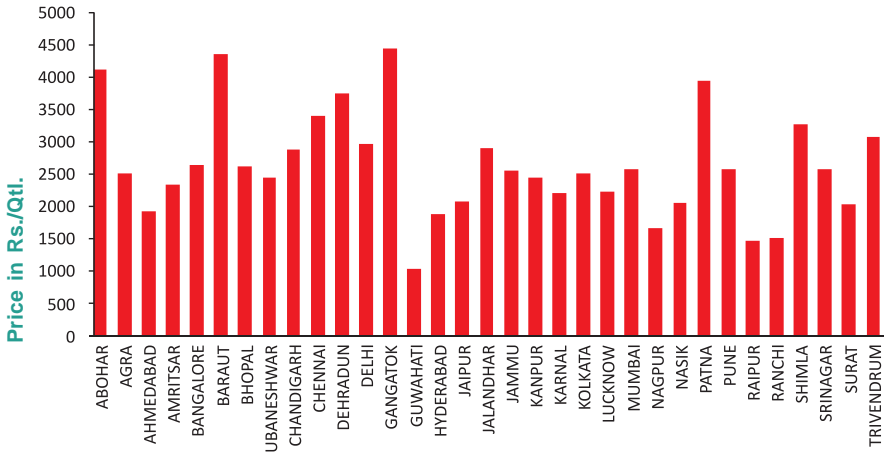
Average Wholesale Price in Rs./Qlt.
Total Arrivals in M.T.

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

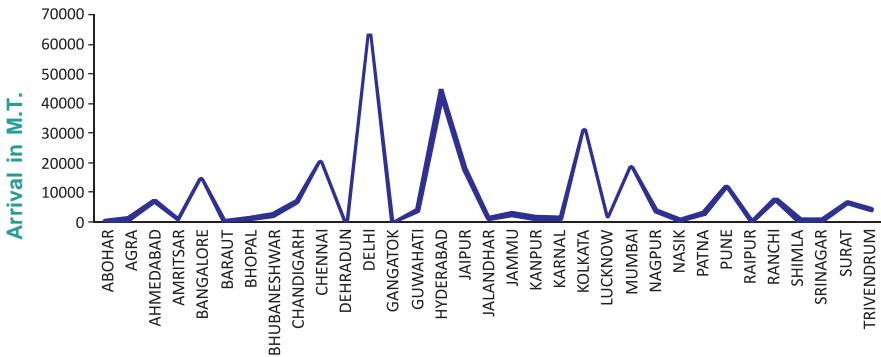
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual		
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	
ABOCHAR	-	-	-	-	-	-	3917	6	4032	32	3552	52	3548	43	4039	32	3654	33	4709	28	4614	21	4908	73	4108.11	320	
AGRA	2398	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	1867	131	1329	144	1431	173	1488	167	1695	110	2090	73	1460	107	2340.83	1185	
BANGALORE	2060	637	2793	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	9450	31	4175	24	4122	25	3731	27	4395.67	304	
BHOPAL	2684	119	3057	72	3514	107	3332	66	3956	53	4242	40	2351	151	1744	178	1806	191	1548	169	1770	361	1404	194	2811.5	1741	
BHUBANESHWAR	1809	208	3282	118	5290	118	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	3628	876	2389	1258	2146	813	2083	703	2038	583	2092	402	1693	330	2869.87	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	19699	
DEHRADUN	2774	60	3122	23	4903	29	5000	36	6007	53	5002	44	9427	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	
GANGATOK	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	286	1113	204	1004	303	877	672	828	313	813	314	851	347	998	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	
JAIPUR	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	
JALANDHAR	-	-	-	-	-	-	4814	24	4070	72	2291	507	1832	365	2298	145	2762	186	2985	100	2667	19	-	-	2902.38	1418	
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	2900	62	3970	58	4268	131	3200	252	1365	265	1163	182	1403	184	2272	140	1752	119	1619	153	2214.33	1385	
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	2866	1365	2704	2057	2128	2171	4288	1878	2144	1354	2748	1200	2544	2509.58	30734	
LUCKNOW	1588	133	2309	138	3755	100	3866	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	
MAGPUR	1363	222	2282	190	3490	212	3525	235	2521	297	1264	330	614	360	732	395	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	4387	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	60	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	56	2673	63	3286	63	4483	59	4015	72	3512	74	3272.08	679	
SRINAGAR	2423	37	2596	25	2617	28	3350	22	4617	46	2354	103	2426	56	2353	132	2426	56	2353	132	2426	56	2353	132	2426	56	2353
SURAT	1350	520	2109	256	4177	271	4223	472	4208	476	2508	646	982	806	601	678	629	648	1321	284	1519	561	739	738	2060.5	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	4318	



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 ^o 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	■	■	■				■		■	■	■	■
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

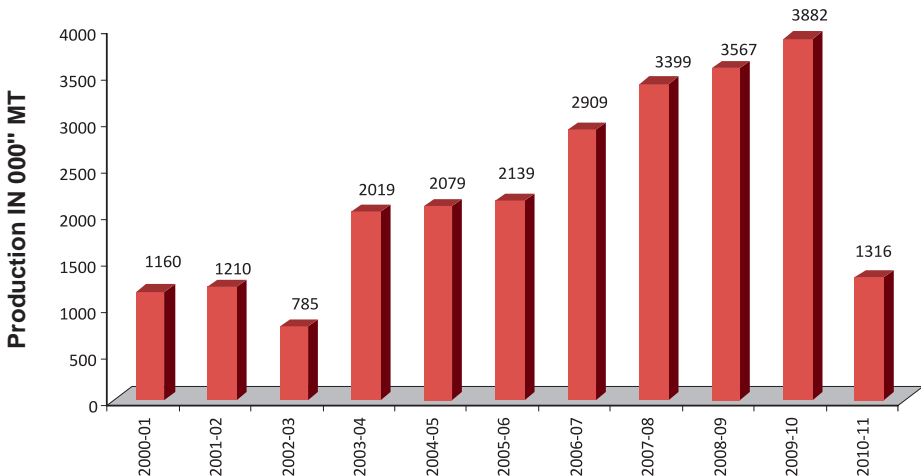
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF 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

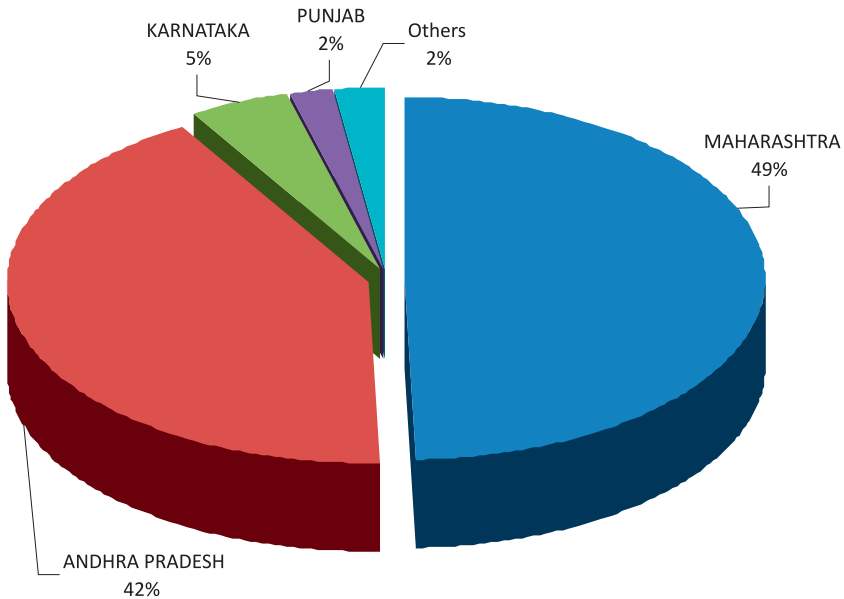
Production Trend of Mosambi



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
TOTAL	317.8	3567.4	11.2	346.4	3882.3	11.2	156.8	1316.2	8.4

Leading Mosambi Producing States During 2011



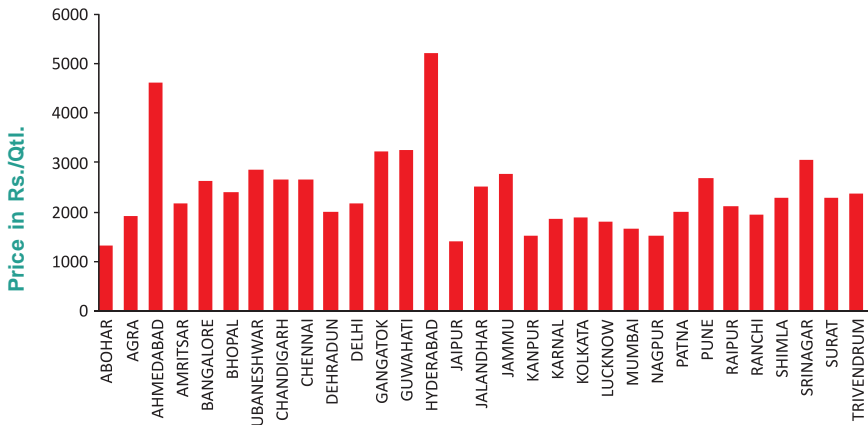
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF MOSAMBI DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

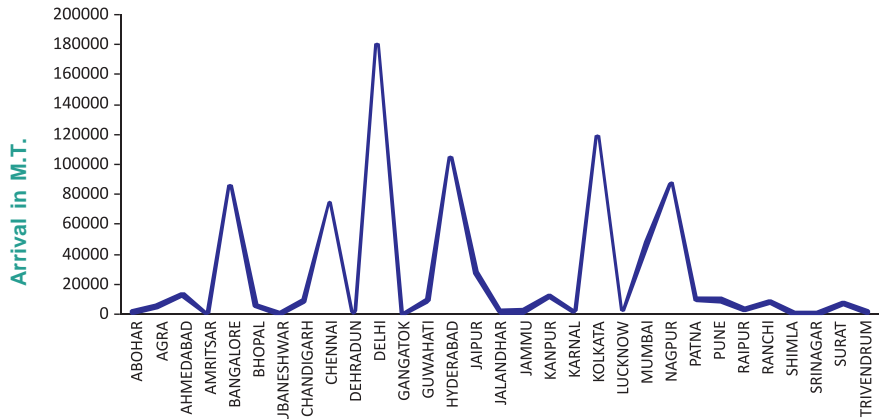
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual			
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	
ABOHAR	1396	55	-	-	-	-	-	-	-	-	-	-	-	-	1600	94	1475	94	1326	133	1330	1104	147	1339	653			
AGRA	2467	173	1436	335	1486	329	2383	310	2848	370	2125	379	1956	445	1607	530	1340	1341	522	1980	377	2220	212	1931.58	4592			
AHMEDABAD	5265	1973	2524	3827	3887	1073	4225	791	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	2626.08	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	2888	63	2660.63	3933		
CHANDIGARH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2658.13	8168	
CHENNAI	2775	1326	2287	2755	2236	3808	3340	2580	3868	3197	3224	3360	2504	3870	2185	16710	2288	12185	2515	7070	2317	6971	2405	9263	2670.39	73095		
DEHRADUN	2525	33	2407	54	1722	111	2348	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	3920	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	3972	20	3020	24	2279	21	2509	22	2406	19	2413	13	3230.08	2333		
GUWAHATI	-	-	3650	15	3216	297	3632	331	4112	427	3928	989	4269	587	3640	561	2265	912	2314	571	2311	3122	2373	614	3255.45	8436		
HYDERABAD	2056	8007	4629	4777	6808	10098	5381	5161	3268	5923	4416	5076	3608	7556	2586	7076	7276	3706	6209	17321	7198	10414	9104	18234	5206.25	103349		
JAIPUR	1250	1332	1133	1417	1495	2565	1991	2162	1991	2424	1367	2042	1524	1767	1503	2679	1320	3544	1222	2304	1182	1697	1405.92	27508				
JALANDHAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	1957		
KANPUR	1237	548	1129	870	1171	1166	2410	714	2703	610	1950	1540	1433	1569	1351	1313	984	2050	982	566	-	-	-	-	-	1535	10946	
KARNAL	2772	153	2752	125	1589	187	1932	45	2638	73	2097	131	1510	155	1483	141	1456	147	1554	160	1417	127	1323	145	1876.92	15989		
KOLKATA	1996	6876	1539	6480	2052	5520	1964	16172	2953	7152	2644	5466	2191	7168	1665	9588	1583	18464	1551	8736	1459	13968	1319	11537	1908.83	117097		
LUCKNOW	-	-	1578	210	1457	237	2296	367	2877	273	2190	918	1735	461	1649	349	1519	591	1511	351	1632	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	5730	1662.75	46846		
MAGPUR	1457	4480	1124	8300	1476	8220	2676	4950	2280	3920	2023	3030	1793	3220	2298	5790	1089	11058	1086	19000	1083	8400	1001	5180	1530.5	85558		
PATNA	1625	285	1552	630	1623	1365	2515	495	2267	510	2256	5995	2259	9298	830	1791	1440	1780	1380	1674	1275	1500	55	1995.83	10155			
PUNE	2620	954	2594	1139	2459	792	3750	441	4897	394	3397	673	2229	1131	2173	1183	2200	805	2350	680	2150	437	1453	800	2692.67	9429		
RAIPUR	1878	260	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3062.5	205
SURAT	2706	420	2559	232	2238	594	2877	582	4148	238	2904	373	2483	469	1971	552	1675	583	1425	662	1346	948	1242	816	2297.83	6459		
TRIVENDRUM	2353	48	2052	63	2085	46	2338	4	2467	36	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 mandarin 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

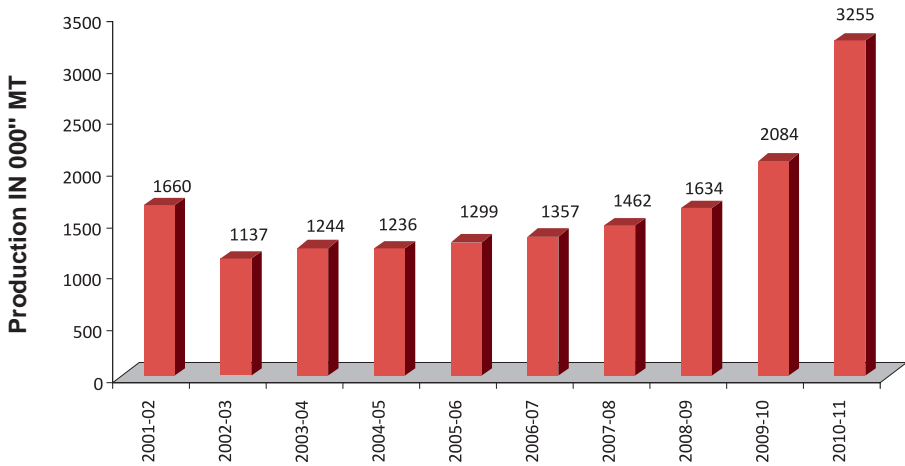
■ ROUND THE YEAR

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

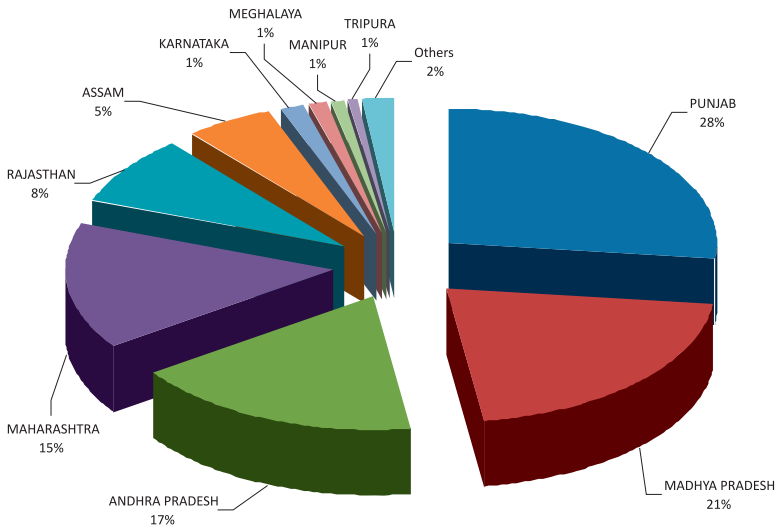




STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF ORANGE

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.
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
TOTAL	245.49	1633.95	6.7	285.0	2084.0	7.3	323.8	3255.2	10.1

Leading Orange Producing States 2011



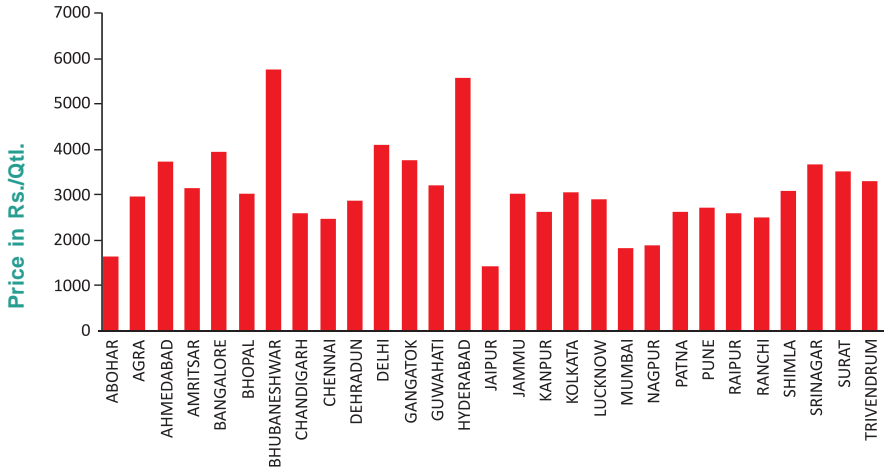
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF ORANGE DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

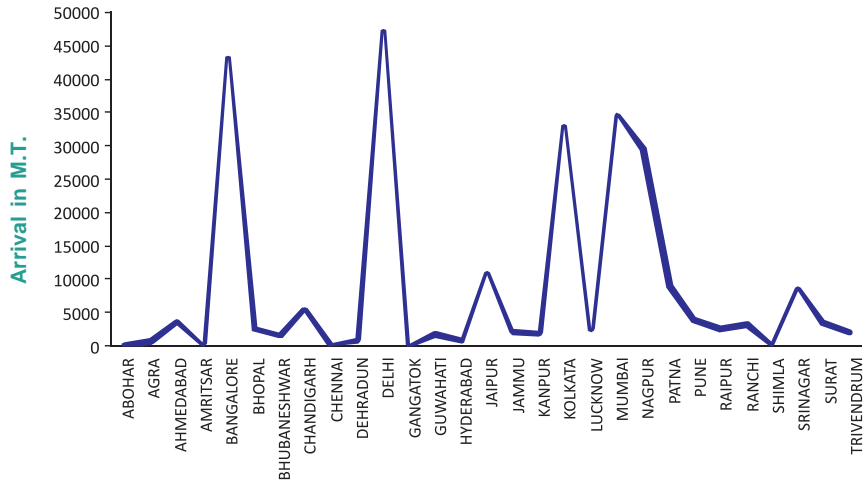
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual		
	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival
ABOHR	-	-	-	-	-	-	-	-	12117	24	13486	26	12960	25	12435	23	10417	29	6761	60	7714	47	8417	56	10540	290	
AGRAABOHR	-	-	-	-	2700	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AGRA	-	-	-	-	2352	670	3623	202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AHMEDABAD	-	-	2827	436	3677	1013	3593	824	3658	341	4200	78	5500	19	-	-	-	-	-	-	-	-	-	-	-	-	-
AMRITSAR	3354	40	-	-	3398	70	3910	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BANGALORE	4125	903	3250	2918	3221	7096	5045	6016	5190	6615	4242	814	4673	609	4942	1620	3619	1611	3648	1251	3206	2073	2356	11383	3959.75	42909	
BHOPAL	3360	234	2250	623	2328	728	3182	248	4000	2	4500	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHUBANESHWAR	5352	35	3672	81	4263	166	7231	51	7476	40	7623	42	7892	45	7294	44	8017	45	4947	81	3162	366	2479	680	5784	1676	
CHANDIGARH	2359	673	2238	629	2363	722	2832	695	3000	65	2800	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHENNAI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEHRADUN	2800	1	2967	118	2909	334	3991	135	-	-	-	-	2400	10	-	-	-	-	-	-	-	-	-	-	-	-	-
DELHI	4680	2173	3618	8968	4456	13732	5472	2176	5861	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GANGATOK	3253	39	3496	33	4011	29	4574	20	5521	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUWAHATI	2507	511	3988	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYDERABAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JAIPUR	-	-	-	-	1462	1574	1288	4002	1622	3268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JAMMU	2832	169	3105	396	3200	758	4077	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANPUR	1900	214	2052	949	2883	652	3675	217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KOLKATA	4097	2254	2805	3380	3165	3488	4328	4643	3838	448	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LUCKNOW	-	-	-	-	2203	950	2784	842	3476	490	4015	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MUMBAI	1983	3830	1736	3150	1755	7370	2082	2678	2000	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANGALURU	2164	2648	1945	6324	2729	2567	3319	497	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PATNA	2300	105	2368	885	2788	2205	4315	440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUNE	2755	864	2139	1071	3539	667	4833	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAIPUR	3082	186	2235	746	2825	722	4818	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RANCHI	2625	186	2663	497	2968	684	3594	397	4549	316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHIMLA	3209	69	3317	44	3144	74	3200	31	3292	20	2400	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SRINAGAR	3536	651	3264	1223	3770	1125	4572	443	3550	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SURAT	3385	1728	2845	525	3535	354	5311	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRIVENDRUM	3078	127	2309	126	2583	349	3908	207	4220	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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

■ PEAK SEASON
 ■ LEAN SEASON
 ■ ROUND THE YEAR

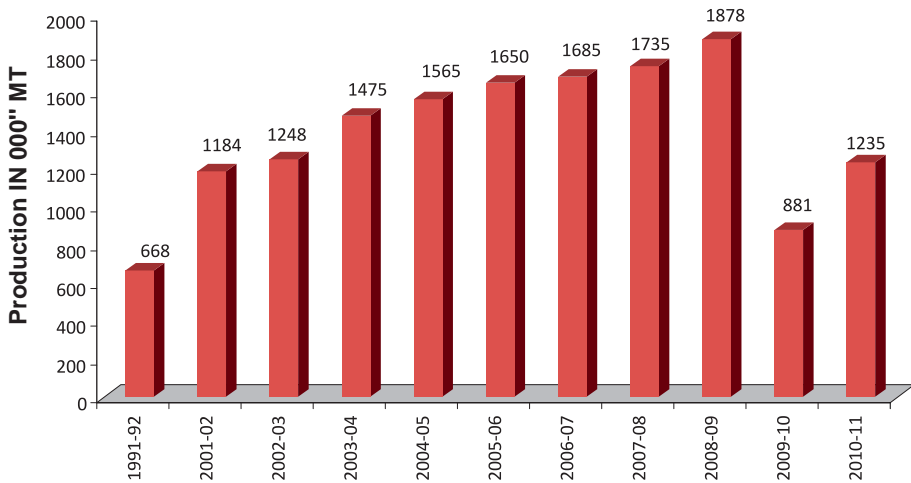
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF 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



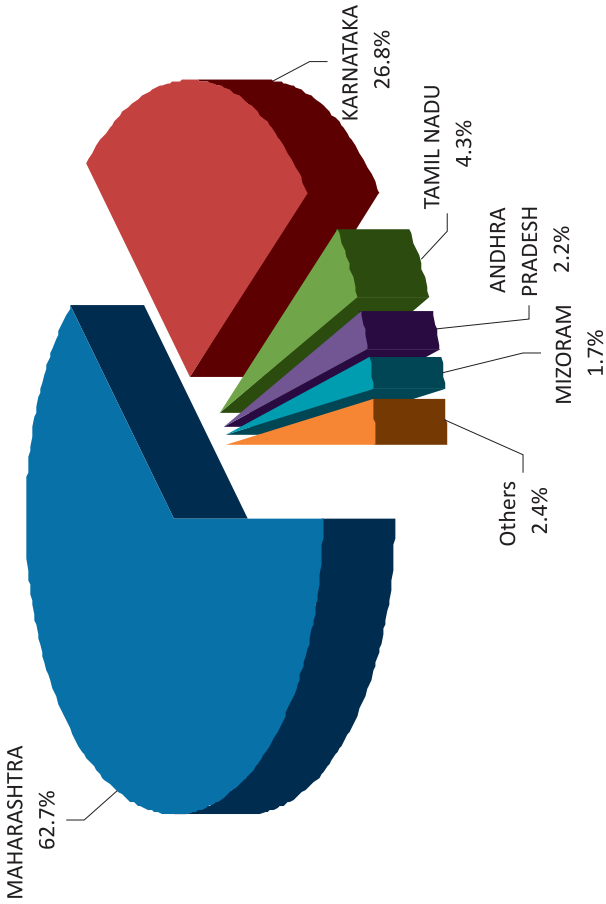
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF GRAPE



State	AREA IN 000' HA		PRODUCTION IN 000' MT		PRODUCTIVITY HA/MT				
	2008-09		2009-10		2010-11				
	Area	Production	Pdy.	Area	Production	Pdy.			
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
TOTAL	79.6	1878.3	23.6	106.4	880.7	8.3	111.4	1234.9	11.1

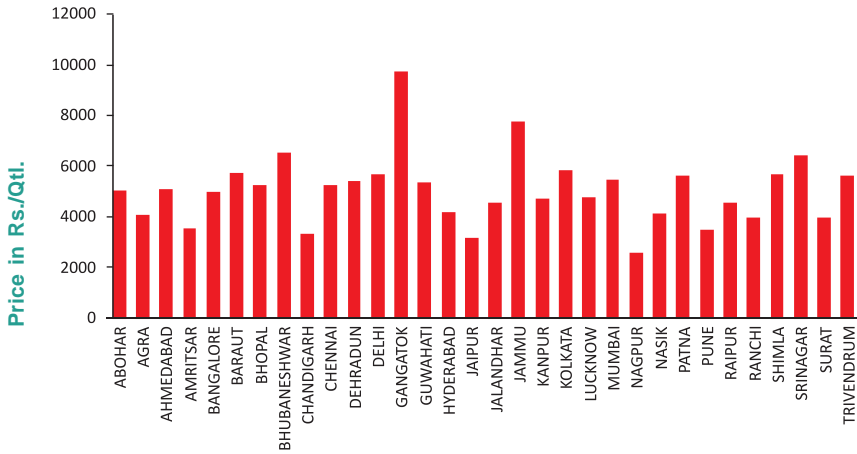


Leading Grape Producing States (2010-2011)

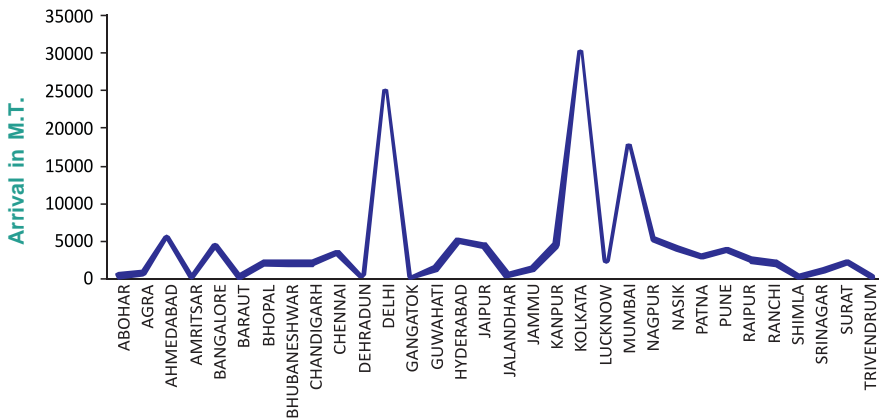




Annual Wholesale Average Price Trend of Grape - 2011



Annual Total Arrival Trend of Grape - 2011



GUAVA

- Origin** – Tropical America
- Major Producing States** – Bihar, Uttar Pradesh, Karnataka, Madhya Pradesh, Gujarat, Andhra Pradesh & Maharashtra
- Latest Production** – 24.62 Lakh Tonnes
- Main Varieties** – 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.
- Advanced Technology** – High density planting
- Pre-cooling** – Forced air
- Storage Conditions**
- | | | |
|-------------------|---|-----------|
| Temperature | : | 7-10°C |
| Relative Humidity | : | 85-90% |
| Storage period | : | 3-3 weeks |
- Treatment for Quality** – Vacuum infiltration of packaged fruits in 10% 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.
- Sensibility to** – Refregeration and Ethylene
- Growing Belts**



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

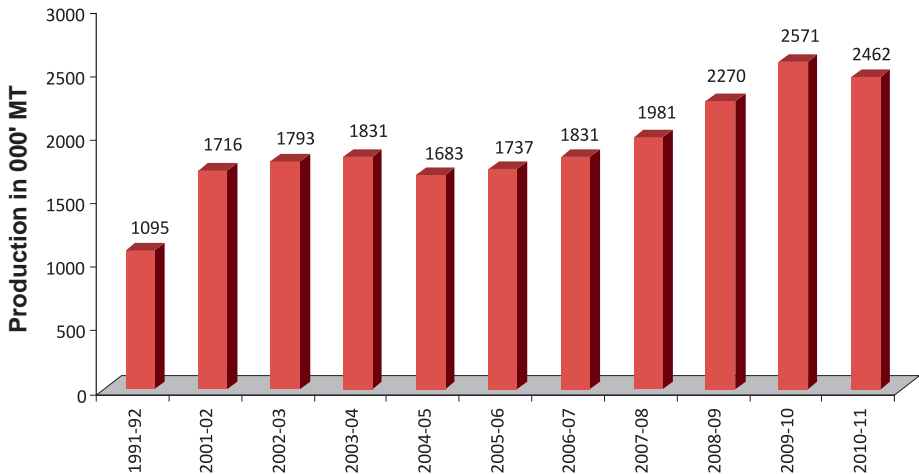
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



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



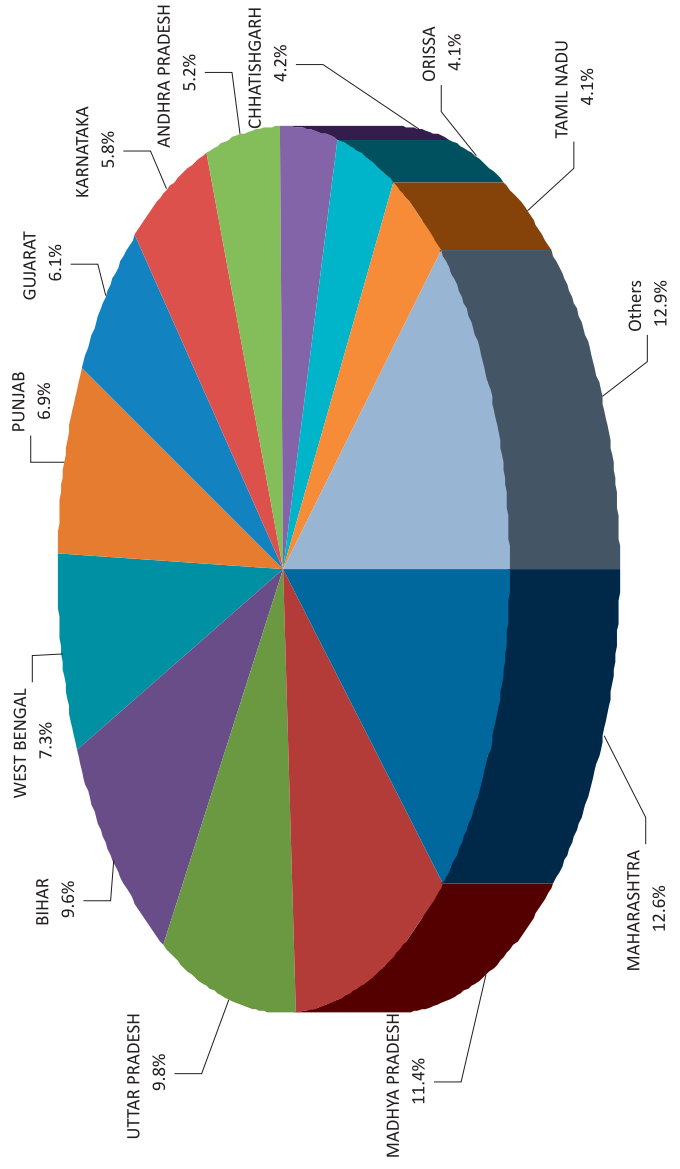
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF GUAVA



State	AREA IN 000' HA		PRODUCTION IN 000' MT		PRODUCTIVITY HA/MT					
	2008-09		2009-10		2010-11					
	Area	Production	Pdy.	Area	Production	Pdy.				
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		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	
TOTAL	203.7	2270.1	11.1	219.7	2571.5	11.7	204.8	2462.3	12.0	



Leading Guava Producing States (2010-11)



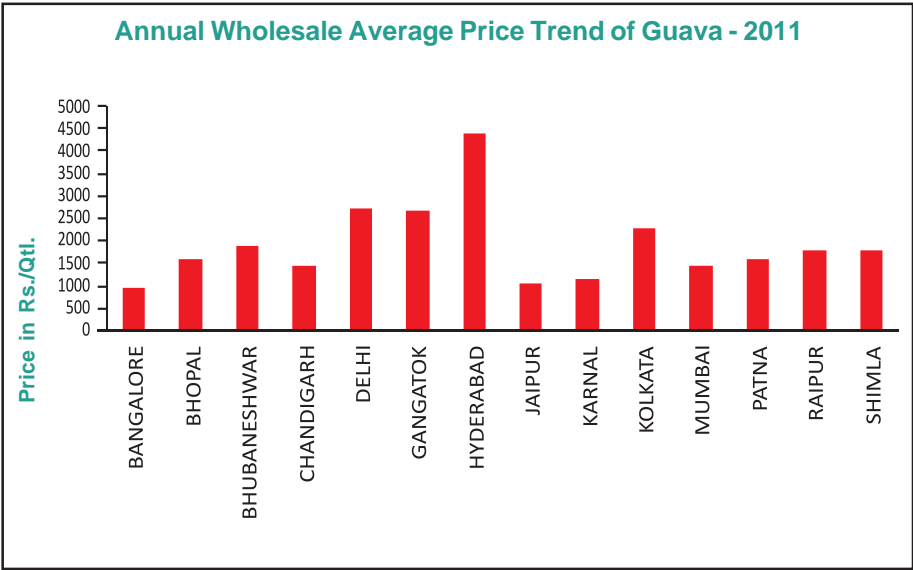
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF GUAVA DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

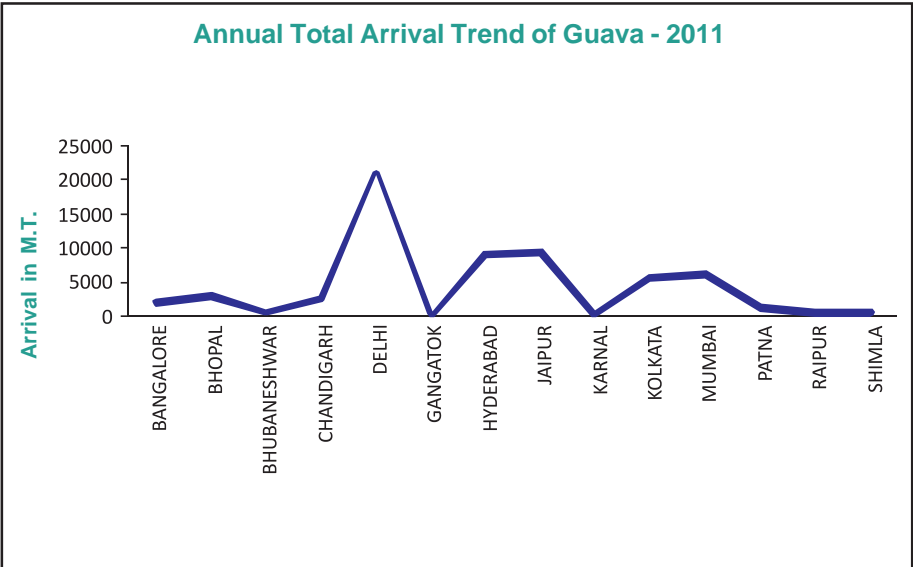
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual					
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival		
BANGALORE	1135	66	885	61	912	99	932	123	92	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	1583.2	2948				
BHUBANESHWAR	1704	34	2072	33	1606	38	1700	49	1965	29	1894	48	1733	45	1494	39	1887	42	2155	30	2023	35	2055	45	1874.08	467				
CHANDIGARH	1185	530	1583	381	1797	92	-	-	-	-	-	-	-	-	-	-	975	548	-	-	1420	375	1851	467	1435.17	2373				
DELHI	1872	4057	2583	2205	3486	481	4583	7	-	-	-	-	3250	26	2525	1624	1817	3008	2577	1083	2222	4204	2368	4304	2728.3	21009				
GANGATOK	2106	12	2284	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	1022	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	2495	888	2222	563	1804	396	1444	343	1403	466	1541	378	2823	322	4021	127	-	-	2283	5638				
MUMBAI	1574	639	1437	338	1668	220	-	-	-	-	-	-	-	-	1425	583	1332	2334	1342	542	1277	676	1462	741	1439.63	6083				
PATNA	1542	255	1616	100	-	-	-	-	-	-	-	-	1650	50	-	-	-	-	-	-	-	-	1665	365	1533	250	1601.2	1020		
RAIPUR	1602	69	1680	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2168	52	1654	100	1776	266			
SHIMLA	1687	86	1614	54	1753	46	1955	51	-	-	-	-	-	-	-	-	-	-	-	-	-	1693	23	2112	85	1804	315			



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

Bihar	– Shahi, Rose Scented, China, Kasba, Purbi, Early Bedana, Late Bedana
Uttar Pradesh	– Rose Scented, Dehradun, Calcuttia
West Bengal	– Bombay Green, Kalyani Selection
Punjab –	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 – Refreegeration and Ethylene

Growing Belts

The major litchi producing belts are as follows :

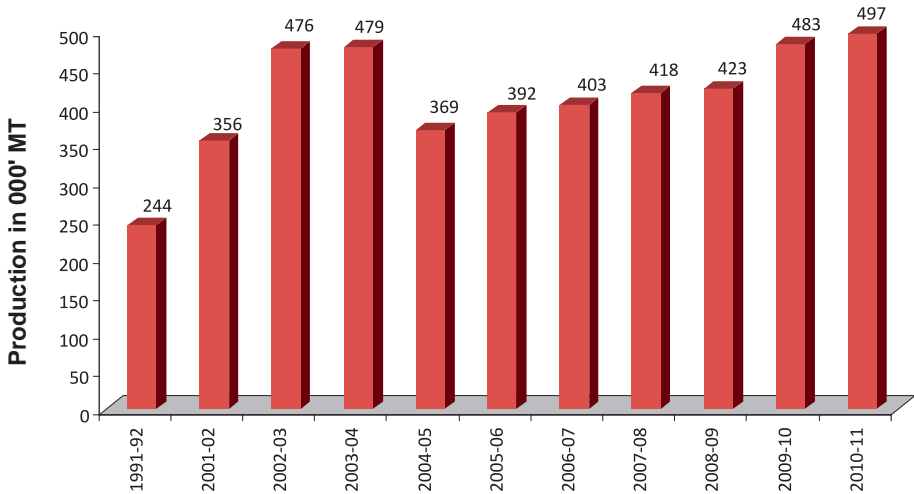
- Uttaranchal (Dehradun, Pithauragarh, Nainital, Haridwar)
- West Bengal (Murshidabad, 24 - Paraganas)
- Bihar (Muzzafarpur, East Champaran, Samastipur, Vaisali, Bhagalpur)
- Assam (Kamrup, Sonitpur, Bongaigaon)
- Punjab (Gurdaspur, Ropar, Hoshiarpur)
- Uttar Pradesh (Saharanpur,)
- Jharkhand & Tripura



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



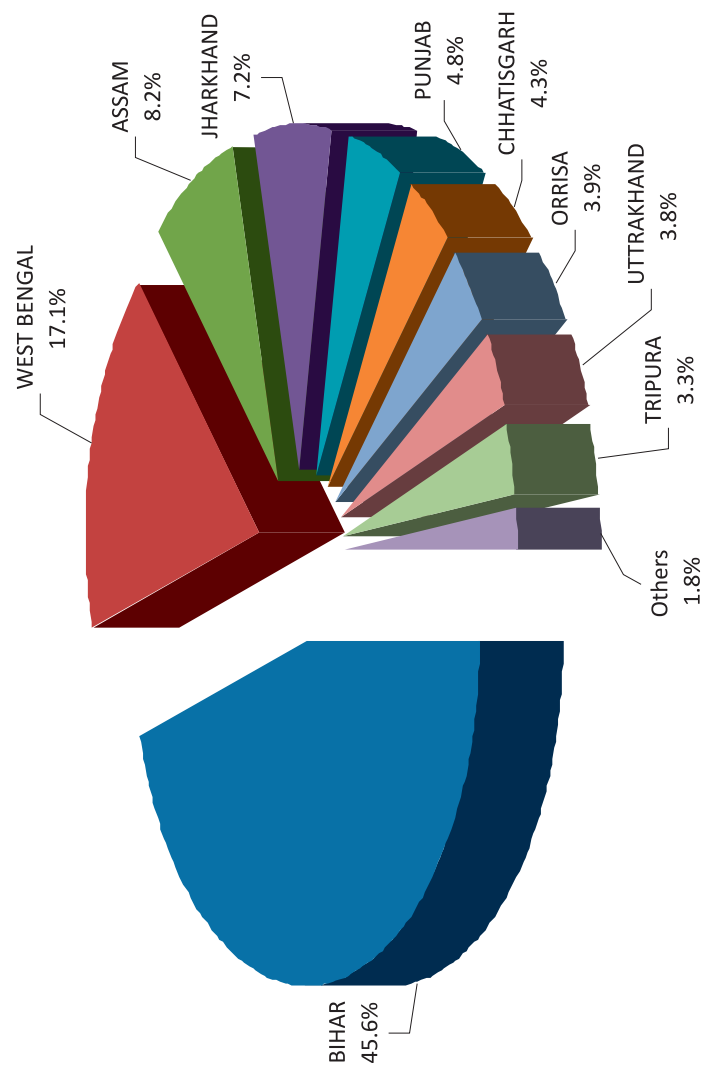
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF LITCHI



State	AREA IN 000' HA		PRODUCTION IN 000' MT		PRODUCTIVITY HA/MT				
	2008-09		2009-10		2010-11				
	Area	Production	Area	Production	Area	Production			
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
TOTAL	71.9	423.4	5.9	74.4	483.3	6.5	77.6	497.3	6.4



Leading Litchi Producing States (2010-11)



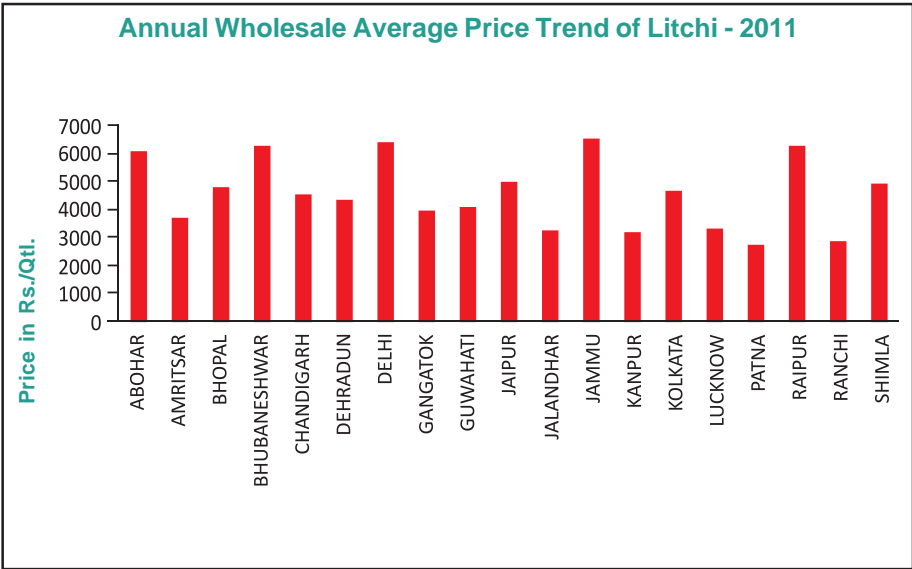
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF LITCHI DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

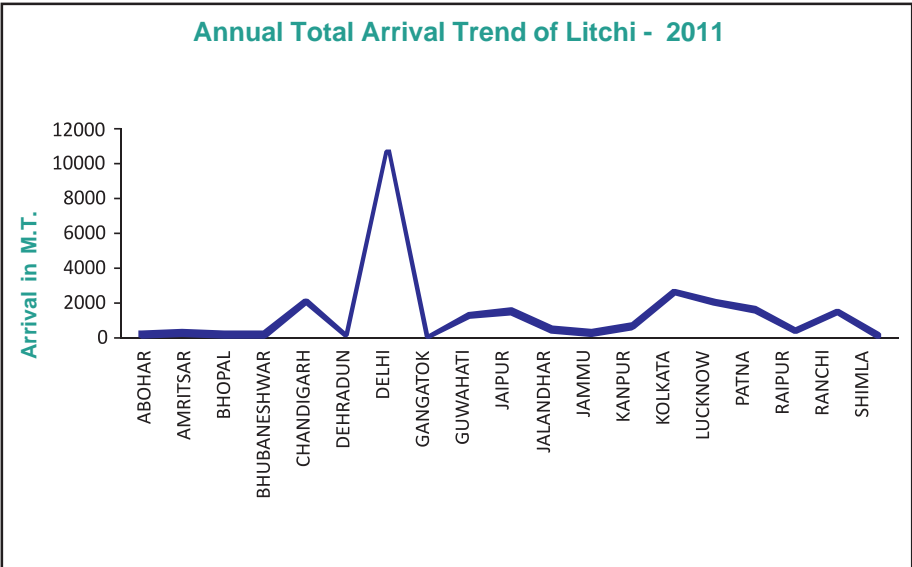
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual			
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	
ABOHR	-	-	-	-	-	-	-	-	-	-	5393	40	5584	30	7167	15	-	-	-	-	-	-	-	-	-	-	6086.33	85
AMRITSAR	-	-	-	-	-	-	-	-	-	-	3707	187	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3707	187
BHOPAL	-	-	-	-	-	-	-	-	-	-	4779	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4779	84
BHUBANESHWAR	-	-	-	-	-	-	-	-	-	6635	23	5823	55	-	-	-	-	-	-	-	-	-	-	-	-	-	6232	78
CHANDIGARH	-	-	-	-	-	-	-	-	-	4079	281	4500	1451	5586	236	-	-	-	-	-	-	-	-	-	-	-	4548.33	1948
DEHRADUN	-	-	-	-	-	-	-	-	-	-	-	4266	122	4330	15	-	-	-	-	-	-	-	-	-	-	-	4268	137
DELHI	-	-	-	-	-	-	-	-	-	6313	2496	5240	7642	7453	384	-	-	-	-	-	-	-	-	-	-	-	6335.33	10522
GANGATOK	-	-	-	-	-	-	-	-	-	-	-	5442	19	-	-	-	-	-	-	-	-	-	-	-	-	-	3971	19
GUWAHATI	-	-	-	-	-	-	-	-	-	4115	241	4016	915	-	-	-	-	-	-	-	-	-	-	-	-	-	4065.5	1156
JAIPUR	-	-	-	-	-	-	-	-	-	5232	470	4694	998	-	-	-	-	-	-	-	-	-	-	-	-	-	4978	1468
JALANDHAR	-	-	-	-	-	-	-	-	-	-	-	3251	232	3229	122	-	-	-	-	-	-	-	-	-	-	-	3240	414
JAMMU	-	-	-	-	-	-	-	-	-	6500	27	5813	200	7220	28	-	-	-	-	-	-	-	-	-	-	-	6511	255
KANPUR	-	-	-	-	-	-	-	-	-	3381	216	3014	336	-	-	-	-	-	-	-	-	-	-	-	-	-	3197.5	592
KOLKATA	-	-	-	-	-	-	-	-	-	4601	1031	4704	1454	-	-	-	-	-	-	-	-	-	-	-	-	-	4652.5	2485
LUCKNOW	-	-	-	-	-	-	-	-	-	4061	148	2982	1728	2933	30	-	-	-	-	-	-	-	-	-	-	-	3315.33	1906
PATNA	-	-	-	-	-	-	-	-	-	3107	530	2304	1005	-	-	-	-	-	-	-	-	-	-	-	-	-	2705.5	1535
RAIPUR	-	-	-	-	-	-	-	-	-	6579	180	5866	149	-	-	-	-	-	-	-	-	-	-	-	-	-	6217.5	329
RANCHI	-	-	-	-	-	-	-	-	-	3061	293	2717	1031	-	-	-	-	-	-	-	-	-	-	-	-	-	2888	1324
SHIMLA	-	-	-	-	-	-	-	-	-	-	-	5493	14	4410	29	-	-	-	-	-	-	-	-	-	-	-	4930	43



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

Mango hybrids and their characters

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



- Advanced Technology** – High density planting
Pre-cooling – Forced air

Storage Conditions

Temperature	: 13 ^o C
Relative Humidity	: 85-90%
Storage period	: 2-3 weeks
Freezing point	: -1 ^o 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	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	Lean				
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												
PONDICHERY				Lean	Lean	Peak	Peak	Lean				

■ PEAK SEASON
 ■ LEAN SEASON
 ■ ROUND THE YEAR

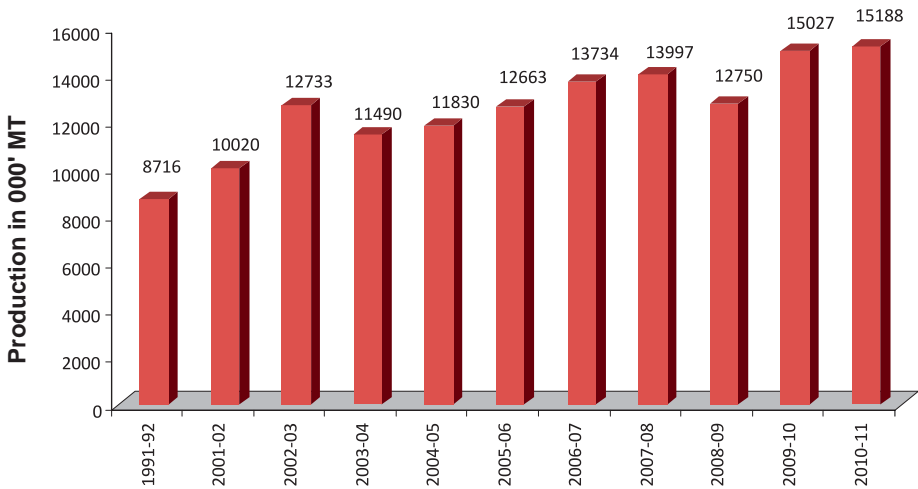
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



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

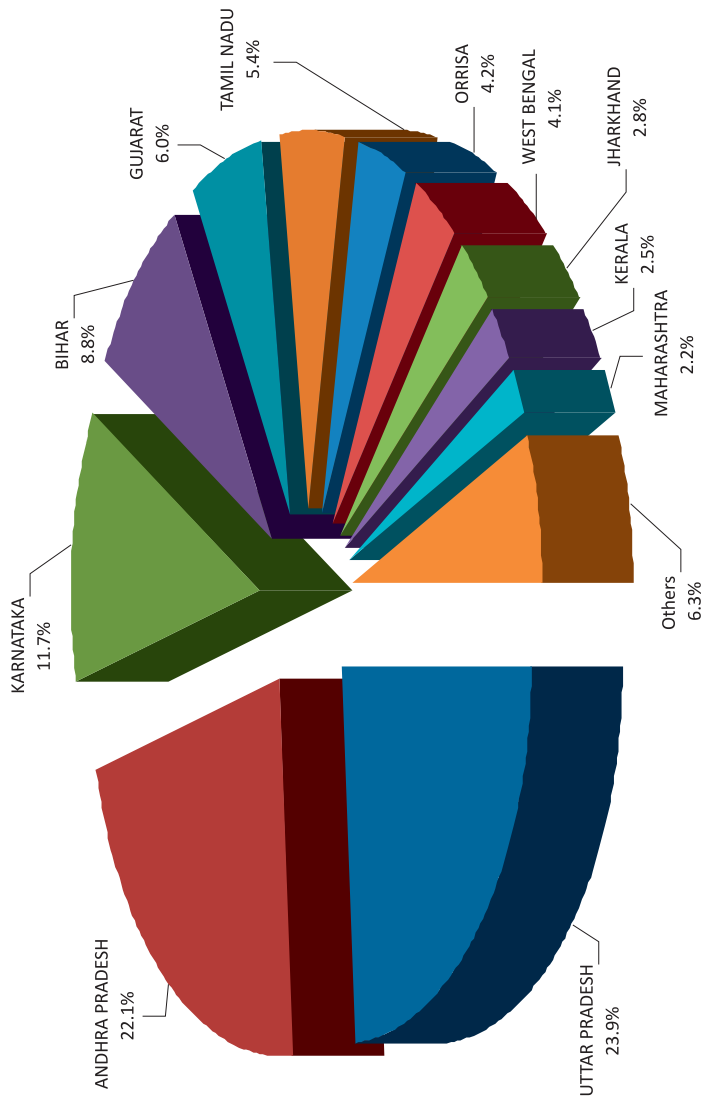


AREA IN 000' HA PRODUCTION IN 000' MT PRODUCTIVITY HA/MT

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
TOTAL	2309.0	12749.8	5.5	2312.3	15026.7	6.5	2296.8	15188.4	6.6

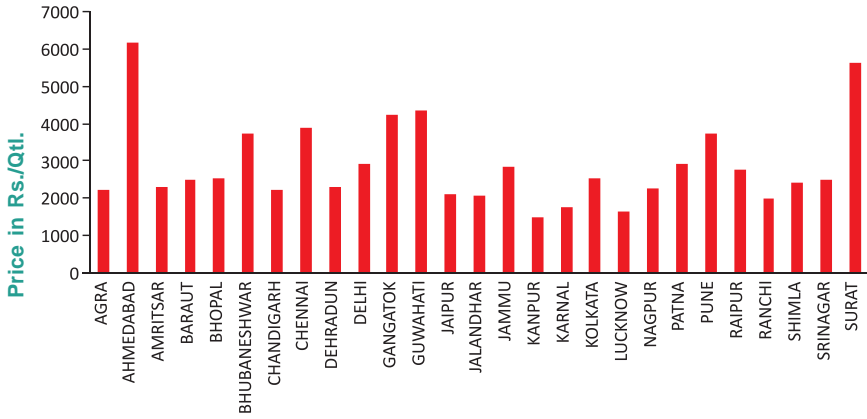


Leading Mango Producing States (2010-11)

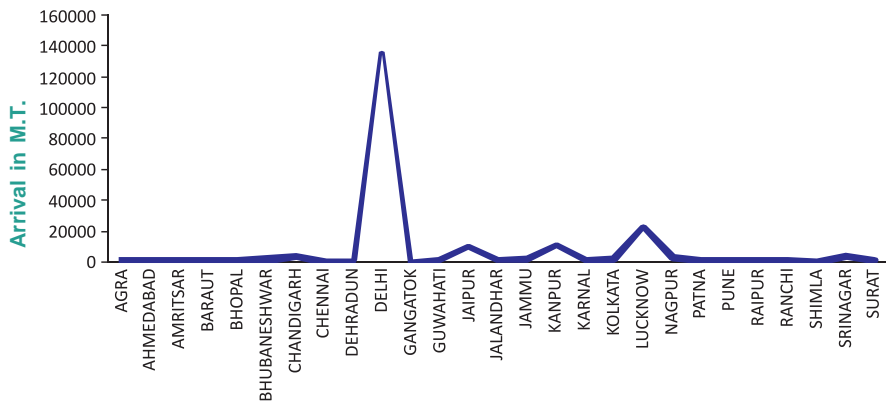




Annual Wholesale Average Price Trend of Mango (Dushehari) - 2011



Annual Total Arrival Trend of Mango (Dushehari) - 2011



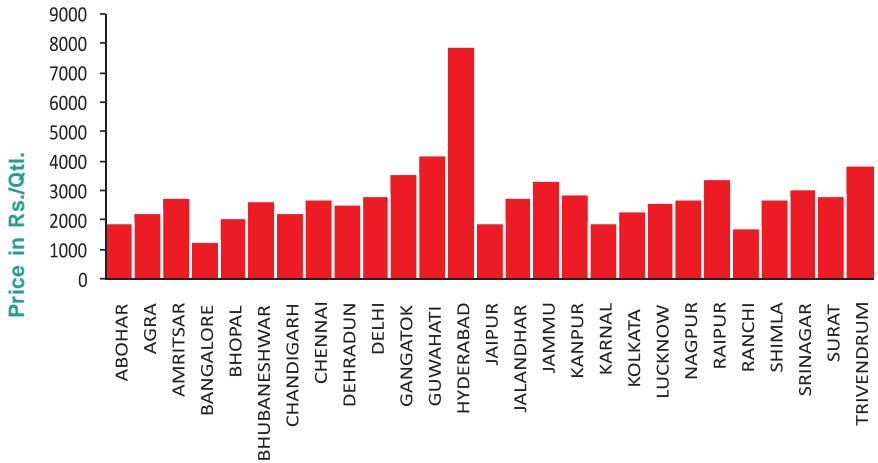
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF MANGO (SAFEDA) DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

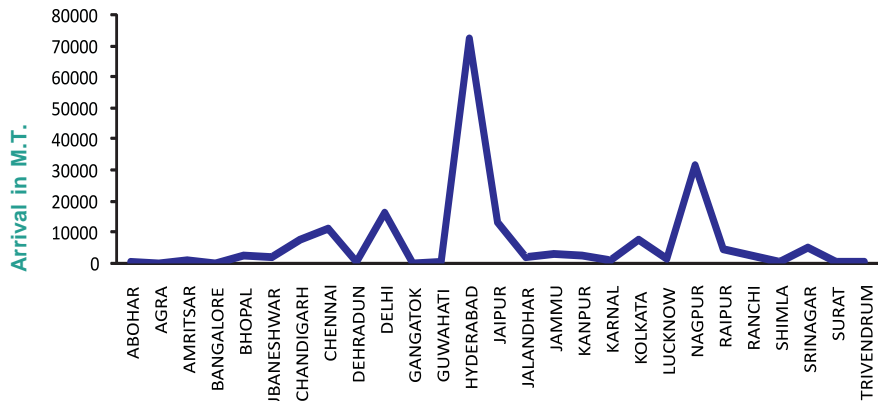
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual															
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival														
AOCHAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1901.2	361												
AGRA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
AMRITSAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2221	184										
BANGALORE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2776	1103										
BHOPAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
BHUBANESHWAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2041.6	2793								
CHANDIGARH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2615	2101								
CHENNAI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2217	7827							
DEHRADUN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2884.67	11145						
DELHI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2501	448						
GANGATOK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2821.5	16342					
GUWAHATI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3651	66					
HYDERABAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4821	445				
JAIPUR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7878	72136				
JALANDHAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1885.5	13013				
JAMMU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2744.6	1869			
KANPUR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3335	3019			
KARNAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2866.67	2223			
KOLKATA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1912.5	1041			
LUCKNOW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2279	7382			
NAGPUR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2588.67	1420			
RAIPUR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2714.2	31587		
RANCHI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3382.75	4770		
SHIMLA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1705.67	2388		
SRINAGAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2722.33	288	
SURAT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3053.5	5225	
TRIVENDRUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2818.33	739	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3873	419



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



Annual Total Arrival Trend of Mango (Safeda) - 2011



PAPAYA

- Origin** – South Mexico and Costa Rica.
- Major Producing States** – Karnataka, Gujarat, Orissa, West Bengal, Assam, Kerala Madhya Pradesh & Maharashtra
- Latest Production** – 41.96 Lakh Tonnes
- Main Varieties** – 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.
- Advanced Technology** – High density planting
- Pre-cooling** – Forced air
- Storage Conditions**
- | | |
|-------------------|--------------|
| Temperature | : 10° - 13°C |
| Relative Humidity | : 85-90% |
| Storage | : 1-3 weeks |
| Freezing point | : -2 to -1°C |
- Sensibility to** – 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/UTS	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		■	■	■	■	■	■					

■ PEAK SEASON
 ■ LEAN SEASON
 ■ ROUND THE YEAR

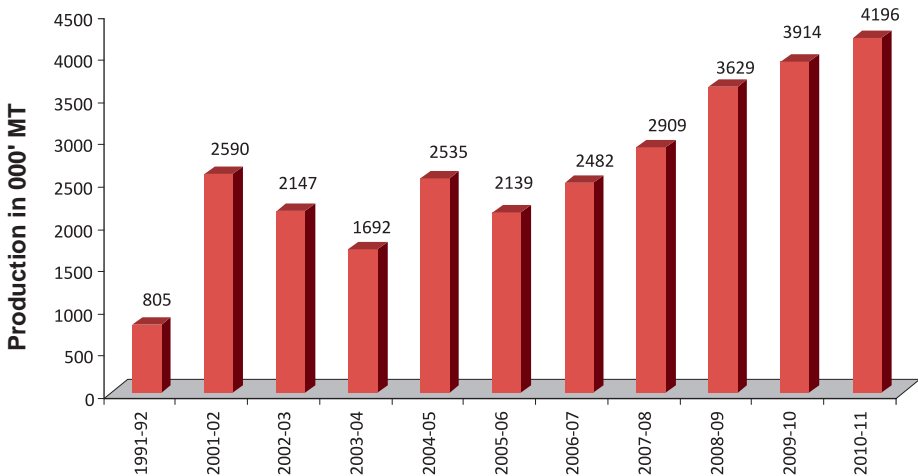
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



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

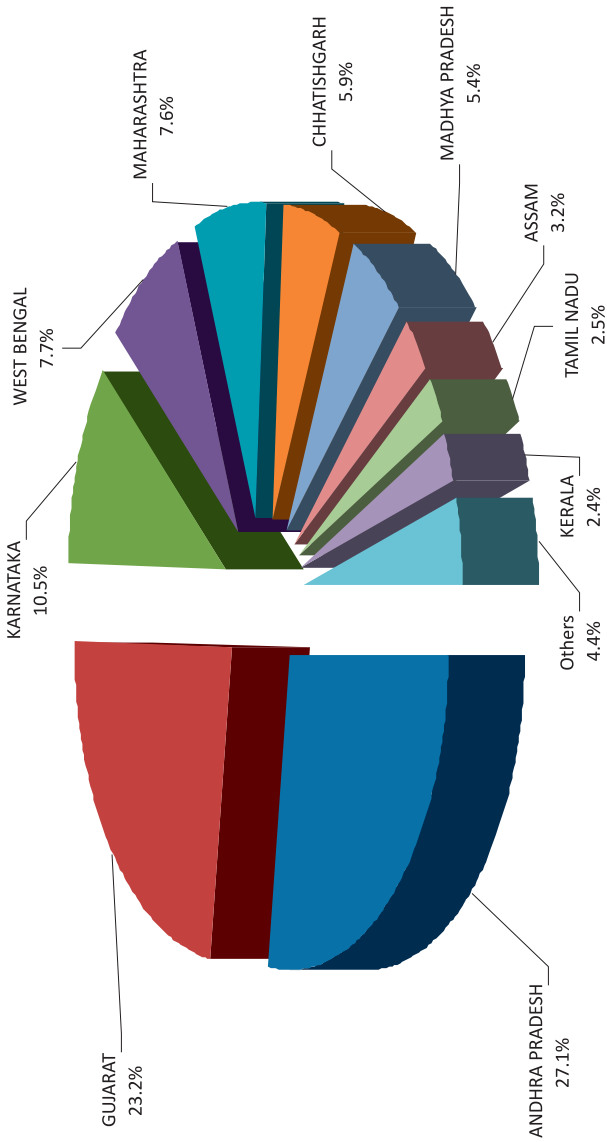


STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF PAPAYA



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
TOTAL	97.7	3628.9	37.1	95.7	3913.5	40.9	105.6	4195.5	39.7

Leading Papaya Producing States (2010-11)



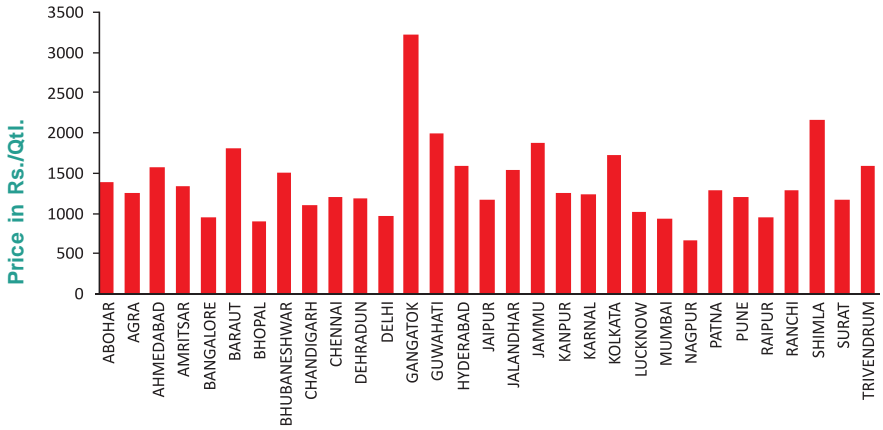
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF PAPAYA DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

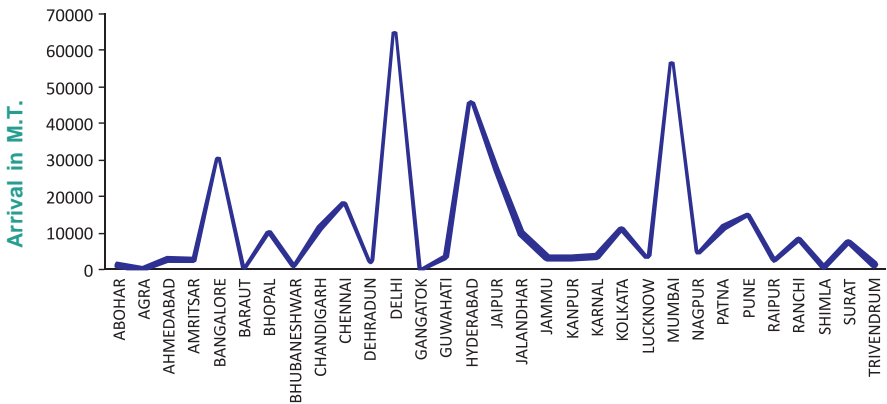
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual				
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival			
ABOHR	1225	89	1077	82	1140	137	1357	120	1420	86	1735	88	1488	94	1370	92	1388	94	1600	74	1587	65	1275	96	1385.17	1077			
AGRA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1250	10	
AHMEDABAD	1559	1146	1550	357	1510	504	1586	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1568.67	2831	
AMRITSAR	93	155	1179	230	1152	370	1264	365	1386	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1163	360	
BANGALORE	689	2130	1283	2280	1112	2660	1060	2225	1385	2500	1232	2942	612	3075	388	2720	760	2415	753	1915	725	2255	911	2730	952	29747	56		
BARAOT	1582	139	1463	135	1488	154	1791	110	1802	113	1989	54	1888	27	2012	44	2046	52	1908	39	2088	39	1676	56	1806.58	960	-	-	
BHOPAL	788	691	774	721	740	663	957	575	1000	809	1044	708	987	861	804	1002	1225	785	1040	736	713	1420	725	871	888.08	9882	-	-	
BHUBANESHWAR	1288	87	1696	82	1648	85	1527	82	1569	76	1383	101	1542	107	1481	106	1508	136	1463	87	1429	101	1454	126	1499	1156	-	-	
CHANDIGARH	821	688	921	867	980	886	1103	834	1312	1405	1084	1439	884	1423	1119	783	1173	767	1317	780	1235	807	1183	822	1101	11511	-	-	
CHENNAI	1355	927	1387	1012	1180	1095	1180	906	1168	1156	1202	956	1401	1008	3492	1120	2452	1371	1521	1300	1175	1281	1557	1205.17	17886	-	-		
DEHRADUN	1094	136	1154	120	1065	229	1157	229	1165	215	1148	229	1115	275	1110	258	1450	179	1177	183	1342	118	1290	209	1188.08	2380	-	-	
DELHI	853	4055	880	5574	922	7483	1010	6359	945	5247	966	4471	928	5106	1083	6333	1026	5289	1010	3660	1064	3901	824	6731	958	64209	-	-	
GANGATOK	3128	13	2881	10	2897	20	3312	16	3330	13	3283	11	3296	11	3348	11	3313	11	3363	10	3344	10	3267	11	3230.17	146	-	-	
GUWAHATI	1540	286	1626	242	1817	278	1676	211	1988	278	1899	489	2288	283	2496	217	2264	339	1958	231	2583	206	1946	273	2003.42	3293	-	-	
HYDERABAD	1282	2863	1519	1977	2162	6473	2069	4974	2176	4110	2965	4973	3036	5880	1296	2926	489	2209	618	2011	621	1829	823	4340	1587.42	45175	-	-	
JAIPUR	986	1355	995	1434	1073	2632	1231	2636	1173	3622	1237	2544	1189	2336	1372	3227	1148	2342	1288	1754	1335	1305	944	2090	1158.42	27277	-	-	
JALANDHAR	1571	889	1314	881	1088	883	1143	4508	1524	1732	1871	649	1936	451	1808	258	1496	319	1690	286	1383	79	-	-	1531.27	9765	-	-	
JAMMU	1404	221	1591	227	1581	444	1686	354	2284	239	2024	155	1837	224	2094	180	1871	240	2361	131	2357	202	1551	361	1885.08	3048	-	-	
KANPUR	979	301	1193	281	1173	283	1118	530	1205	286	1111	385	1246	338	1453	388	1452	415	1505	171	-	-	-	-	-	1243.5	3318	-	-
KARNAL	924	377	1165	278	1384	379	1532	249	1173	338	1022	314	870	299	1387	183	1673	237	1365	253	1146	233	1308	287	1233.25	3482	-	-	
KOLKATA	1538	855	1959	486	1626	549	1632	2253	1642	399	1654	783	1696	837	1836	675	1831	1295	1827	583	1859	817	1806	683	1716.33	10825	-	-	
LUCKNOW	779	310	939	254	949	322	1100	338	947	326	1093	398	1031	167	1099	220	1462	224	1046	301	859	263	862	512	1013	3635	-	-	
MUMBAI	886	4232	916	4025	940	8265	880	3736	885	2655	711	3831	888	3631	1771	6690	712	4760	880	4143	844	4730	788	5023	963	95921	-	-	
NAGPUR	628	216	747	860	641	335	621	232	712	265	598	300	588	306	722	480	775	535	755	250	630	343	508	551	666	4700	-	-	
PATNA	1022	630	1148	570	1103	1255	1310	765	1313	1125	1426	1185	1443	930	1368	780	1357	1125	1416	945	1276	1095	1246	840	1284.83	11245	-	-	
PUNE	723	1239	681	1150	1054	902	1588	567	1529	686	1532	1333	790	1410	704	1293	788	1144	673	1139	875	1043	1217	1203.75	14501	-	-		
RAIPUR	826	298	767	298	797	234	908	212	878	208	822	229	816	219	970	186	1293	689	1176	194	1167	197	1014	301	653	2645	-	-	
RANCHI	1222	522	1241	448	1270	574	1280	426	1218	488	1241	555	1175	576	1332	2193	1368	520	1315	513	1349	484	1317	576	1283.67	7815	-	-	
SHIMLA	1714	85	1722	78	1748	34	1994	51	2276	63	2317	117	2274	83	2331	63	2288	86	2430	82	2388	68	2558	97	2170	907	-	-	
SURAT	1073	297	1182	1787	1283	277	1116	476	1154	682	1040	527	1004	535	1623	342	1137	643	1231	434	1194	563	1062	569	1173.25	7142	-	-	
TRIVENDRUM	1508	77	1489	73	1627	75	1680	76	1716	78	1588	189	1342	128	1503	127	1796	124	1433	52	1438	177	1965	75	1586.75	1251	-	-	



Annual Wholesale Average Price Trend of Papaya - 2011



Annual Total Arrival Trend of Papaya - 2011



PINEAPPLE

- Origin** – American continent, probably Brazil and Paraguay
- Major Producing States** – West Bengal, Assam, Karnataka, Meghalaya, Manipur, Bihar & Kerala
- Latest Production** – 14.15 Lakh Tonnes
- Main Varieties** – Giant Kew, Queen, Kew, Mauritius, Charlotte Rothchild Jaldhup Desi and Lakhat, etc.
- Advanced Technology** – High density planting
- Pre-cooling** – Forced air
- Storage Conditions**
- | | |
|-------------------|--|
| Temperature | : 7-10 ^o C |
| Relative Humidity | : 85-95% |
| Storage period | : 2-4 weeks (depending on cultivar & ripening stage) |
| Freezing point | : -1 ^o C |
- Treatment for Quality** – 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.
- Sensibility to** – Refrigeration, Ethylene and Odours.
- Growing Belts**



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, Churhandpur, 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												
PONDICHERY												

■ PEAK SEASON
■ LEAN SEASON
■ ROUND THE YEAR

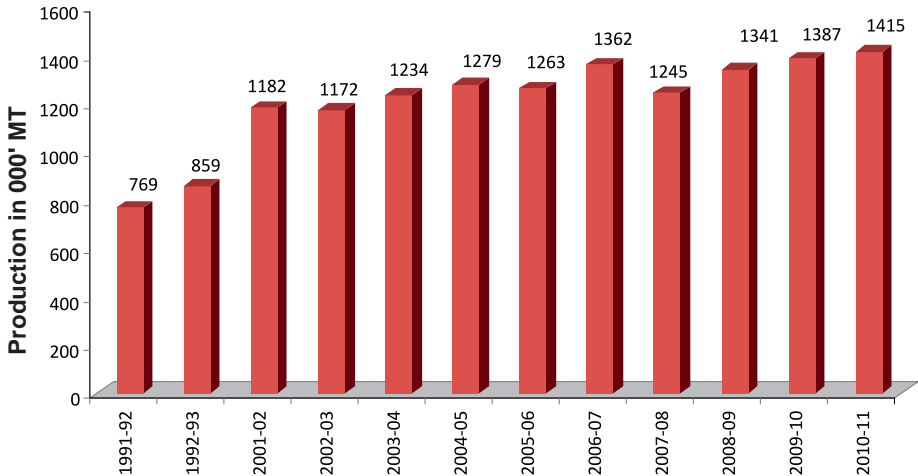
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF 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

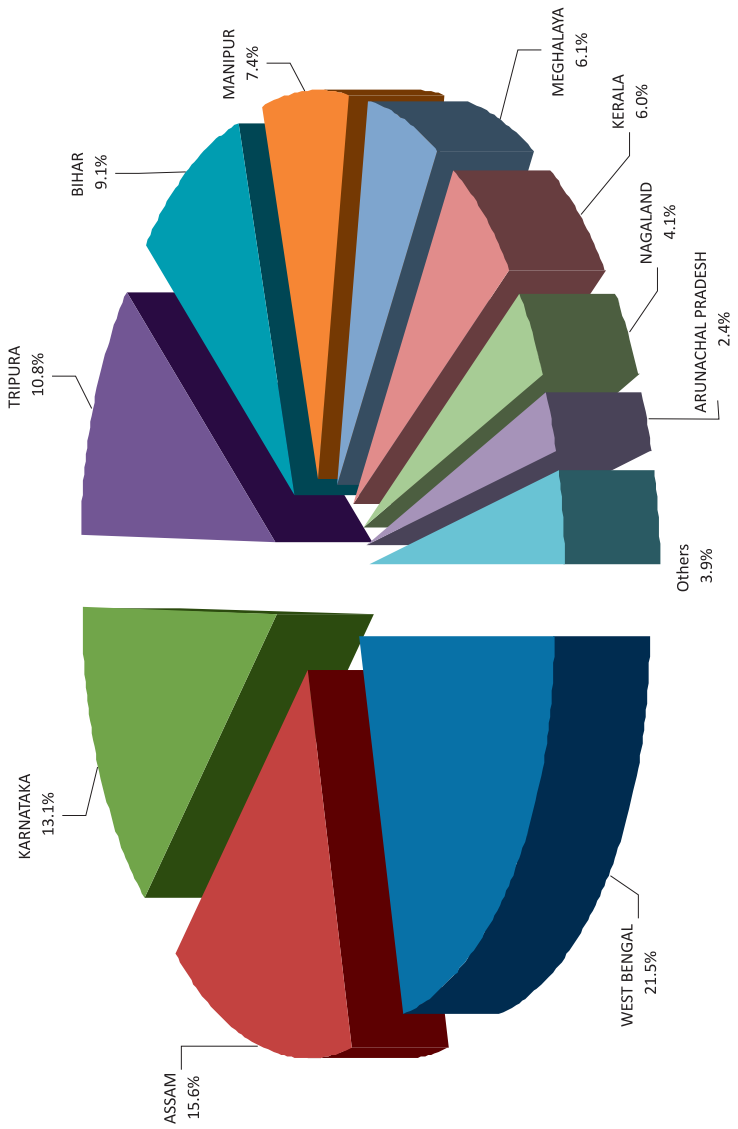


AREA IN 000' HA PRODUCTION IN 000' MT PRODUCTIVITY HA/MT

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
TOTAL	83.7	1340.8	16.0	91.9	1386.8	15.1	88.7	1415.4	15.9



Leading Pineapple Producing States (2010-11)



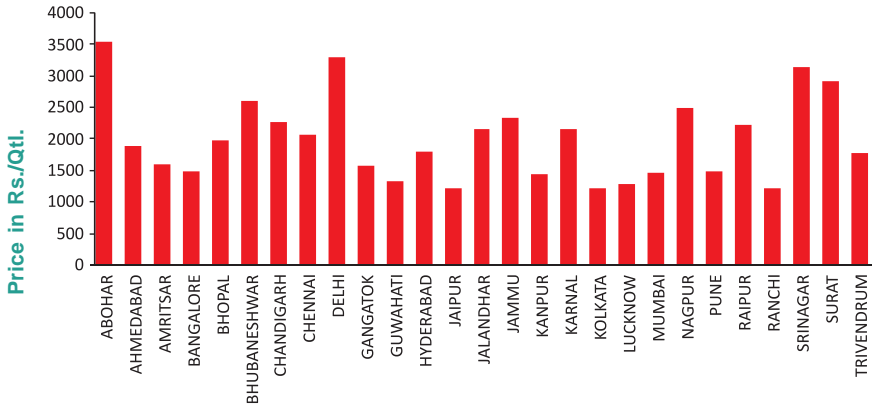
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF PINEAPPLE DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

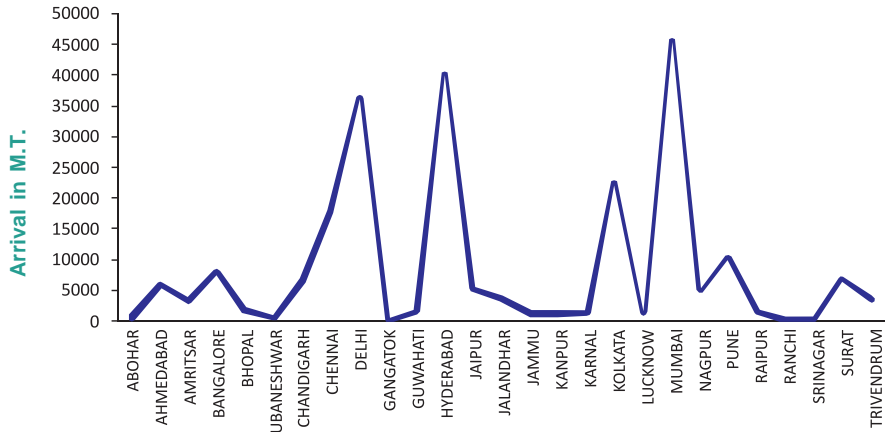
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual			
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival		
ABOCHAR	2704	33	2462	21	2776	34	3204	39	2956	40	3665	29	3624	43	3643	40	4225	31	4678	25	4329	39	4104	56	3550	430		
AHMEDABAD	1522	1241	1518	470	1466	420	1558	237	1596	320	1764	436	2940	481	2338	419	2567	337	2265	472	2298	397	2298	397	1866.92	5697		
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	1480	152	1911	251	1662	132	2109	88	2008	89	1838	91	2063	121	1908	169	2450	161	2119	233	1965	201	2127	161	1987.5	1829		
BHUBANESHWAR	2632	39	2614	34	2667	49	2723	41	2583	52	2329	50	2555	66	2538	75	2613	53	2742	40	2735	38	2613	44	2689.5	621		
CHANDIGARH	2208	387	2042	372	2148	452	2417	335	2291	425	2265	738	2531	1053	2323	636	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	17669		
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	36024		
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1390.5	1520
HYDRABAD	1538	2596	1819	2032	2113	6193	2914	2887	2152	1824	2923	5196	3232	5812	1307	2125	790	537	622	512	638	1550	1478	8468	1791.17	38660		
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	2265	338	2103	367	2463	320	3063	280	2447	322	2113	251	1758	398	1559	327	1275	93	-	-	2166.64	3548		
JAMMU	2128	44	2459	66	2700	80	2986	64	2772	143	2114	132	2069	120	2088	118	2035	125	2091	99	2800	111	2108	89	2346.87	1191		
KANPUR	1083	89	1171	143	1345	79	1885	106	1978	134	1788	234	1378	137	1636	45	1063	91	1106	59	-	-	-	-	1446.3	1217		
KARNAL	2640	129	2543	137	2542	102	2725	26	2626	61	1978	137	1605	136	1639	118	1872	136	2022	119	1935	125	1619	135	2162.17	1960		
KOLKATA	1289	948	1210	727	1372	654	1441	1828	1421	729	1347	724	1086	4125	980	1900	1194	5718	1135	1771	1083	1752	1100	1170	1219.83	22146		
LUCKNOW	1080	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	49280		
NAGPUR	2530	200	2528	490	2308	500	3066	300	2966	470	2458	580	2429	395	2842	310	2433	355	2346	538	2435	383	1673	482	2502.83	5083		
PUNE	1455	716	1397	566	1672	757	1694	604	1623	636	1607	585	1498	946	1550	2224	1338	70	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	2092	137	2225	1460		
RANCHI	1180	22	1285	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1222.5	68	
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	2632	315	3200	214	2969	314	2618	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	288	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

Origin	– Iran and adjoining countries
Major Producing States	– Maharashtra, Karnataka, Tamil Nadu, Rajasthan, Himachal Pradesh.
Botanical Name	– Punica Granatum
Latest Production	– 7.43 Lakh Tonnes
Advanced Technology	–
Pre-cooling	–
Storage Conditions	
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												
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

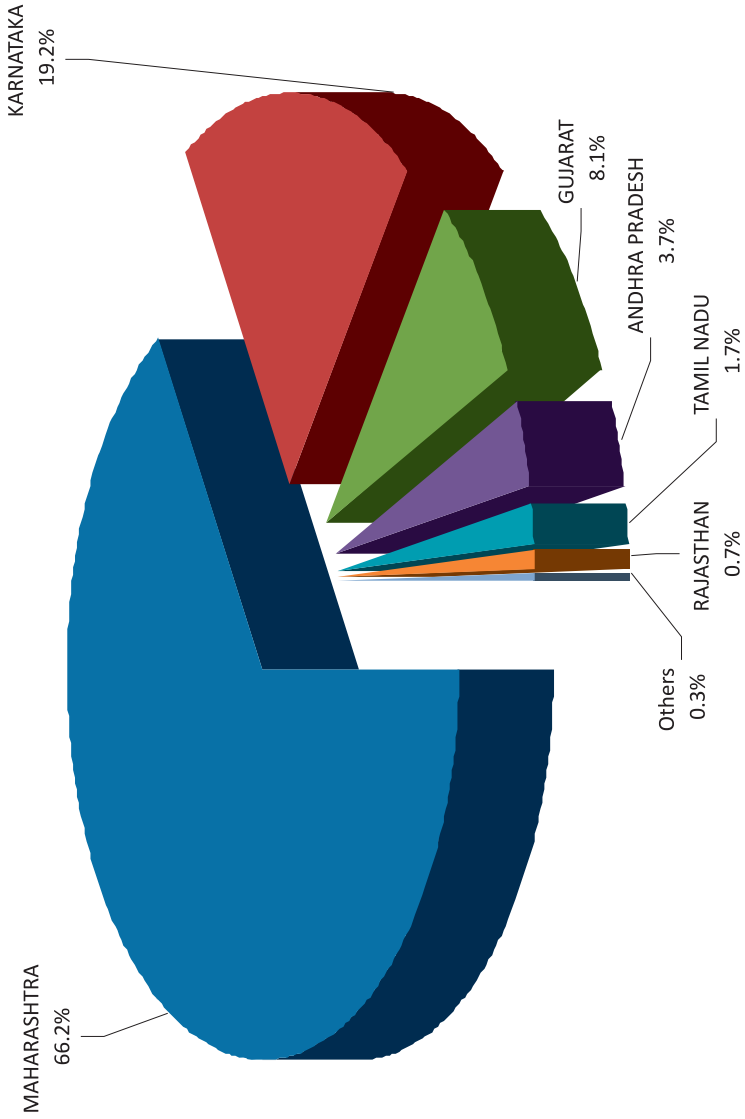
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF POMEGRANATE



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
TOTAL	109.2	807.2	7.4	125.0	820.3	6.6	107.3	743.1	6.9



Leading Pomegranate Producing States (2010-11)



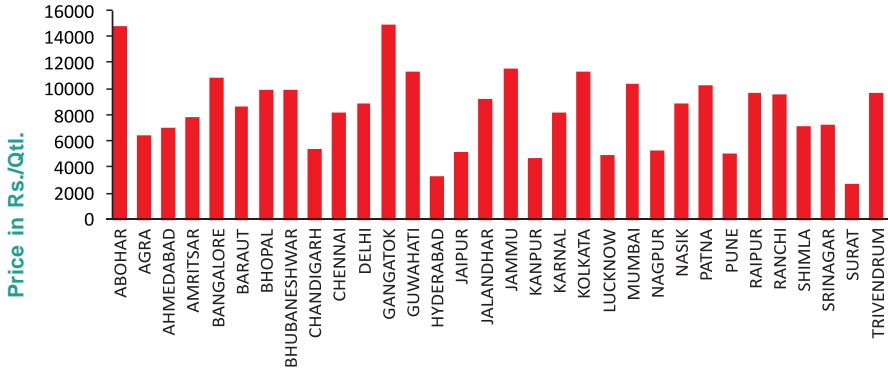
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF POMEGRANATE DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

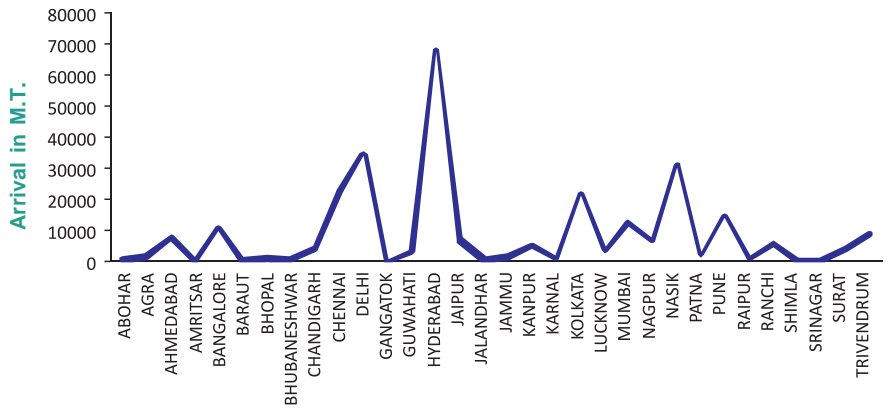
MARKET/CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Annual															
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival															
ABOHR	983	24	1076	13	1076	25	17146	23	20836	24	21761	26	17820	36	10662	56	12000	54	14435	50	16357	37	15167	60	14822.08	430		
AGRA	4632	89	6118	62	8632	52	9629	84	7466	94	5117	113	4267	116	4926	109	5736	120	6609	164	6634	377	6666	145	6439.33	1925		
AHMEDABAD	6342	1659	8300	334	7988	397	8500	376	8576	325	6620	420	5985	381	6425	816	6149	621	6467	706	5935	682	6523	563	7029.25	7480		
AMRITSAR	8480	41	11942	51	11029	48	9495	61	7671	30	-	-	-	-	4109	82	4948	79	5079	46	7525	46	8472	75	7786	590		
BANGALORE	16521	773	17563	666	17404	329	15645	559	8269	1100	8125	970	8034	1448	7462	1326	7354	1064	8364	709	7000	886	9037	736	10888.17	10566		
BARAUT	8634	28	9807	23	11973	35	14327	22	11317	27	8461	31	5388	58	4623	59	5658	36	6358	35	6358	25	8439	25	8638.92	406		
BHOPAL	5940	119	15422	41	20400	23	17400	25	1900	6	7542	101	6404	155	6271	151	6056	140	7965	169	5699	190	10020.67	1149	8928.08	482		
BHUBANESHWAR	12548	38	11328	33	13115	38	14791	10	-	-	6629	43	7363	46	7760	45	9444	46	9444	21	9421	36	9084	40	9928.08	482		
CHANDIGARH	3913	333	5719	271	6273	130	5917	10	-	-	5057	470	5759	533	5995	548	5309	603	5688	465	5423	324	5464.43	3687				
CHENNAI	9975	1170	11283	850	10740	984	11659	700	5966	1304	5824	1462	6736	1536	6704	4468	6500	3703	7392	1033	9000	2396	8250	2317	8267.33	22793		
DELHI	12590	577	11978	956	11186	655	10204	942	6275	1963	4820	3955	6252	6268	8159	6210	7657	5530	8464	3063	10031	2118	9761	2773	8946.08	34621		
GANGATOK	11020	16	21000	13	19419	23	23608	19	22690	18	19596	20	11270	19	9374	23	9430	19	9743	20	10542	22	11686	19	14941.5	229		
GUWAHATI	10383	224	8852	227	14555	231	21668	143	17340	238	8746	484	8223	283	7773	243	8900	316	9676	288	8839	240	10942	240	11498.92	3137		
HYDERABAD	3112	2561	4790	1834	4058	5069	3241	2700	3584	3763	4432	4690	4598	6411	6671	3887	1384	3016	1150	13408	1211	7306	2550	12025	3388.25	67500		
JAIPUR	6321	211	6381	204	6115	193	6307	151	5695	272	3681	468	3501	731	4218	1429	4469	1413	5029	637	5516	463	5410	411	5209.42	6383		
JALANDHAR	9517	108	10050	68	12622	55	13215	37	10700	65	-	4894	50	5975	106	6843	77	6700	19	-	-	-	-	-	9297.6	655		
JAMMU	12660	41	18500	50	17731	44	17182	44	9600	88	8172	144	7638	182	7675	191	8112	188	10273	131	10542	143	10365	203	11587.5	1450		
KANPUR	5989	242	8285	108	4703	371	4745	401	4465	469	3327	1022	3581	638	3516	481	4638	930	4918	236	-	-	-	-	4797.7	4998		
KARNAL	7060	28	10761	23	20711	38	18227	30	7645	75	3681	91	3601	123	4149	108	4729	123	5932	123	5932	123	5937	125	6046	130	8214.92	1019
KOLKATA	16328	1320	17222	864	17212	768	17033	2128	11169	1686	6759	2016	6190	1840	7620	2156	7513	3296	9593	1408	9775	2244	10019	1684	11383.5	21400		
LUCKNOW	5701	284	7031	133	5997	116	5910	134	5076	289	3299	818	3613	346	3823	423	4520	461	4785	368	4641	249	5069	389	4955.42	3990		
MUMBAI	13296	728	16882	350	14739	817	17571	482	13355	477	5108	1122	4795	1799	5179	1850	7289	1168	9108	485	9846	792	7880	1946	10404.83	12024		
NAGPUR	6182	270	6543	200	7659	220	5189	280	3082	360	3182	620	3989	1037	4760	620	5192	1255	6400	905	6996	713	5813	472	5375.58	6912		
NASIK	9516	990	13231	502	13982	634	14047	242	11937	705	4661	2155	5211	4540	6748	9010	6348	5070	6701	3410	7528	1910	7675	1610	8965.42	30778		
PATNA	12125	80	13816	59	16550	180	16510	129	10129	305	9000	315	7233	220	6760	145	6664	305	7750	275	9000	280	9000	125	10373.92	2464		
PUNE	5405	936	4778	1040	5052	816	5835	598	5633	598	4632	375	4186	1028	4715	730	4793	5260	5428	743	5317	815	4810	1221	5047.75	14513		
RAIPUR	12380	47	14597	53	15046	62	14477	55	9372	117	4859	82	5398	91	6629	82	7078	107	8061	53	9500	84	9019	129	9766.25	582		
RANCHI	9561	114	9872	118	10144	193	15110	82	13769	52	-	6151	550	7346	431	7075	2967	7429	433	9712	249	9089	386	9568.91	5955			
SHIMLA	6667	3	-	-	-	-	-	-	-	-	-	-	-	-	7458	25	6373	30	7350	24	7694	32	7750	25	7196.67	141		
SRINAGAR	2700	2	-	-	2700	1	-	-	-	-	-	-	-	-	3000	1	9313	20	11800	22	10986	22	10764	26	7311.86	98		
SURAT	3198	168	3209	138	3165	167	3645	161	3784	101	3481	268	2361	466	2204	278	1606	553	2021	674	2171	669	2894	316	2814.92	3659		
TRIVENDRUM	12795	20	11795	22	12000	2	-	-	7800	3	8655	94	6633	6523	7641	32	8778	27	9093	5	10060	15	11943	5	9688.45	8687		



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
Andhra Pradesh	Pala, Kirtibarathi, Cricket Ball, Dwarapudi and Guthi Jonavalasa
Gujarat	Kalipatti, Bhuripatti, Piilipatti, Dhola Diwani, Jhumakhia and Cricket Ball
Maharashtra	Kalipatti, Cricket Ball, and Murraba
Karnataka	Kalipatti, Cricket Ball, Kirtibarathi, DHS 1 and DHS 2
Tamil Nadu	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 GA₃ 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		█	█	█	█	█	█					

█ PEAK SEASON
█ LEAN SEASON
█ ROUND THE YEAR

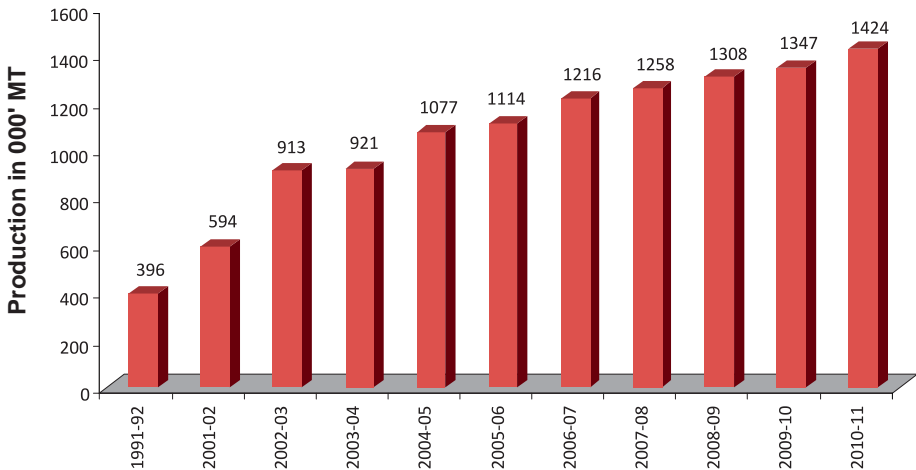
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



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

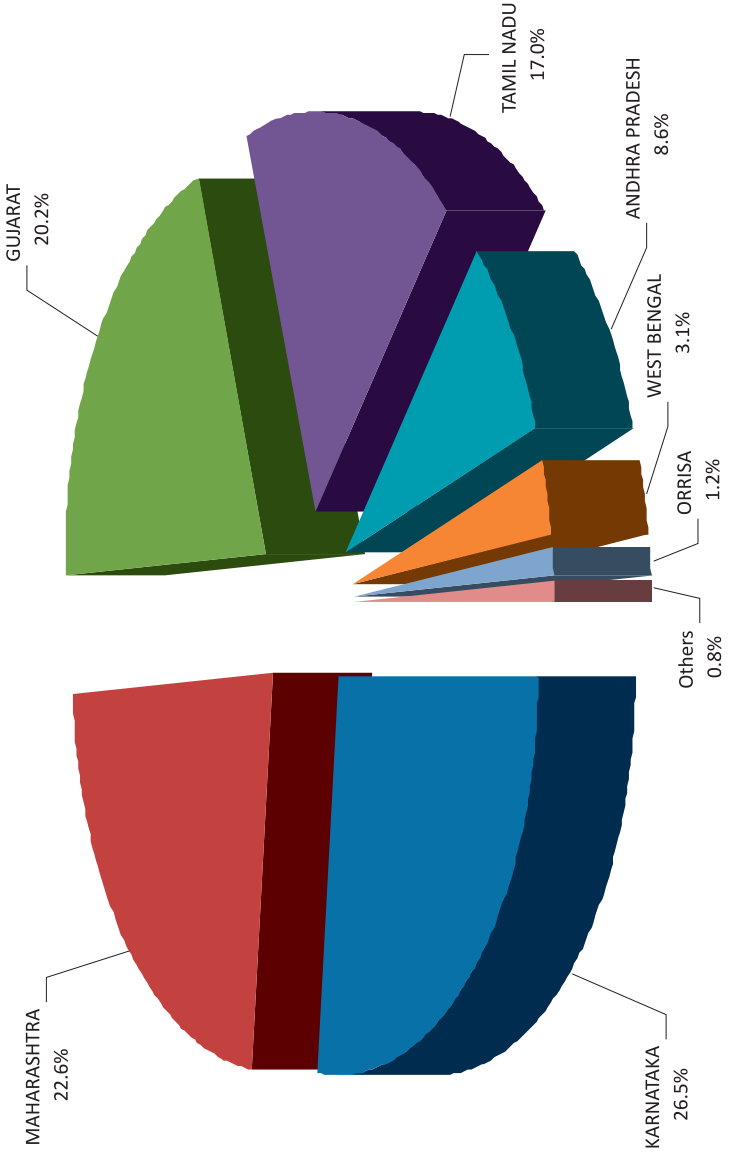


STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF SAPOTA

State	AREA IN 000' HA		PRODUCTION IN 000' MT		PRODUCTIVITY HA/MT				
	2008-09		2009-10		2010-11				
	Area	Production	Pdy.	Area	Production	Pdy.			
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
ORRISA	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
TOTAL	156.1	1307.8	8.4	158.9	1346.6	8.5	160.0	1424.1	8.9



Leading Sapota Producing States (2010-11)



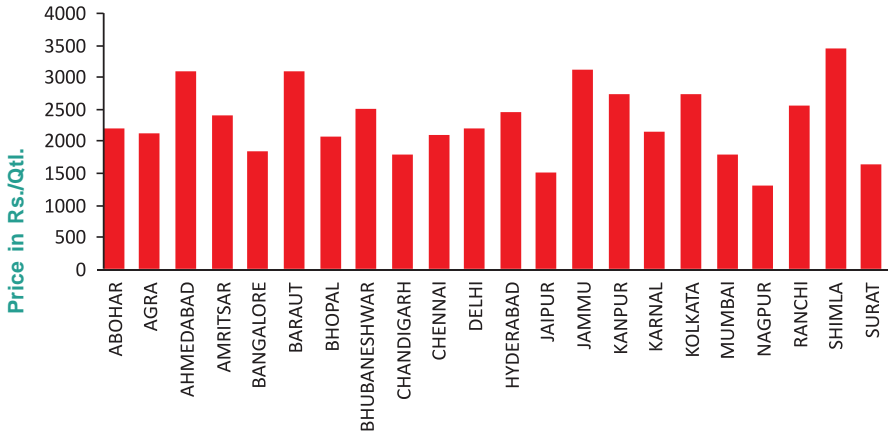
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF SAPOTA DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

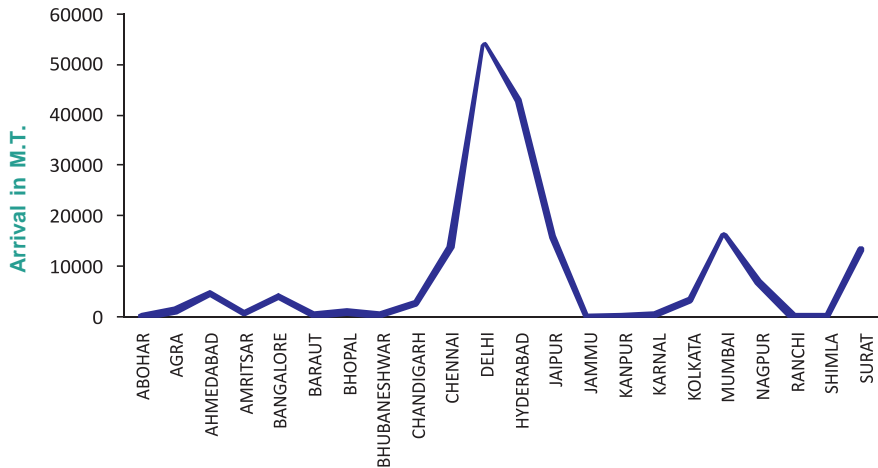
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual					
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival				
ABOHAR	-	-	-	-	2216	43	2243	33	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	2280	37	2444	21	2275	12	1927	279	2719	2117.92	1284			
AHMEDABAD	2945	849	2439	344	2673	482	2595	388	2542	402	2920	311	2365	292	3304	222	3650	306	3776	284	3746	312	3552	422	3092.25	4694				
AMRITSAR	2650	251	2671	133	2219	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2004	287	2386	779		
BANGALORE	1488	272	1896	274	2354	282	2198	284	1677	434	1659	411	2079	357	1427	328	1581	250	1800	270	1833	282	1781	336	1836.08	3800				
BARAULT	4625	24	3559	33	3042	48	2509	51	1835	77	2376	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	2330	32	2367	32	2523	43	2541	23	-	-	-	-	-	-	-	-	-	-	2371	25	2207	41	2494.96	305
CHANDIGARH	1532	465	1680	392	1781	406	1688	389	1942	333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1888	239	1967	413	1780.86	2637
CHENNAI	2188	551	2200	532	2062	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	8684	1701	8050	1382	7205	1634	2442	1937	561	2171	745	3177	505	5084	143	2053	5008	1610	9810	2190.25	53671				
HYDERABAD	1720	2724	2881	1876	2142	6286	2469	2769	2384	6707	2581	9208	3076	7778	2343	1409	2056	84	2667	30	2371	784	2845	2367	2444.58	42612				
JAI PUR	1673	1272	1603	1679	1460	2315	1550	2149	1136	2838	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2066	82	2215	236	2135.5	338
KOLKATA	2404	551	2817	506	2559	249	2283	803	2430	408	2525	504	3604	60	-	-	-	-	-	-	-	-	-	-	3111	160	2714.13	3241		
MUMBAI	1754	1242	1650	1033	1570	2666	1711	1602	2488	1448	1713	1184	2050	516	1738	1493	1654	833	1833	658	1600	1209	1504	2040	1772.08	16084				
NAGPUR	1236	860	1173	1030	1213	980	1109	550	1033	480	952	450	1288	200	1231	260	1640	422	1673	122	2052	575	1031	1070	1300.92	7059				
RANCHI	2821	75	2525	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2569	121	2545	214	
SHIMLA	3269	25	3127	23	3170	26	3242	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4114	7	3700	26	3437	129
SURAT	1780	965	1323	1335	1227	1505	1186	1335	1122	1811	1146	1030	1964	543	1708	702	2327	663	2604	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
Early	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).
Medium	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
Late	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												
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

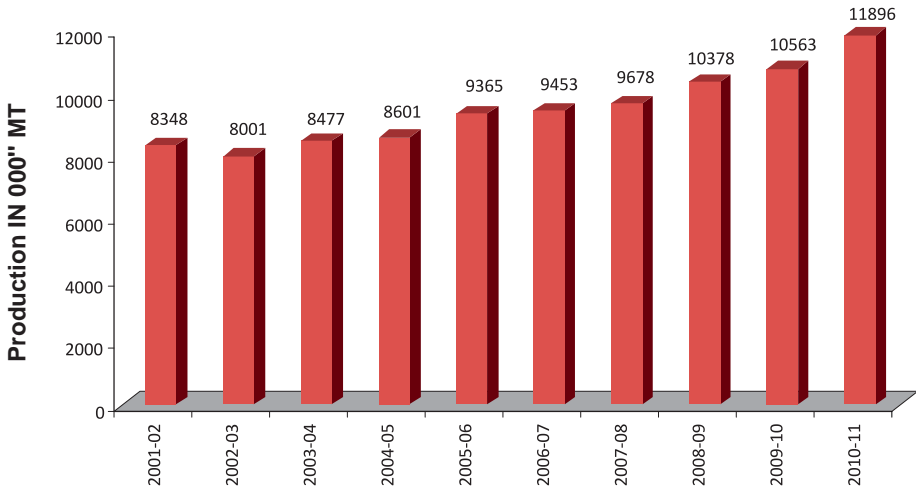
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF 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



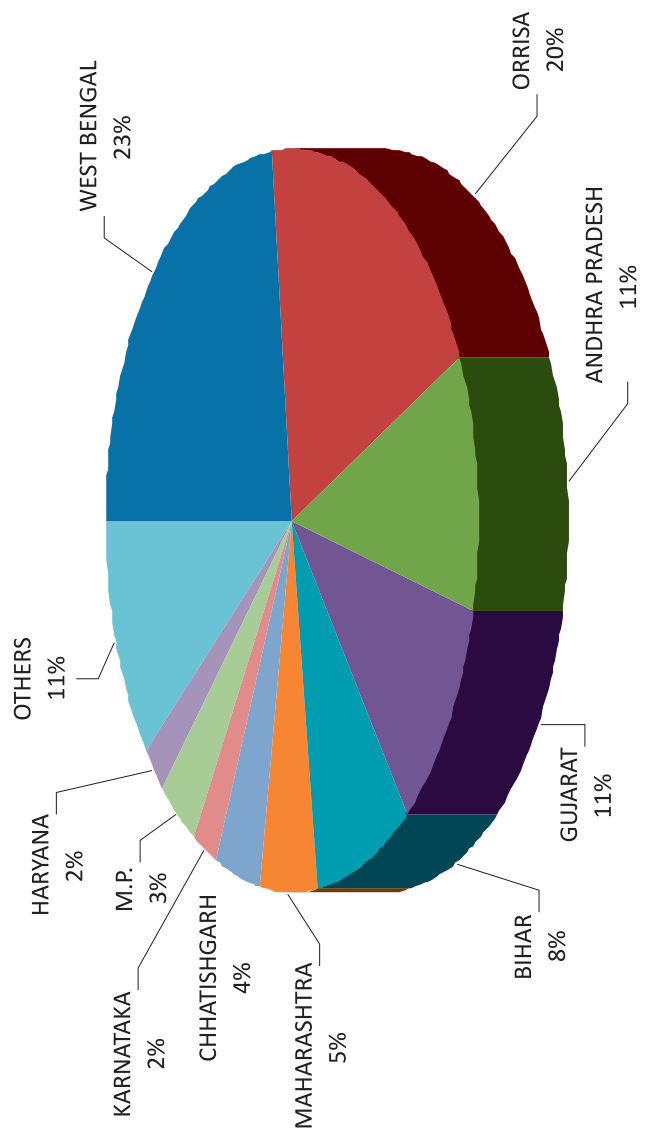
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF BRINJAL



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
TOTAL	600.3	10377.6	17.3	612.4	10563.0	17.2	680.0	11895.8	17.5



Leading Brinjal Producing States (2010-11)



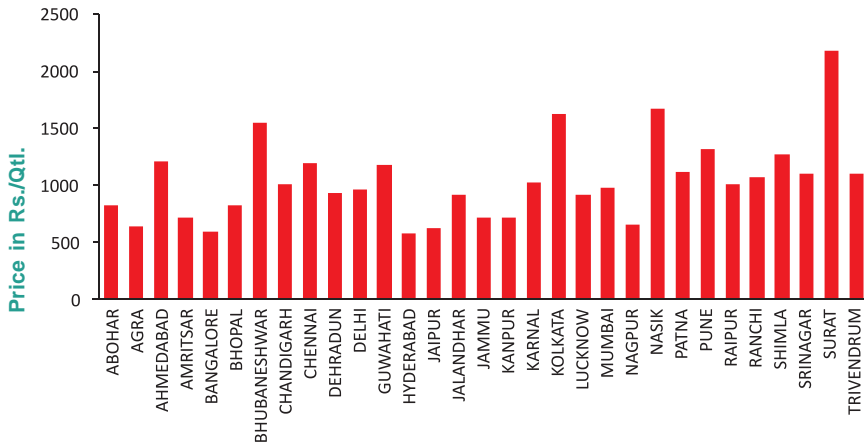
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF BRINJAL (ROUND) DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

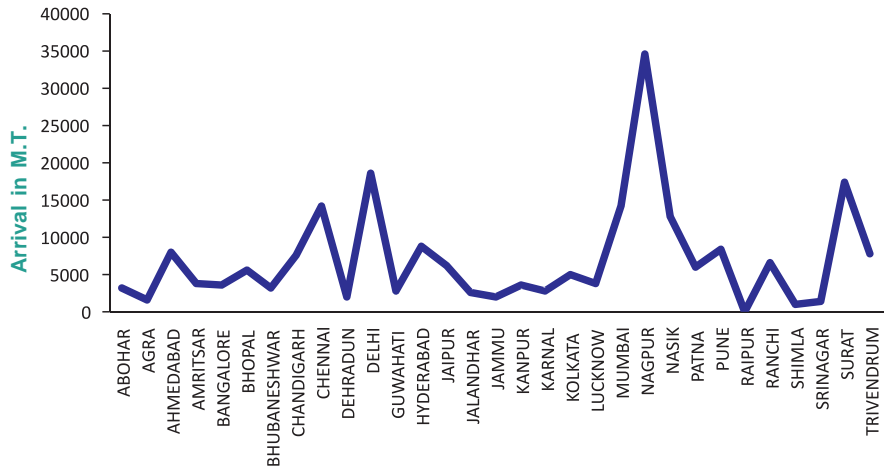
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual				
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival			
ABOHAR	1008	44	808	51	1008	101	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	356	681	343	572	420	566	234	600	256	617	283	588	3654			
BHOPAL	1496	161	709	453	650	665	411	568	604	312	922	177	1158	175	928	186	1325	321	703	494	462	1221	367	777	810	5500			
BHUBANESHWAR	1830	221	987	380	1377	295	1200	360	975	430	1462	183	2000	98	1710	143	1814	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	562	1005	604	870	910	904	778	991	7680			
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	778	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	
JAIPIUR	609	487	624	444	545	477	478	480	487	535	593	456	724	394	929	427	769	1021	637	416	458	489	466	486	609	6111			
JALANDHAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	226	460	266	667	108	606	1162	796	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	894	756	545	1358	362	1921	311	2659	314	2821	272	2508	229	1342	586	791	506	1609	4966			
LUCKNOW	1082	271	937	303	800	329	808	275	1256	233	752	359	942	325	879	327	1117	306	941	314	573	354	617	452	900	3848			
MUMBAI	1344	1042	602	768	626	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	2470	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	495	593	453	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	-	883	-	863	-	1038	-	1487	-	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	99	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	893	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 ₂ +5%Co ₂) |
|-------------------|-------------|---|
| Temperature | : 0°C | 0°C |
| Relative humidity | : 98-100% | 95-98% |
| Storage period | : 3-6 weeks | --- |
| Freezing point | : -1°C | --- |
- Treatment for Quality** – GA₃ (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	Green	Yellow									Green	Yellow
ARUNACHAL PRADESH												
ASSAM	Green	Green	Yellow								Green	Green
BIHAR	Green	Green	Yellow	Yellow								
CHHATISHGARH	Green	Green	Yellow				Yellow	Green	Green	Green	Green	Green
DELHI												
GOA												
GUJARAT	Green	Green	Yellow							Yellow	Yellow	Green
HARYANA	Green		Yellow							Yellow		
HIMACHAL PRADESH	Yellow	Green	Yellow					Yellow	Green	Green	Green	Green
JAMMU & KASHMIR	Green	Green	Green	Green	Yellow	Yellow				Green	Green	Green
JHARKHAND	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Green
KARNATAKA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
KERALA												
MADHYA PRADESH	Green	Green		Yellow	Yellow							
MAHARASHTRA	Green	Green	Yellow									Yellow
MANIPUR							Green	Green		Yellow	Yellow	
MEGHALAYA							Yellow	Green				
MIZORAM											Yellow	Green
NAGALAND	Yellow	Green										
ORRISA	Green	Green	Green	Yellow							Yellow	Green
PUNJAB	Green	Green	Yellow									
RAJASTHAN			Yellow									Green
SIKKIM	Yellow	Yellow	Yellow			Green	Green	Green	Green	Green	Yellow	Yellow
TAMIL NADU				Yellow	Green						Yellow	Green
TRIPURA												
UTTAR PRADESH	Green											Yellow
UTTARAKHAND	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Green	Green	Green
WEST BENGAL	Green	Green	Yellow						Yellow	Yellow	Green	Green
ANDMAN & NICOBAR	Green										Green	Green
CHANDIGARH												
DADAR & NAGAR HAVELI	Green	Green	Yellow							Yellow	Yellow	Green
DAMAN & DIU	Green	Green	Yellow							Yellow	Yellow	Green
LAKSHADWEEP												
PONDICHERY												

■ PEAK SEASON
 ■ LEAN SEASON
 ■ ROUND THE YEAR

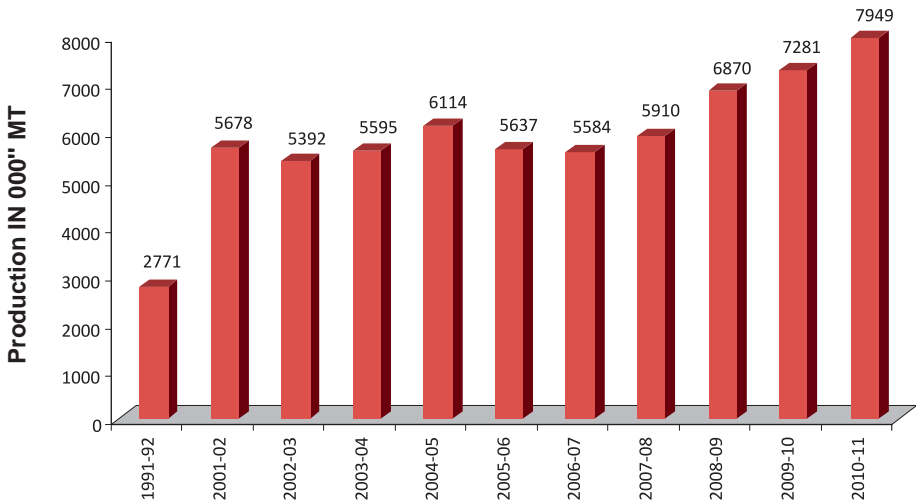
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF CABBAGE

YEAR	AREA	%OF TOTAL	PRODUCTION	%OF TOTAL	PRODUCTIVITY
	(IN 000" HA)	VEG.AREA	(IN 000"MT)	VEG.PRODUCTION	(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



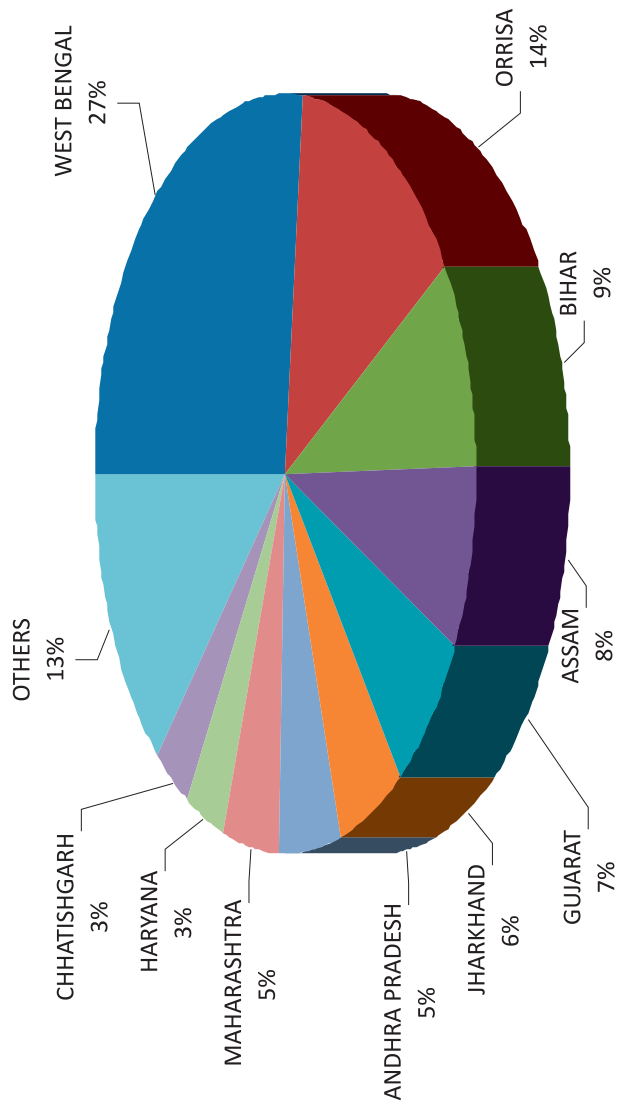
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF CABBAGE



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
TOTAL	310.2	6869.6	22.1	331.0	7281.4	22.0	368.8	7948.9	21.6



Leading Cabbage Producing States (2010-11)



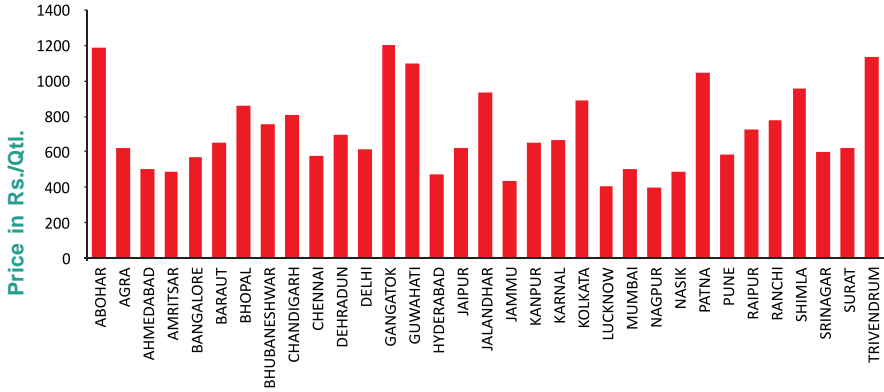
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF CABBAGE DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

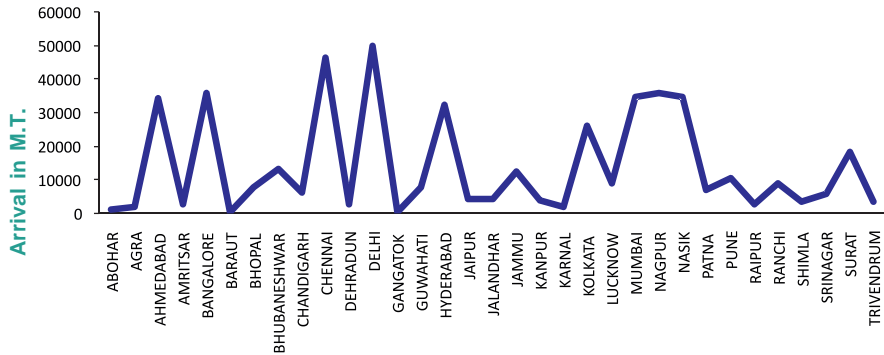
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual					
	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival	Price Arrival			
ABOHR	-	-	-	-	-	-	-	-	-	12117	24	13496	26	12960	25	12435	23	10417	29	6761	60	7714	47	8417	56	10540	290			
AGRA	4367	172	4400	126	4496	98	5438	70	5775	73	5972	72	6304	296	6719	355	6525	494	6917	547	6183	751	5404	389	5709	3433				
AHMEDABAD	6384	7040	8783	703	8700	396	9477	138	11980	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	6946	1000	8105	990	8846	940	8861	454	9948	1085	10727	580	6000	150	7962	4360	7396	8430	9222	3150	7913	24229				
BARAUT	5650	57	6689	32	7635	26	8691	22	10594	27	12228	27	13259	26	10158	46	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	6812	3581			
BHUBANESHWAR	5179	287	6190	237	6665	293	7764	223	8013	157	7771	57	8081	52	-	-	4375	45	-	-	-	4225	1260	4434	803	5267	2935			
CHANDIGARH	3906	9	4228	231	4877	335	8867	37	10316	185	-	-	2375	30	-	-	-	-	-	-	-	-	-	-	9216	568				
CHENNAI	7910	456	8239	452	11500	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4963	397				
DEHRADUN	4088	102	5598	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5324	193	4642	251	5188	45942			
DELHI	4187	27797	4549	13523	5402	6362	5362	3668	6407	1360	5156	232	-	-	-	-	5056	83726	5345	108879	5057	118518	5362	95777	5188	45942				
GANGATOK	4250	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7375	152	5698	393	5379	504	6217	1049	4250	8		
GUWAHATI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5456	45001			
HYDERABAD	5040	5424	3833	4805	4637	10346	6134	4449	5712	4293	4699	5531	5380	6481	7656	3769	6167	203	-	-	-	-	-	-	5218	1713				
JAIPIUR	5544	155	5781	78	-	-	-	-	-	-	-	-	-	-	6155	120	-	-	-	3195	405	2667	249	-	-	3767	1962			
JALANDHAR	4440	941	4824	367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4509	64034			
JAMMU	4038	366	4005	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5110	5960			
KANPUR	4105	331	4895	179	4963	146	5720	154	6650	16	-	-	-	5171	323	4631	12616	4764	32506	4817	15620	4140	2351	-	5716	38057				
KOLKATA	5565	4632	6032	1819	6293	499	6787	943	6922	54	-	-	-	5850	250	4656	2892	4432	1992	-	4860	1168	5657	7744	4886	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	3465	7356	9340	5358	7260	5760	6720	5667	26845				
NAGPUR	3136	920	3487	885	4673	335	8260	152	9602	197	8731	283	8610	3410	6533	1295	5638	1940	5506	1838	6098	940	5333	894	6300	12999				
PATNA	3638	345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4778	1890	3759	3060	3669	1560	4011	6655				
PUNE	6394	672	7422	224	1800	70	-	-	-	-	-	-	2300	55	-	-	-	-	7482	407	7050	610	6021	929	5494	2877				
RAIPUR	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	533	2951	5671					
SRINAGAR	3188	640	3350	265	-	-	-	-	-	-	-	-	2300	8	3875	37	4288	1193	4950	2740	4352	1505	3525	1415	3729	7603				
SURAT	3440	285	4023	190	4665	267	5180	414	-	-	-	-	-	-	-	-	-	-	9600	218	3250	329	3254	318	3945	2041				
TRIVENDRUM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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
September maturity	Early Kunwari, Pant Gobhi 3, Pusa Early Synthetic
October maturity	Pusa Deepali, Pusa Katki
November maturity	Hisar 1, IIHR 101, IIHR 105, Improved Japanese, Panth Gobhi 2, PG 26, PG 35, Pusa Hybrid 2, Pusa Sharad
December maturity	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	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		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
UTTARAKHAND		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

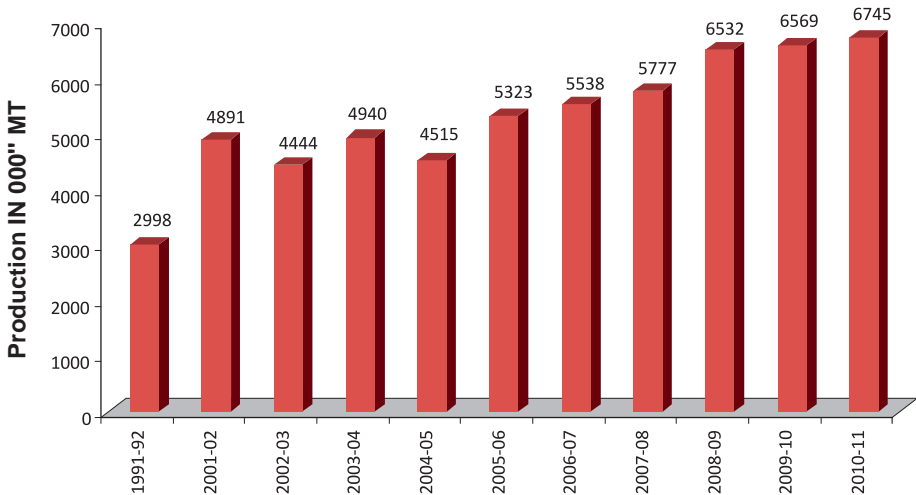
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



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



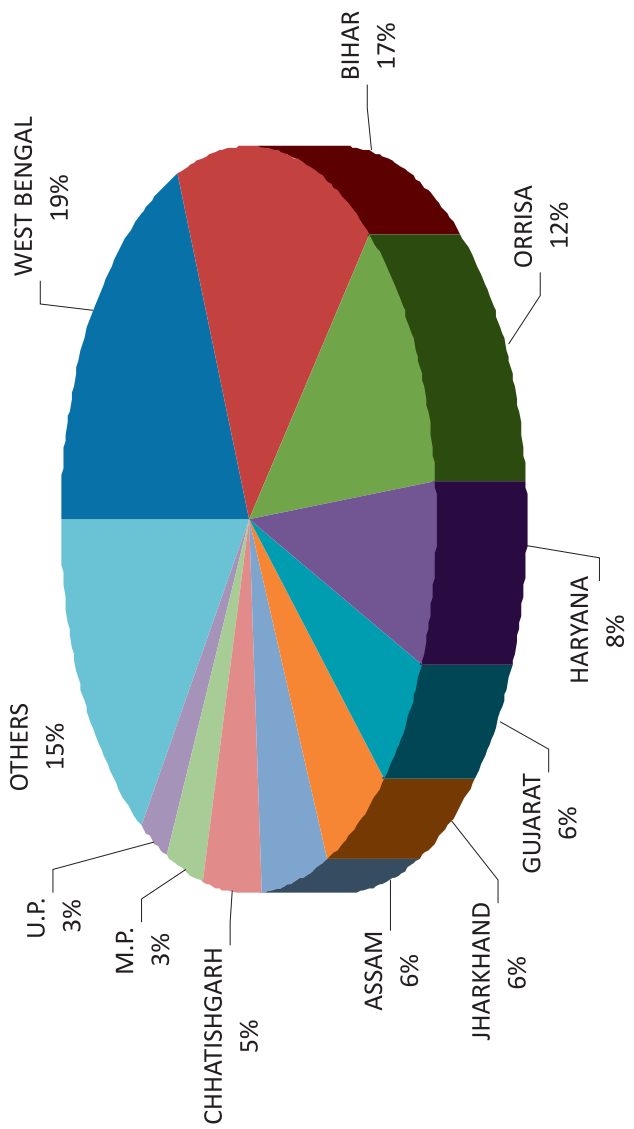
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF CAULIFLOWER



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
TOTAL	348.9	6531.9	18.7	347.9	6569.0	18.9	368.7	6744.9	18.3



Leading Cauliflower Producing States (2010-11)



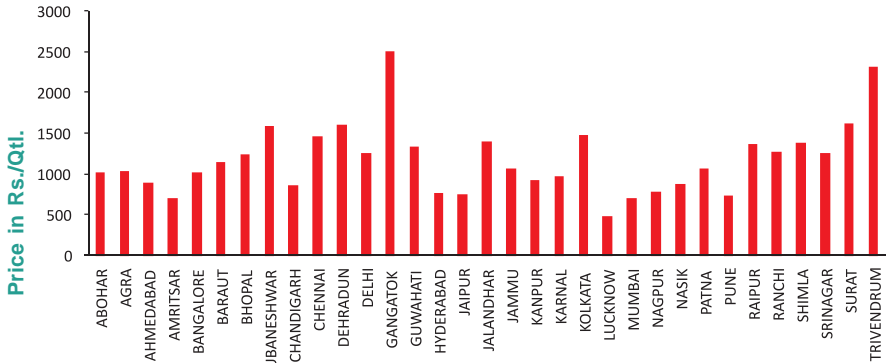
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF CAULIFLOWER DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

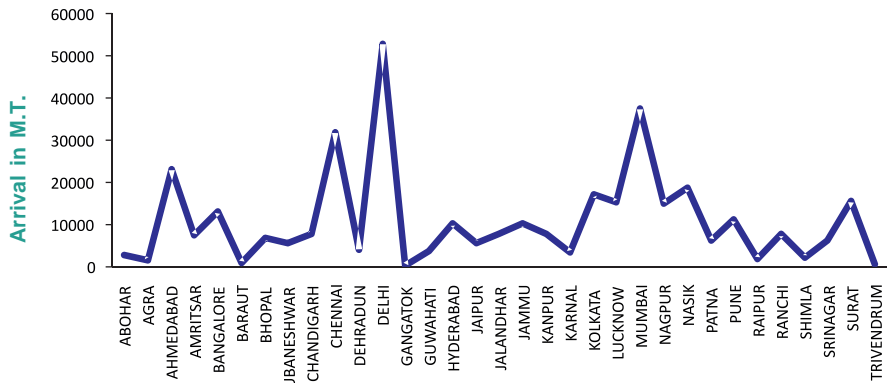
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual			
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival		
ABOCHAR	1042	252	646	196	666	401	843	219	784	132	-	-	-	-	1287	162	1279	173	1878	243	1140	361	646	704	1024	2843		
AGRA	340	167	176	389	147	594	98	-	-	-	-	-	-	-	2948	85	1934	156	1284	158	930	215	708	407	1038	1609		
AHMEDABAD	503	3133	230	3083	557	2420	471	1418	904	1414	1115	1632	1035	1736	1043	1618	1356	1398	1486	1270	1168	2025	872	1915	898	23282		
AMRITSAR	675	936	377	1295	434	1207	418	1158	-	-	-	-	-	-	-	-	-	-	-	-	1919	583	519	989	600	1253	706	7431
BANGALORE	1463	886	640	1117	638	1335	864	1327	898	1448	1422	904	1077	1334	594	1268	926	1076	1211	620	1446	812	1068	980	1021	13107		
BARAUT	958	192	580	187	1194	175	886	119	2814	50	-	-	-	-	-	-	-	-	-	1634	77	604	158	600	148	1159	1106	
BHUBANESHWAR	941	1280	532	1190	1118	336	1316	159	1955	92	1920	86	2206	140	2188	178	2343	164	2197	179	1788	688	539	1285	1587	5787		
CHANDIGARH	683	1197	362	1347	717	1248	765	763	-	-	-	-	-	-	-	-	-	-	-	1955	575	838	1232	714	1520	862	7882	
CHENNAI	1684	3610	1257	3858	1051	6082	970	3680	1138	2600	1483	1600	1604	1339	1676	2089	1635	2600	1596	1519	1900	1094	1644	1824	1468	32105		
DEHRADUN	670	539	409	487	625	594	786	354	1523	214	2034	64	2367	156	3765	94	3522	67	2296	213	713	517	565	670	1608	3869		
DELHI	689	5506	232	6439	510	5693	659	2262	913	3616	1579	3481	1779	4146	2648	3112	2556	5064	2174	5194	562	4582	812	3844	1259	52939		
GANGATOK	979	53	754	49	1313	50	1464	28	1754	31	2850	22	4316	23	5287	11	-	-	-	5170	22	2392	34	1358	31	2512	352	
GUWAHATI	773	778	496	732	791	529	753	188	-	-	-	-	3100	18	-	-	-	-	-	2688	196	1433	528	700	719	1342	3688	
HYDERABAD	904	951	712	887	488	1217	447	418	788	367	888	288	875	967	838	1688	764	783	948	220	1045	667	630	2046	776	10499		
JAIPUR	826	1310	556	1080	568	814	656	432	650	116	-	-	-	-	-	-	-	-	-	1352	189	630	738	769	921	751	5600	
JALANDHAR	738	2929	602	2179	524	1544	453	415	1265	140	2353	115	2136	118	2737	8	-	-	-	2074	208	1098	130	-	-	1398	7786	
JAMMU	700	1164	409	1341	481	1346	767	779	1170	341	828	1100	1154	356	1802	100	2204	309	2041	822	638	1688	744	1166	1078	10512		
KANPUR	265	3240	121	2973	239	483	203	207	-	-	-	-	-	-	1967	323	1500	575	2245	159	-	-	-	-	-	934	7860	
KARNAL	709	356	293	344	547	347	817	249	1220	27	-	-	-	-	1752	65	1721	172	1647	240	454	906	600	759	976	3465		
KOLKATA	736	5224	401	3996	887	1409	979	698	1382	232	1736	272	2204	259	2301	279	2350	247	2552	332	1678	1665	615	2731	1485	17344		
LUCKNOW	489	2735	274	2790	456	1038	412	460	-	-	-	-	-	-	-	-	-	-	-	-	972	2252	344	6253	493	15528		
MUMBAI	460	6166	318	3636	447	3006	427	2296	580	2342	879	3084	977	3286	929	2804	1119	2991	1079	2491	883	2490	496	2906	712	37498		
MANGPUR	521	1420	179	2950	460	1260	326	1130	593	1640	866	920	1339	830	1429	960	1071	932	1302	900	853	890	544	1080	790	14912		
NASIK	1202	2150	298	3700	377	2930	286	1885	749	1975	1125	1735	1312	941	1985	377	1341	1317	1078	650	850	1045	692	1080	888	18845		
PATNA	873	1065	460	1240	877	710	809	335	-	-	-	-	-	-	1750	11	1714	215	1624	830	987	1005	633	885	1081	6296		
PUNE	713	1125	461	1109	595	1128	563	647	548	871	874	1120	882	1155	923	703	972	730	930	652	913	845	561	1228	742	11337		
RAIPUR	1170	282	498	450	753	167	836	100	1067	89	1544	42	1731	47	2088	46	2104	85	2036	88	1768	142	962	228	1380	1765		
RANCHI	1049	872	531	807	817	709	635	675	935	538	1555	274	1522	445	2947	457	1635	654	2391	606	1480	858	683	1058	1273	7948		
SHIMLA	1128	236	685	300	730	274	941	1468	1197	1656	2035	109	1714	177	2443	94	1860	216	-	-	1435	211	1123	302	1390	2230		
SRINAGAR	1183	638	955	626	1033	494	1169	481	1348	557	1020	623	1375	451	1855	161	2050	114	1708	505	767	873	775	746	1270	6389		
SURAT	1188	1560	678	1470	876	1350	683	1520	1430	1028	1998	734	2187	1285	2244	1328	1985	1342	2002	1360	2398	1270	1892	1600	1630	15827		
TRIVENDRUM	2078	67	2016	73	1654	94	1914	58	2559	60	2606	61	2344	77	2316	64	2389	60	2394	30	2741	29	2773	27	2315	700		



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 ^o -10 ^o C | -18 ^o C to -24 ^o C |
| Relative Humidity | : 90-95% | – |
| Storage Period | : 7-10 days | 5 months - 1 year |
| Freezing point | : -1 ^o 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			■	■		■	■	■	■	■	■	■
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			■	■	■	■	■	■				

■ PEAK SEASON
 ■ LEAN SEASON
 ■ ROUND THE YEAR

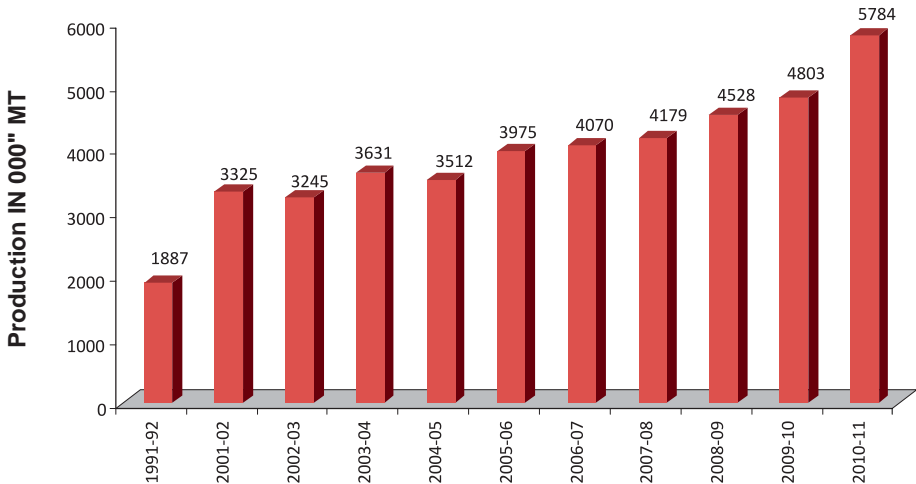
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



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

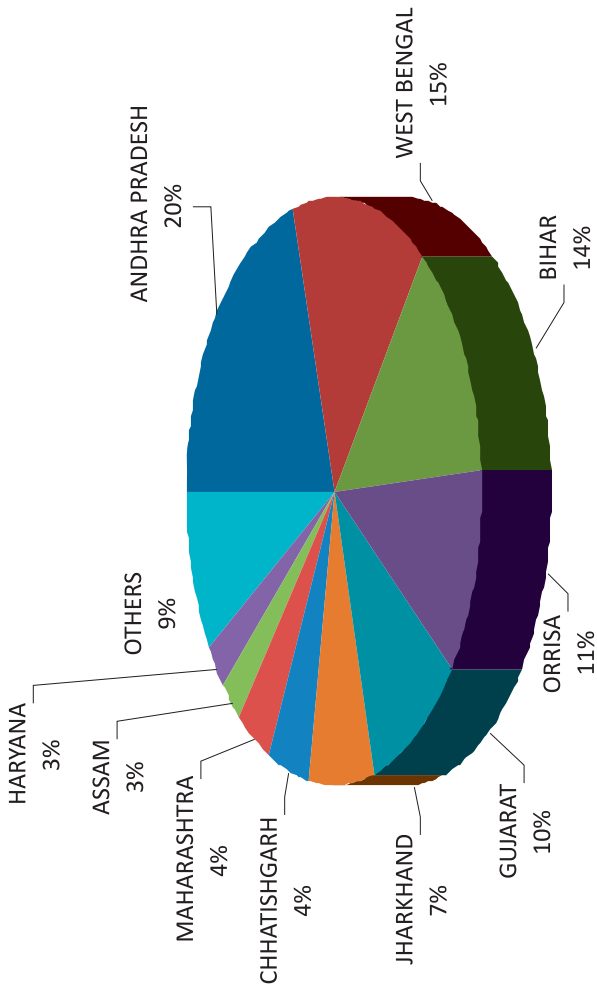


STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF OKRA



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
TOTAL	402.3	4088.1	10.2	452.5	4803.2	10.6	498.3	5784.0	11.6

Leading Okra Producing States (2010-11)



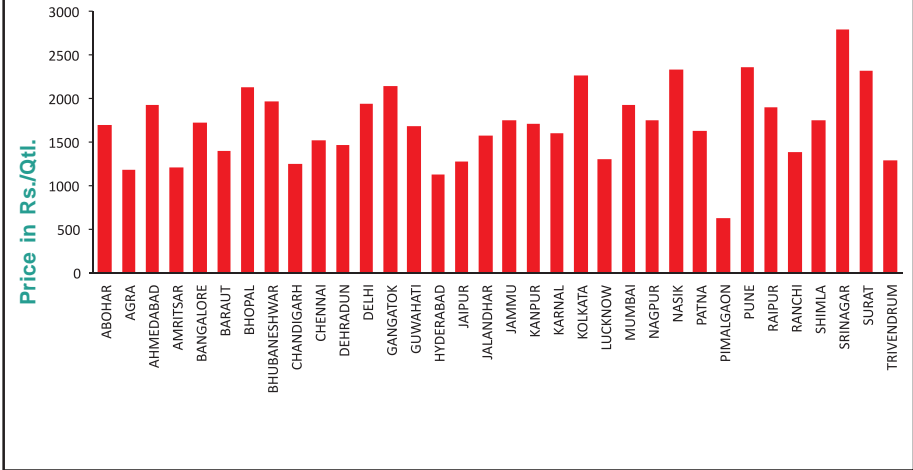
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF OKRA DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

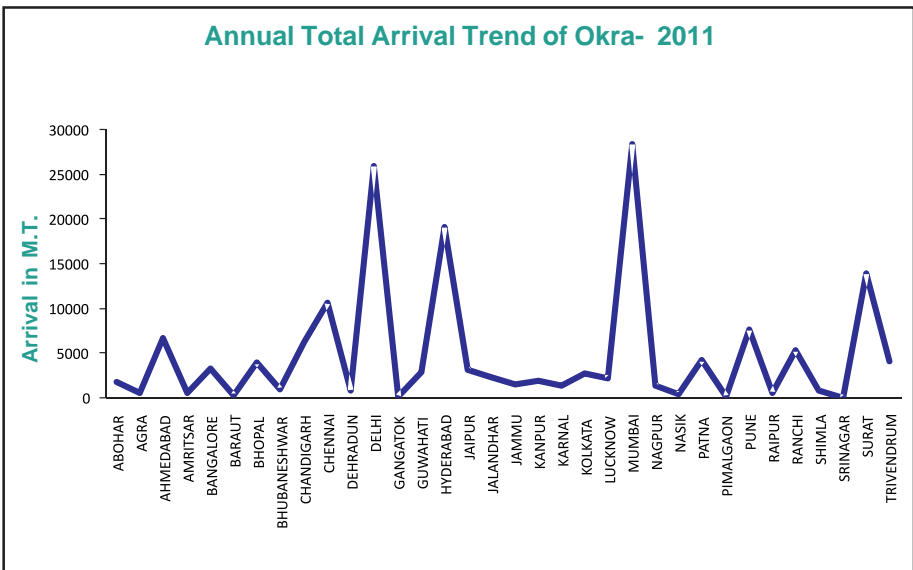
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual		
	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival	Price	Price Arrival
ABOHAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AGRA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AHMEDABAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMRITSAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BANGALORE	2371	232	2227	255	1519	267	1293	253	1584	303	1657	497	1457	278	1562	324	1796	327	1788	150	1671	153	1804	216	1725.75	3315	
BARAUT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BHOPAL	2826	25	2828	31	2440	121	1545	514	748	814	1706	246	2229	428	1772	497	2215	294	1871	573	2479	283	2956	136	2134.58	3962	
BHUBANESHWAR	2828	37	2868	27	1859	74	736	197	726	234	1536	60	1608	76	1864	87	2758	42	2721	32	2798	31	1650	47	1978.83	944	
CHANDIGARH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHENNAI	3392	458	2796	383	1046	1465	888	903	1236	793	1590	1140	1585	694	982	1317	1001	1361	1113	737	1100	731	1624	722	1327.75	10704	
DEHRADUN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DELHI	3038	1173	2583	2140	2563	4539	2188	3118	1312	2139	781	2706	1246	2661	1171	2065	1851	1673	1676	1935	2328	595	2608	1218	1945.42	25962	
GANGTOK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUWAHATI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYDERABAD	1542	1228	1179	1287	956	1460	679	781	1172	713	1515	1073	1300	1409	1653	1070	825	3928	863	1387	1070	1374	1520	3491	1691.17	28068	
JAIPUR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JALANDHAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JAMMU	3671	59	2911	64	2777	77	2517	85	1072	230	794	236	815	188	1042	170	1167	131	889	130	1273	71	2133	46	1755.08	1487	
KANPUR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KARNAL	3174	31	2378	23	2223	29	1780	60	939	161	882	250	1030	222	888	197	1423	185	1636	134	1314	39	-	-	-	-	-
KOLKATA	3550	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LUCKNOW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MUMBAI	2571	1566	1952	2309	1866	4143	1573	2054	1424	1973	2129	1920	2096	1899	2154	1679	1754	3011	1448	3053	2433	2236	1856	2596	1938	28439	
MANGRUP	2706	124	2245	84	1674	110	1261	91	1210	112	1582	449	2276	96	1686	105	1213	122	1590	128	2144	116	1550	110	1761.42	1347	
NASIK	2534	27	2982	23	2494	33	2275	24	1460	35	2006	44	2370	26	2493	24	2473	26	1738	25	2131	24	3125	35	2340.92	346	
PATINA	2225	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PATINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PATINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PATINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PATINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PATINA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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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 :

	Fresh	Frozen
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, Tirunllveli).

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

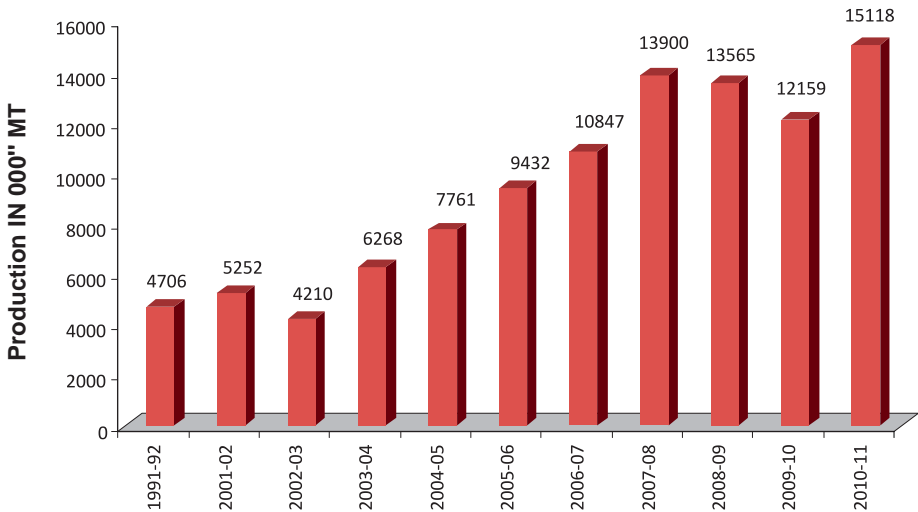
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF ONION

YEAR	AREA	%OF TOTAL	PRODUCTION	%OF TOTAL	PRODUCTIVITY
	(IN 000" HA)	VEG.AREA	(IN 000"MT)	VEG.PRODUCTION	(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

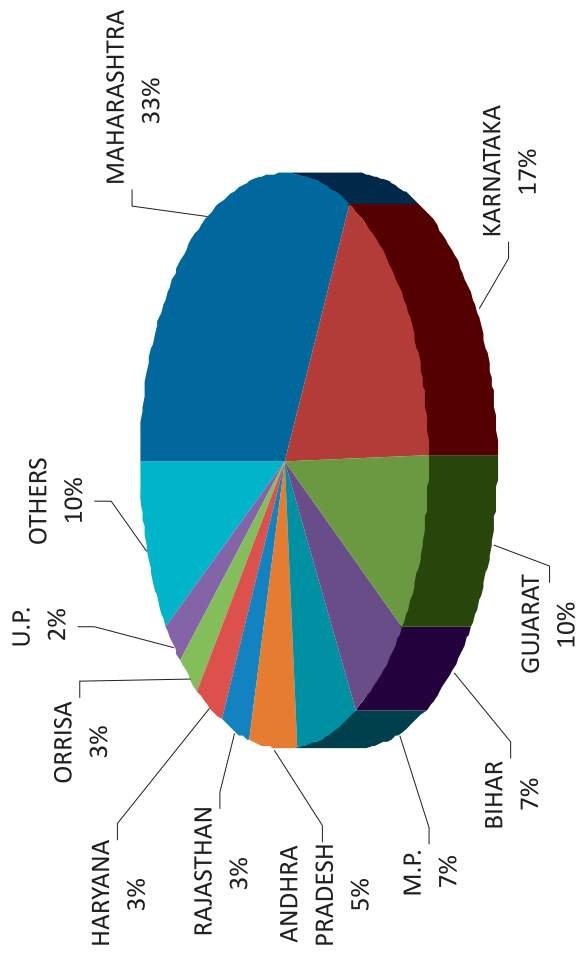


AREA IN 000' HA PRODUCTION IN 000' MT PRODUCTIVITY HA/MT

State	2008-09			2009-10			2010-11		
	Area	Production	Pdy.	Area	Production	Pdy.	Area	Production	Pdy.
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								
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
TOTAL	834.2	13564.5	16.3	756.2	12158.8	16.1	1063.8	15117.7	14.2



Leading Onion Producing States (2010-11)



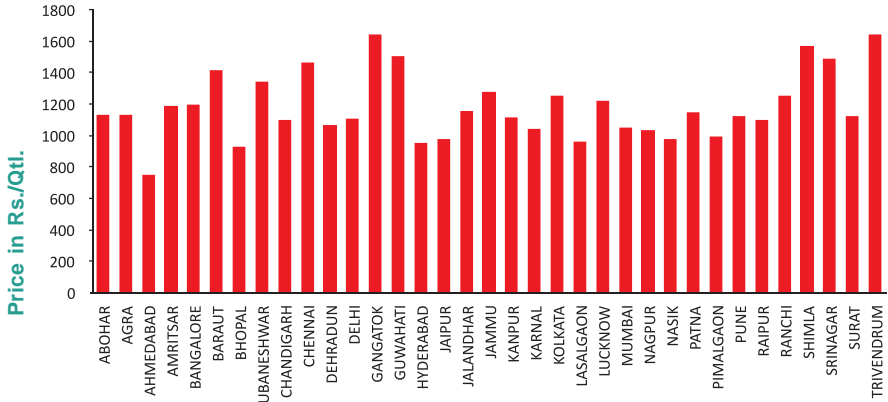
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF ONION DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

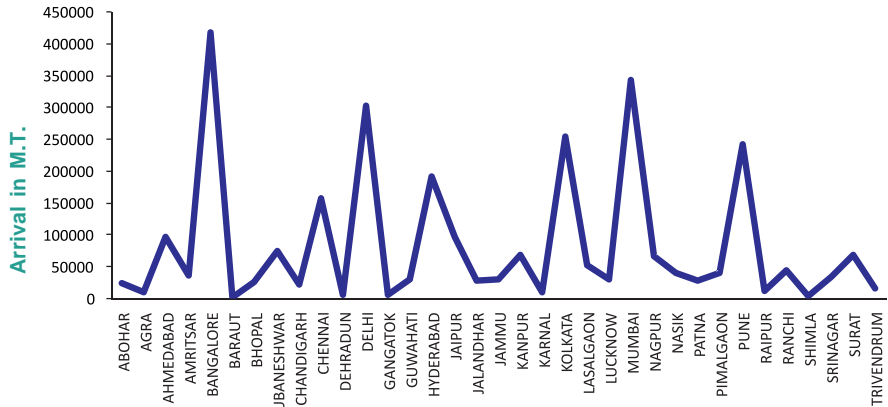
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual	
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival
ABOHAR	2933	1545	1377	1050	1112	2330	813	2460	684	2695	639	2465	904	2209	843	1980	983	2105	1091	1980	1195	1675	1033	2275	1134	24769
AGRA	2950	825	1323	740	785	710	568	673	543	850	533	1140	746	1580	1141	793	1342	950	1436	772	1261	813	962	904	1133	10820
AHMEDABAD	2232	5324	915	8292	457	8896	416	7820	385	7381	463	9352	621	9392	740	8446	793	8918	734	6362	731	9107	535	9241	752	97722
AMRITSAR	3346	2165	1361	4060	790	4565	677	3755	647	1415	619	2290	993	1780	1310	1835	1503	2985	1206	3345	1074	3465	775	5390	1192	36970
BANGALORE	3854	21500	1258	29370	680	26190	646	24250	675	24550	820	25450	1070	23820	1300	23860	1230	46860	1067	44500	1030	70700	793	56500	1203	417500
BARAUT	3886	136	2198	160	1147	255	791	146	754	184	713	214	800	192	1242	165	1454	167	1496	152	1492	154	1027	1689	1417	2094
BHOPAL	2562	1114	1019	1566	569	3000	496	3459	428	3668	527	2885	740	1143	924	1106	1412	969	1081	847	789	2293	614	4861	930	26911
BHUVANESHWAR	3643	4705	1486	5700	913	6970	786	7350	796	6750	932	6900	1144	5900	1357	5240	1450	5101	1289	3620	1292	5710	1032	7980	1343	73926
CHANDIGARH	2846	1342	1733	1717	765	1995	747	1756	579	2286	672	6820	1162	2690	1042	1762	1313	1637	1052	1006	1655	843	1899	1103	23725	
CHENNAI	3924	11250	1399	12850	880	14480	1010	10580	928	13710	1056	11860	1165	12710	1388	16425	1441	16410	1476	11765	1422	10861	1372	13489	1471	156390
DEHRADUN	3628	334	1285	416	715	508	520	527	489	469	560	606	815	647	1017	1040	1084	711	996	675	1033	353	661	680	1067	6966
DELHI	3255	15490	1162	18933	893	27218	570	21268	559	24289	681	29025	935	26601	1182	23052	1285	24414	1196	23413	945	29971	815	38139	1107	301863
GANGATOK	4181	4595	2030	88	1229	128	799	103	803	120	938	112	1250	107	1543	108	1923	90	1937	103	1632	107	1450	120	1648	5780
GUWAHATI	3827	2350	1873	3120	900	3575	817	2422	889	3155	914	3160	1220	2875	1510	2115	1783	2000	1685	1955	1415	1895	1212	2466	1510	31088
HYDERABAD	2875	9300	1267	8598	986	11021	461	5738	400	6837	515	8009	752	8028	1243	15857	1066	11567	924	10685	842	18938	523	77002	955	191580
JAIPUR	2226	3581	1288	6254	629	11580	629	11580	499	9170	589	10304	790	7324	905	8498	1168	8771	1372	7775	1089	6408	703	9214	983	96140
JALANDHAR	3202	2007	1388	2080	790	3011	613	2895	584	3737	608	3196	727	2498	955	2330	1213	3381	1301	2452	1390	610	0	0	1161	82327
JAMMU	3325	1021	1398	3085	1135	3831	749	2875	682	2602	676	2244	980	2066	1394	1399	1623	2068	1282	3416	1060	3318	888	2479	1284	30402
KANPUR	2712	3467	1298	5642	639	6881	643	8773	599	10073	574	16437	863	8246	1114	2976	1318	4610	1205	2127	0	0	0	0	1117	69322
KARNAL	2615	343	1383	668	677	1113	609	1001	758	1088	563	1045	776	855	1054	540	1197	557	1251	625	1081	868	839	1147	1047	9850
KOLKATA	3353	7426	1255	18604	649	12024	568	10217	531	10180	889	15786	1166	23408	1418	21380	1468	26672	1332	26592	1203	52960	982	29200	1253	254449
LASALGAON	2679	3420	975	4390	520	5330	520	5330	583	3630	672	2795	835	3355	1015	4430	1097	3920	836	6480	993	4610	902	4600	969	52210
LUCKNOW	3460	1462	1403	2567	875	3025	677	3101	660	3666	718	3098	951	2279	1275	1815	1340	2344	1307	2052	1167	2003	908	3236	1224	30648
MUMBAI	2660	23974	994	36145	614	31530	598	23095	663	19750	802	19840	874	21073	1178	17112	1305	24951	1137	23132	1078	40401	729	46130	1053	342633
MAGPUR	2640	4480	1216	5500	706	8400	561	5780	601	6300	641	6180	834	4340	1017	1172	3600	1318	5976	1098	6040	754	6900	1034	67608	
NASIK	2626	3400	970	4050	561	5120	562	4470	593	4940	715	2785	884	2760	1083	2075	1164	1890	819	3310	966	2260	613	2560	980	93560
PATNA	2841	1605	1313	2280	712	5910	632	2855	636	1575	578	1380	1120	1840	1800	1248	1500	1355	2850	1354	1545	1085	1815	1151	27795	
PINALGAON	3730	10530	1059	23615	580	48779	546	24532	556	14892	810	15317	987	21071	1093	14150	1028	20912	1049	14938	789	18177	1124	242551		
RAIPUR	3044	1046	1243	1395	698	1644	606	1390	616	1477	725	1490	980	861	1150	756	1241	900	1179	747	1055	764	778	969	1106	13098
RANCHI	3142	1123	1484	1554	868	2477	627	2970	656	3682	750	4607	1013	4529	1333	4524	1438	4450	1494	4500	1312	4808	986	5151	1259	44375
RANCHI	4314	142	1835	255	1493	269	1063	311	906	244	815	371	1004	345	1444	285	1605	1674	245	1510	283	1190	372	1571	3406	
SHIMLA	3564	1165	1730	2086	1095	2845	970	2865	957	4280	985	3530	1020	1074	1575	1714	1990	1639	2930	1415	3945	1908	4190	1492	33396	
SURAT	3160	5101	1259	5410	657	6175	623	5443	650	5955	669	6044	837	5638	968	5330	1265	5380	1265	5245	1201	5600	952	6500	1126	67821
TRIVENDRUM	4108	185	1805	556	1206	1556	1067	1088	1041	1392	1248	1481	1337	1169	1662	1285	1783	870	1566	645	1598	4177	1359	965	1648	15349



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	█	█									█	█
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

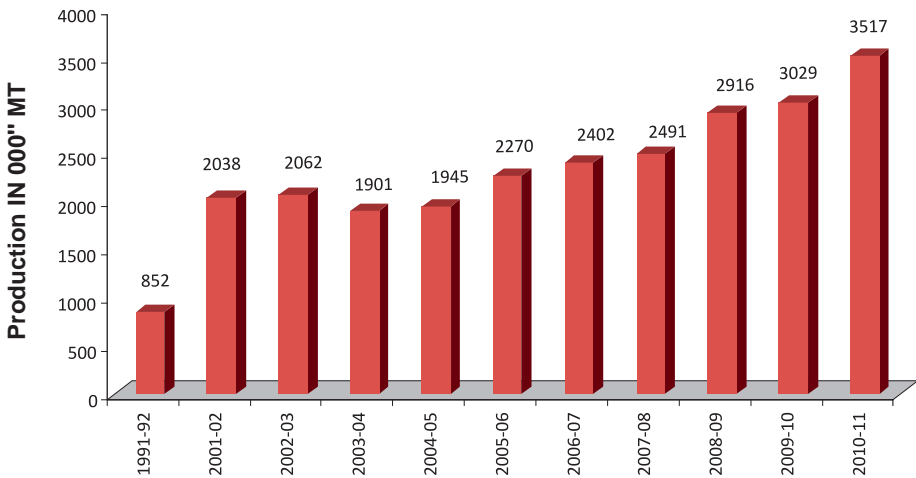
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF 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

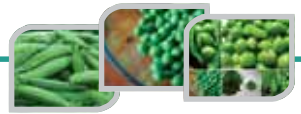
Production Trend of Peas



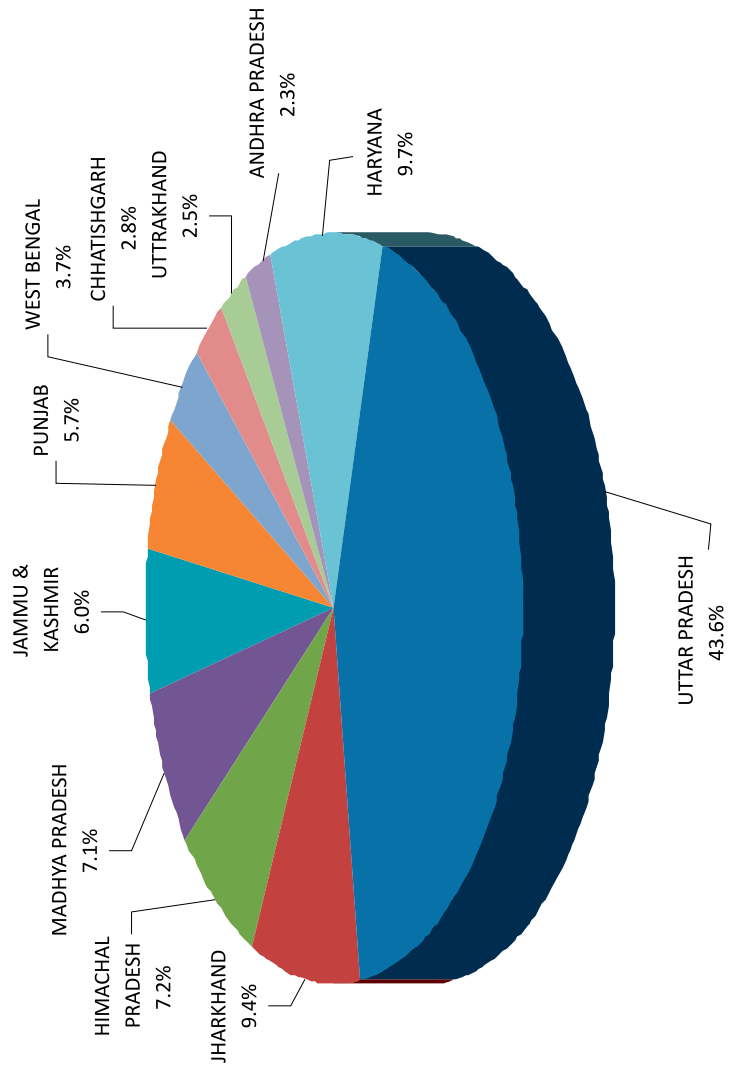
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF PEAS



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
TOTAL	348.1	2916.5	8.4	364.9	3029.4	8.3	369.8	3517.4	9.5



Leading Peas Producing States (2010-11)



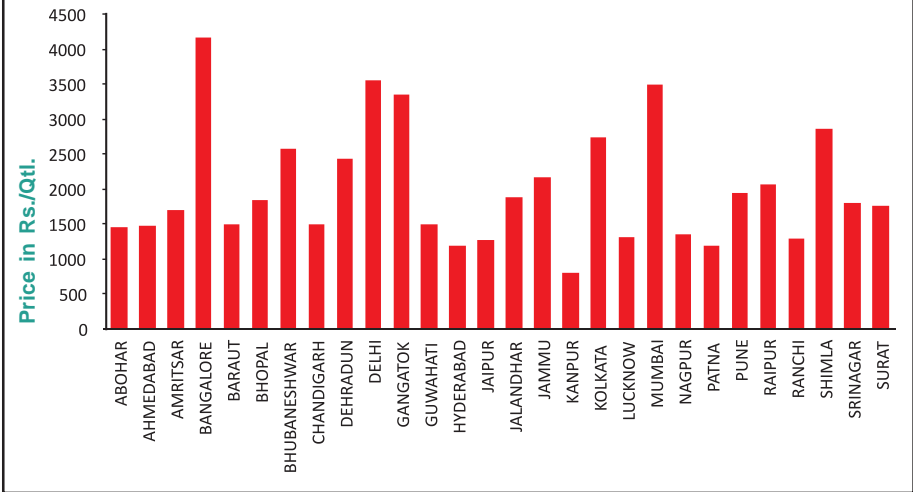
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF PEAS DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

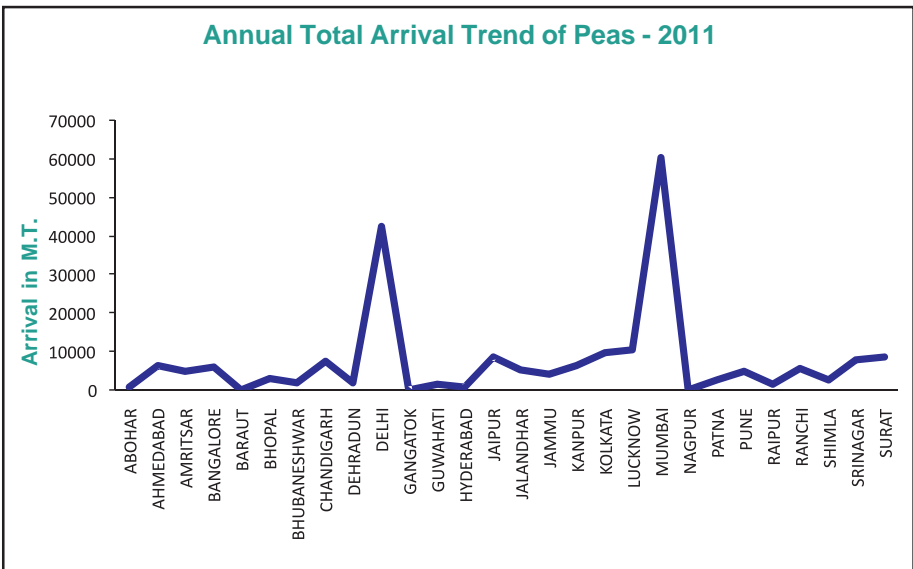
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual										
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival									
ABOHAR	1463	91	1246	56	1268	221	1750	75	-	-	-	-	-	-	-	-	-	-	-	-	1940	41	1171	424	1473	908									
AHMEDABAD	1331	1588	983	2688	1041	1444	2014	99	-	-	-	-	-	-	-	-	-	-	-	-	2225	112	1316	899	1485	6490									
AMRITSAR	1465	844	848	944	827	841	1532	546	1354	232	-	-	-	-	-	-	-	-	-	-	3921	104	2840	343	840	1265	1703.38	5119							
BANGALORE	2292	1163	1794	1548	2415	1003	4230	384	5893	556	7060	473	4772	115	2750	193	3404	145	5500	65	6698	96	3393	228	4193.42	5969									
BARAULT	1790	81	1376	82	1072	129	1170	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2158	60	1513.2	364					
BHOPAL	1296	846	961	720	1262	672	2382	22	-	-	-	-	-	-	-	-	-	-	-	-	-	3908	6	1308	888	1852.83	3154								
BHUBANESHWAR	1943	378	1016	675	1448	510	2743	36	-	-	-	-	-	-	-	-	-	-	-	-	-	5686	32	2750	354	2581	1985								
CHANDIGARH	1025	1180	918	1560	892	1591	1443	504	1976	514	1988	373	-	-	-	-	-	-	-	-	-	2592	495	1165	1470	1499.88	7887								
DEHRADUN	842	408	841	241	831	317	1573	376	1694	108	2154	41	4210	21	5215	28	5468	17	-	-	-	2797	50	1211	383	2439.64	1988								
DELHI	1481	7692	1129	6689	1038	5142	2053	2262	2315	3507	3904	1629	5054	1689	5226	1747	7804	614	7511	639	3980	2637	1354	8574	3570.75	42801									
GANGATOK	3160	31	2146	29	1691	30	2990	17	3378	22	3740	19	4424	14	-	-	-	-	-	-	-	-	-	-	-	-	5395	21	3361.75	181					
GUWAHATI	1908	553	933	614	965	434	2250	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1514	1712				
HYDERABAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1211	1062	1211	1062
JAIPUR	1189	3155	673	1707	553	1491	1014	158	-	-	-	-	-	-	-	-	-	-	-	-	-	3064	383	1208	1750	1283.5	8644								
JALANDHAR	1692	2044	1357	1258	953	1271	1880	341	2609	226	2845	159	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1869.33	5299							
JAMMU	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									
KANPUR	967	3432	611	2876	852	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	810	6497	
KOLKATA	1861	3103	923	3178	1478	1013	2398	300	3530	40	-	-	-	-	-	-	-	-	-	-	-	6441	361	2825	1773	2750.86	9768								
LUCKNOW	1351	2298	723	3083	1256	779	1910	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1364	4247	1320.8	10518					
MUMBAI	1658	9303	1117	11915	1400	9390	2986	2522	3046	2929	4075	2011	3908	3006	3371	3273	5477	1560	8458	1055	4725	3028	1744	10838	3497.25	60550									
MAGPUR	1726	134	1074	151	1263	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1354.33	353	-	-	-	-	-	-	
PATNA	1435	1135	853	945	1132	475	1013	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1569	135	1200.4	2730					
PUNE	2303	1680	1989	938	2443	516	2900	15	-	-	-	-	-	-	-	-	-	-	-	-	-	950	760	1950	135	1962.14	5209								
RAIPUR	1509	425	1308	526	1319	328	2732	34	-	-	-	-	-	-	-	-	-	-	-	-	-	3880	96	1716	277	2077.33	1646								
RANCHI	1086	829	530	856	738	705	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2580	84	1557	3348	1288.2	5822			
SHIMLA	1697	147	1542	225	1048	148	1407	258	1910	486	2142	345	2465	270	3396	113	4032	93	7369	96	5338	155	2183	335	2874.92	2881									
SRINAGAR	2146	1007	1464	1230	1465	940	2048	620	1382	1333	1241	885	-	-	-	-	-	-	-	-	-	2438	195	1369	190	1810.33	7855								
SURAT	1734	5725	1139	1235	1452	739	2874	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1665	1047	1772.8	8858					



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 Paste 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												
PONDICHERY												

█ PEAK SEASON
 █ LEAN SEASON
 █ ROUND THE YEAR

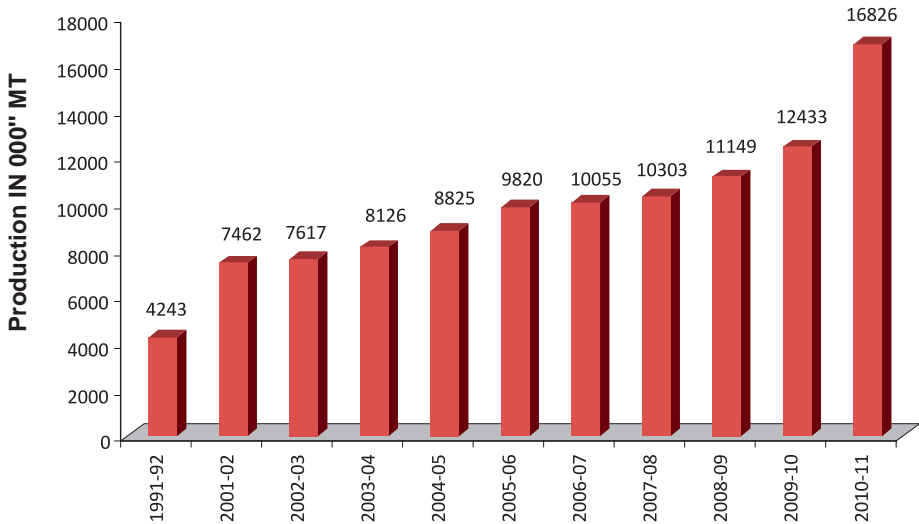
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF 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



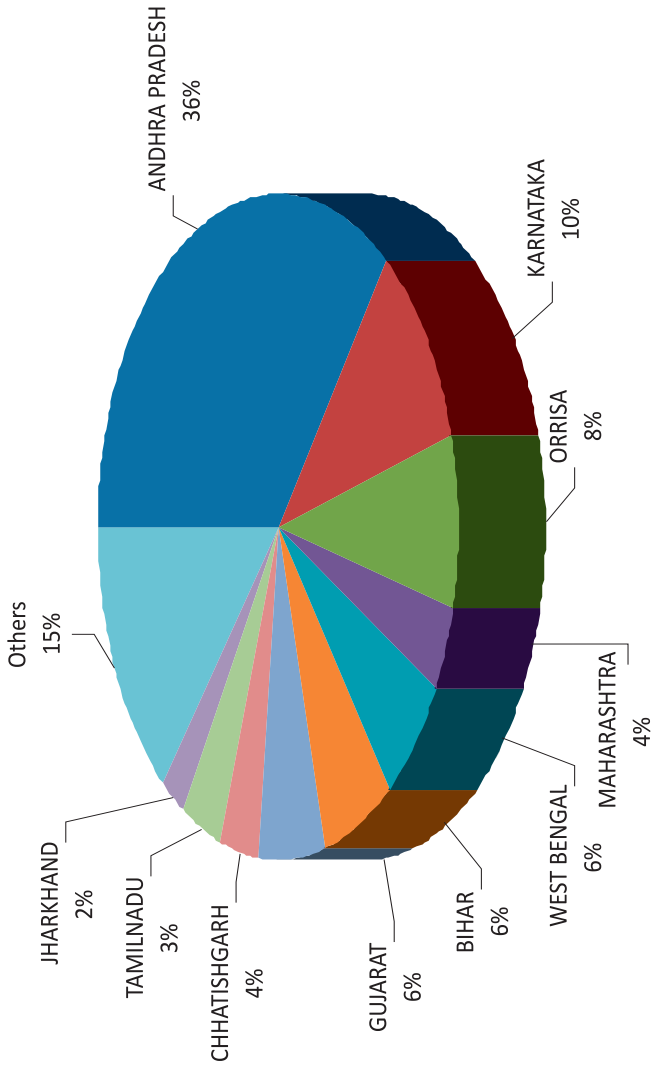
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF TOMATO



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
TOTAL	599.1	11148.8	18.6	634.4	12433.2	19.6	864.9	16826.4	19.5



Leading Tomato Producing States (2010-11)



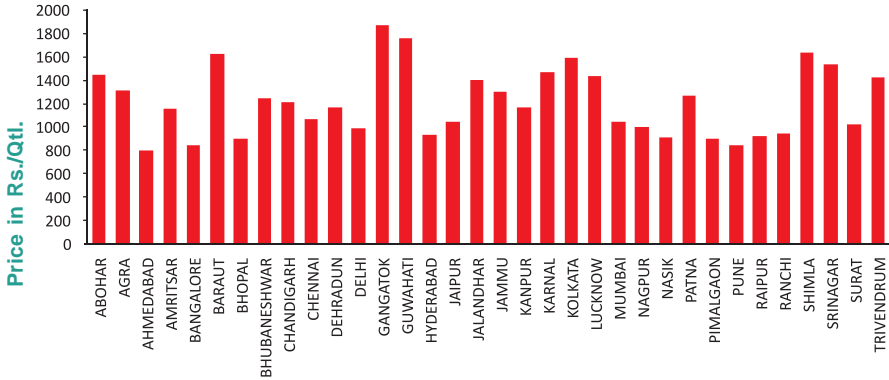
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF TOMATO (HYBRID) DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

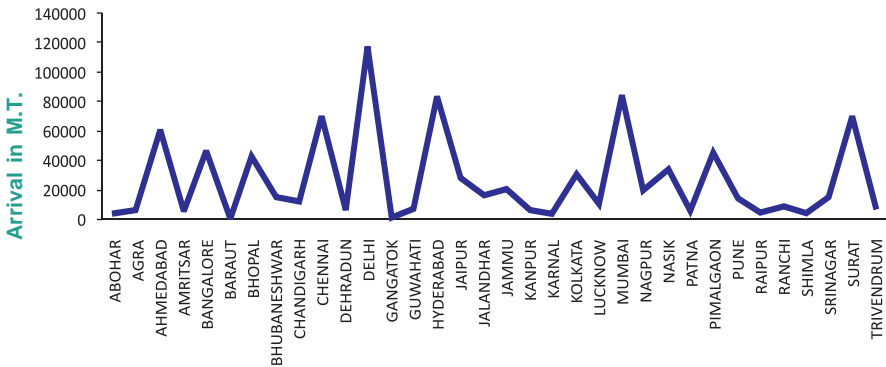
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual		
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	
ABOHAR	1529	89	1525	48	1325	130	1582	122	1120	179	1048	255	1712	253	1226	358	1338	270	1861	212	1800	151	1108	364	1440	2429	
AGRA	1646	270	1081	257	1420	274	1011	542	794	442	1016	410	1513	476	1095	470	1172	585	2155	384	2086	738	700	60	1307	4708	
AHMEDABAD	1574	5986	574	3913	6461	594	5518	5040	5840	5682	5431	833	5966	874	4284	874	4284	874	4284	874	4284	874	4284	874	4284	874	4284
AMRITSAR	2295	378	959	693	1002	975	602	486	555	318	871	1504	478	1160	543	1129	645	1814	441	1448	484	758	760	1154	7042		
BANGALORE	1831	3511	540	4637	555	4270	532	3134	873	3033	928	3483	500	4642	333	5013	528	4698	1047	2367	1613	2547	870	3282	846	44617	
BARAULT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BHOPAL	1766	1954	796	2843	656	3361	379	3617	489	3615	947	3108	1398	2536	708	3195	956	2960	1415	3036	894	6145	374	4209	898	40579	
BHUBANESHWAR	1790	855	832	1300	884	715	768	600	1020	735	1127	1060	1228	1325	1071	1254	1382	1605	2082	1210	1720	1555	973	2530	1240	14774	
CHANDIGARH	1558	713	1008	874	1120	965	1167	842	800	1236	894	1484	1292	1412	1229	989	1225	1022	1987	827	1570	903	841	1107	1207	12154	
CHENNAI	2093	5640	783	6430	582	6420	520	4330	856	5160	803	4472	603	5270	725	9185	1179	9610	1585	4065	2072	3610	1046	5439	1069	69831	
DEHRADUN	2769	400	863	348	935	461	1164	414	507	611	617	434	1084	777	920	1210	1354	726	1774	354	1573	346	741	889	1171	6770	
DELHI	1827	9074	842	7894	1042	10474	1013	9026	167	1507	547	10369	1148	11355	925	10394	1113	9854	1847	8036	978	12347	469	14543	983	116173	
GANGATOK	1890	39	1363	38	1432	38	1357	34	1331	39	1411	26	2242	25	2239	30	1875	32	2313	35	3079	38	1925	43	1871	415	
GUWAHATI	1017	641	684	631	695	632	688	415	952	455	1539	392	2867	288	2888	283	2638	373	2915	344	2809	354	1431	2063	1780	6871	
HYDERABAD	1385	5990	606	3702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JAIPUR	-	-	-	-	1082	1458	920	1305	816	97	1710	40	1208	2820	759	7576	879	6392	1219	3237	1089	2704	765	2418	937	82880	
JALANDHAR	2067	1906	1350	1615	1121	1785	1192	1335	1164	1175	649	1806	1621	1409	1480	1408	1243	1613	1778	1407	1767	282	-	1404	15751		
JAMMU	2396	2006	1032	2207	1123	2575	1179	2054	692	1927	756	1464	1510	1308	1067	1283	1382	1633	2136	1530	1530	1463	1651	898	1889	1304	21527
KANPUR	-	-	650	74	-	-	667	239	555	542	1094	764	1846	587	1382	1519	1138	2261	1970	303	-	-	-	-	-	1163	6289
KARNAL	1383	462	1681	292	1396	336	1930	221	1993	53	-	-	1218	190	1226	222	1207	333	1555	258	1360	138	1182	116	1467	2821	
KOLKATA	2179	2107	1203	2994	1408	1718	852	1312	1132	2238	1358	1606	1606	3682	1475	3788	1716	3884	2622	2324	2249	2892	1304	1249	1582	30748	
LUCKNOW	1635	1212	-	-	-	-	-	-	526	329	1212	1137	1637	1275	1312	1740	1263	1755	2032	1139	1766	1516	-	-	1430	10103	
MUMBAI	2433	6950	730	5587	747	5780	850	3951	567	4982	925	5147	1031	8419	625	7538	831	8606	1588	8149	1342	9103	852	9443	1043	83635	
NAGPUR	1821	1830	661	1830	672	2060	651	1520	958	1500	1109	1220	1068	1250	990	2140	1467	1730	1173	2220	1014	3190	1326	2430	751	3910	
MASIK	2079	1850	651	2525	617	3070	663	2710	582	2915	170	2340	1059	1199	757	1770	740	4890	1014	3190	1326	2430	751	3910	912	32699	
PATNA	1135	550	630	586	672	815	536	1435	638	1000	1074	555	1643	295	1683	280	1385	545	2241	625	2946	565	1213	470	1287	7730	
PIMPALGAON	2111	1120	632	2825	613	2185	854	2825	596	2320	628	1507	1058	1295	670	2900	618	9330	1028	6720	1334	3802	4800	904	43587		
PUNE	1953	1102	589	1331	623	1486	831	998	526	1382	720	1507	924	1347	541	1351	677	1005	1128	1024	746	638	1350	848	14757		
RAIPUR	1255	440	602	443	590	357	421	312	736	240	1067	237	1215	351	968	308	989	372	1324	275	1168	299	693	336	920	3970	
RANCHI	888	879	587	824	1463	673	511	655	412	714	1022	574	1381	477	1202	517	1167	610	1291	475	1283	490	630	736	945	7624	
SHIMLA	2342	129	1835	128	1459	149	1446	163	854	463	779	564	1650	290	1596	193	171	176	2534	173	2217	171	1243	262	1639	2861	
SRINAGAR	2946	680	1625	1093	1363	1295	1650	950	1204	1735	1104	1605	1603	1328	651	1885	1472	675	1943	770	1760	1040	1135	1445	1538	14311	
SURAT	2558	5508	843	5620	852	6018	888	5010	628	5690	850	5695	1282	5735	807	5623	824	6305	1435	4775	1188	5940	513	6975	1021	68784	
TRIVENDRUM	2355	212	1209	302	1037	404	1045	295	1239	346	1275	328	1182	459	1033	470	1409	3551	1666	257	2187	290	1435	559	1421	7483	



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



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



POTATO

Origin	–	South America
Major Producing States	–	Uttar Pradesh, Bihar, West Bengal, Punjab, Karnataka, Assam & Madhya Pradesh
Latest Production	–	423.39 Lakh Tonnes
Main Varieties	–	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.
Advanced Technology	–	Use of TPS (True Potato Seed)
Storage Conditions	–	

		Fresh	Frozen
Temperature	:	3 ^o - 4 ^o C	- 23 to - 18 ^o C
Relative Humidity	:	90 - 95%	Vapor-tight Packing
Storage Period	:	5 - 10 Month	1 year +

Sensibility to	–	Refrigeration and Freezing
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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, Manpuri, 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			■	■	■	■	■	■				

■ PEAK SEASON
 ■ LEAN SEASON
 ■ ROUND THE YEAR

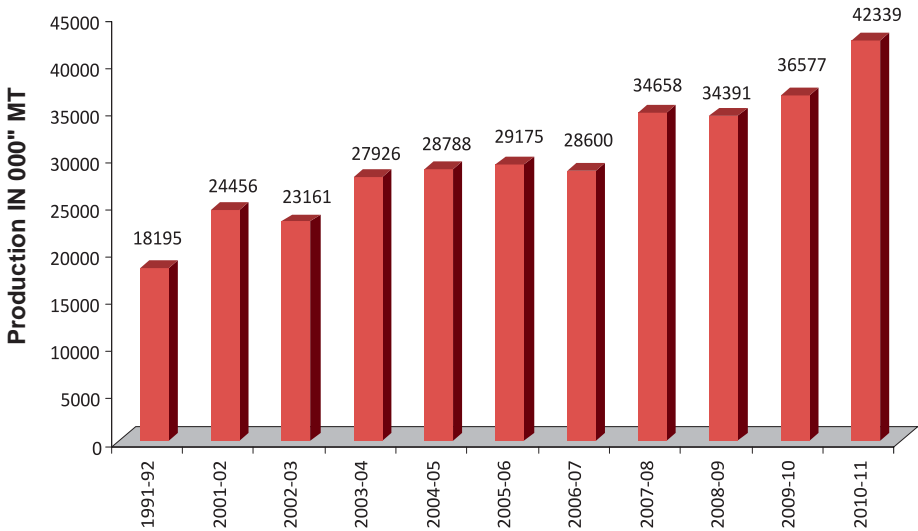
SOURCE : Director of Horticulture / Agriculture of respective State / UT's



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

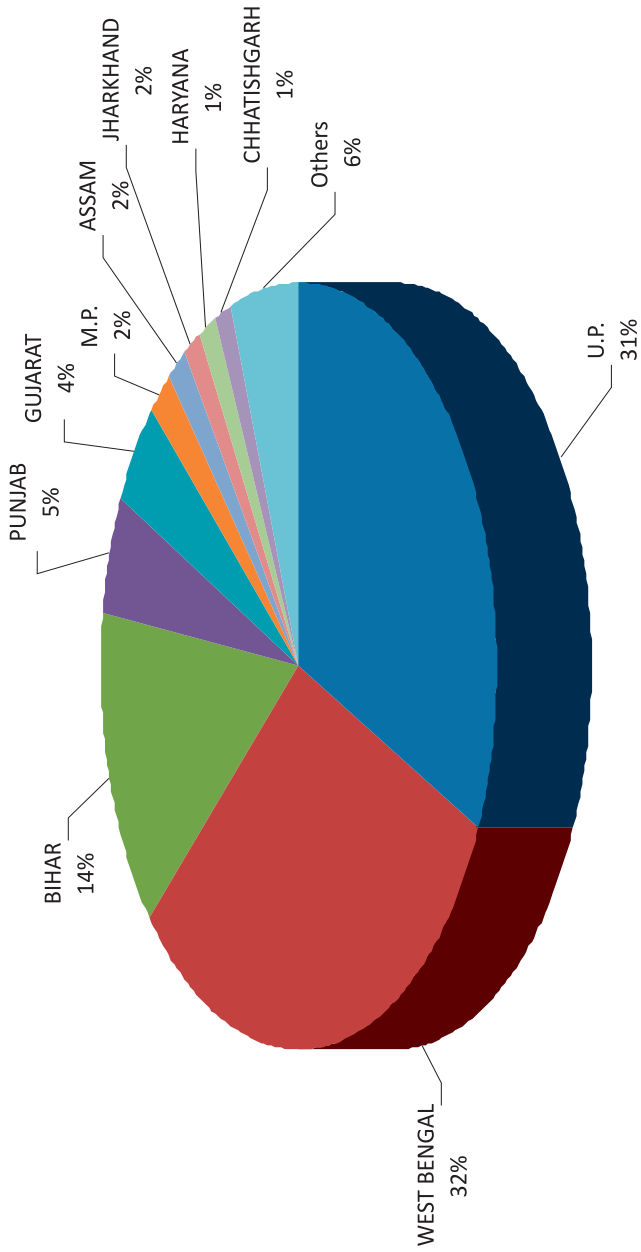


STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF POTATO



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
CHHATTISGARH				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
TOTAL	1828.3	34390.9	18.8	1835.3	36577.3	19.9	1863.2	42339.4	22.7

Leading Potato Producing States (2010-11)



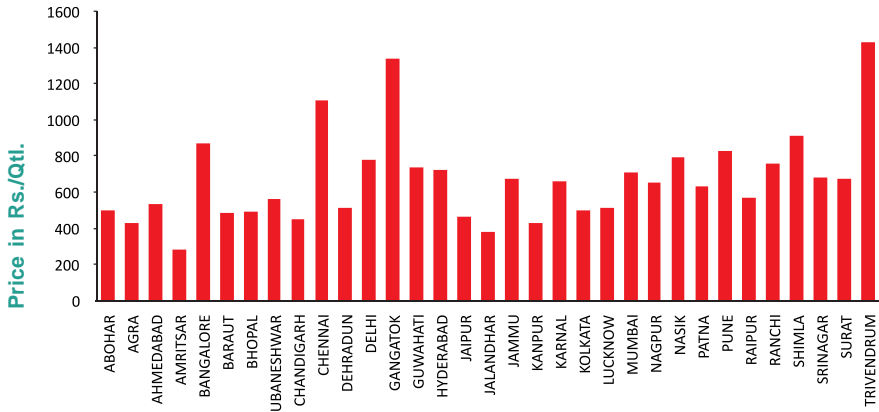
MONTHLY AVERAGE WHOLESALE PRICE AND ARRIVAL OF POTATO (FRESH) DURING THE PERIOD JANUARY TO DECEMBER, 2011

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

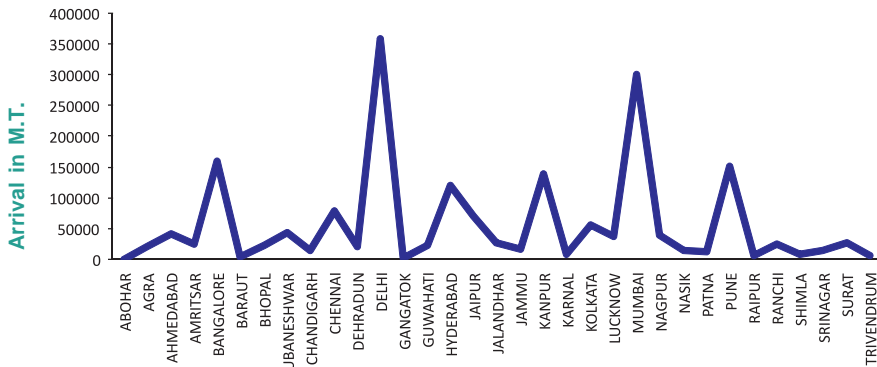
MARKET/CENTRE	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		Annual			
	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival	Price	Arrival		
ABO HAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AGRA	330	4598	360	3270	390	2760	388	1738	503	1550	530	1120	476	1290	472	950	449	220	-	-	-	-	-	-	-	-	-	
AHMEDABAD	579	8397	514	11723	513	13498	553	8120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AMRITSAR	248	4375	224	4530	277	4100	248	3430	277	1105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	873	160027
BARAUT	514	857	389	816	482	1236	503	556	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BHOPAL	483	3172	413	3183	391	3509	477	3423	538	3832	660	2666	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BHUBANESHWAR	510	2800	403	7850	564	13300	606	12650	731	8050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CHANDIGARH	249	2321	284	2361	354	2323	399	1751	542	1722	659	290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CHENNAI	1318	6390	1128	6360	924	7370	963	5790	978	6600	1058	5670	965	5990	1091	9555	1146	9077	1236	5159	1361	5176	1106	6209	1111	79336	1111	79336
DEHRADUN	337	2239	341	1936	353	1855	330	1493	357	1641	527	1570	771	1834	795	2598	804	1919	749	1906	541	417	306	2374	518	21420	518	21420
DELHI	417	29764	405	27520	456	32566	456	26675	562	24567	796	24021	1110	28844	1236	28562	1275	34732	1311	27800	968	34066	362	39637	780	959054	780	959054
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	1341	1376
GUWAHATI	594	4100	494	3605	619	4040	684	3260	783	4230	839	1130	1140	395	-	-	-	-	-	-	-	-	-	-	-	-	-	
HYDERABAD	785	6336	690	5174	639	9077	545	7904	600	9295	672	14943	802	10593	1016	9468	794	18646	771	8149	770	10322	612	11334	725	121241	725	121241
JAIPUR	445	10854	412	13775	450	17549	474	10337	514	8883	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JALANDHAR	369	4450	361	3996	426	6888	356	5115	378	5243	400	2295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JAMMU	410	2494	371	2296	504	2739	474	2158	526	2086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KARNAL	341	43741	356	22623	464	24646	380	38478	474	6774	500	1132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KANPUR	268	1565	305	1258	400	1282	446	1043	502	464	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KOLKATA	493	7245	393	10936	474	11476	494	12681	570	2407	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LUCKNOW	408	8355	385	5745	473	4417	441	4750	558	3908	673	2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MUMBAI	850	25585	803	22577	816	26593	688	18691	779	23695	733	15767	733	15406	677	21672	630	27658	671	28976	604	31271	498	42143	712	900234	712	900234
NAGPUR	719	2490	571	6860	632	8960	596	7070	670	6490	570	5780	706	2330	-	-	-	-	-	-	-	-	-	-	-	-	-	
NASIK	917	4390	912	3490	713	3810	692	2690	760	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PATNA	507	4800	414	1230	525	900	492	1410	596	1385	604	705	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUNE	957	13178	810	11692	813	8655	952	12857	908	14244	836	12381	881	13366	852	13661	713	14980	838	11238	694	13690	831	150634	831	150634	831	150634
RAIPUR	589	-	484	2521	573	2173	638	1014	666	556	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RANCHI	613	4070	577	4185	647	4152	615	3165	769	3645	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SHIMLA	578	607	476	635	469	779	552	637	538	789	651	618	991	574	1415	469	1505	531	1617	460	1394	1889	776	801	914	8859	914	8859
SRINAGAR	662	2720	684	2080	624	1840	647	1585	722	1605	725	1520	715	1800	686	1420	-	-	-	-	-	-	-	-	-	-	-	
SURAT	690	5373	645	5086	660	5575	670	4968	740	5713	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRIVENDRUM	1818	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	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
Orissa	Bhuban Sankar, Gouri
Tamil Nadu	Co 1, Co 2, Co 3, H 41,
Kerala	H 41, Sree Nandini, Sree Vardhini
Karnataka	H 41, H 42,, Rajendra Sakarkand 5, Rajandra Sakarkand 47
Maharashtra	H 42, Rajandra Sakarkand 35, Varsha
Andhra Pradesh	Kiran, Samrat
Bihar	Rajendra Sakarkand 5, Rajendra Sakarkand 35, Rajendra Sakarkand 47
West Bengal	Rajendra Sakarkand 5, Rajendra Sakarkand 35, Rajendera Sakarkand 43.
Assam	Rajendra Sakarkand 35 , Rajendra Sakarkand 43
Uttar Pradesh	VL Sakarkand 6.

POST HARVEST MANAGEMENT :

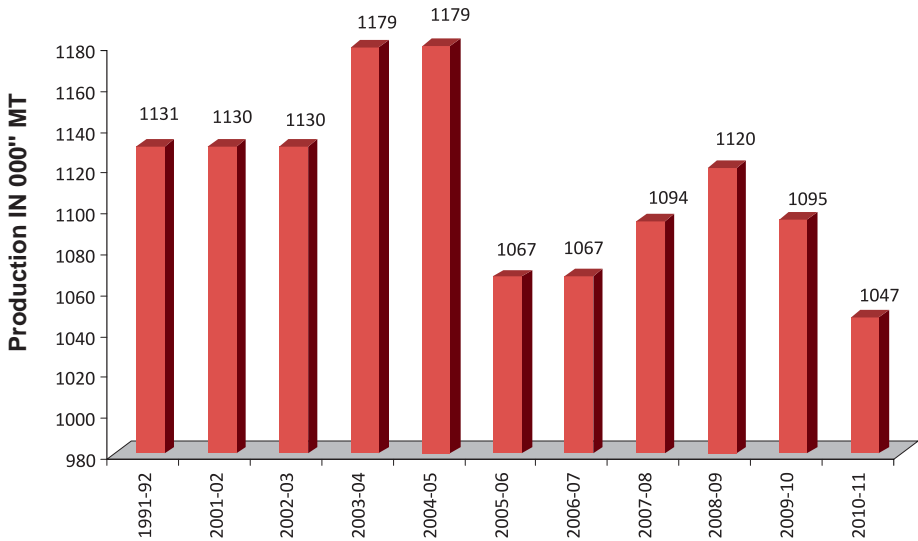
After harvest, tubers are spread in partial shade for 5-6 days, for healing and curing. They should be stored in semi-dark condition in a well-ventilated room. this types of storage invites infestation of pest and diseases. In some part of the country, tubers are stored in a layer of dry sand/soil after 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



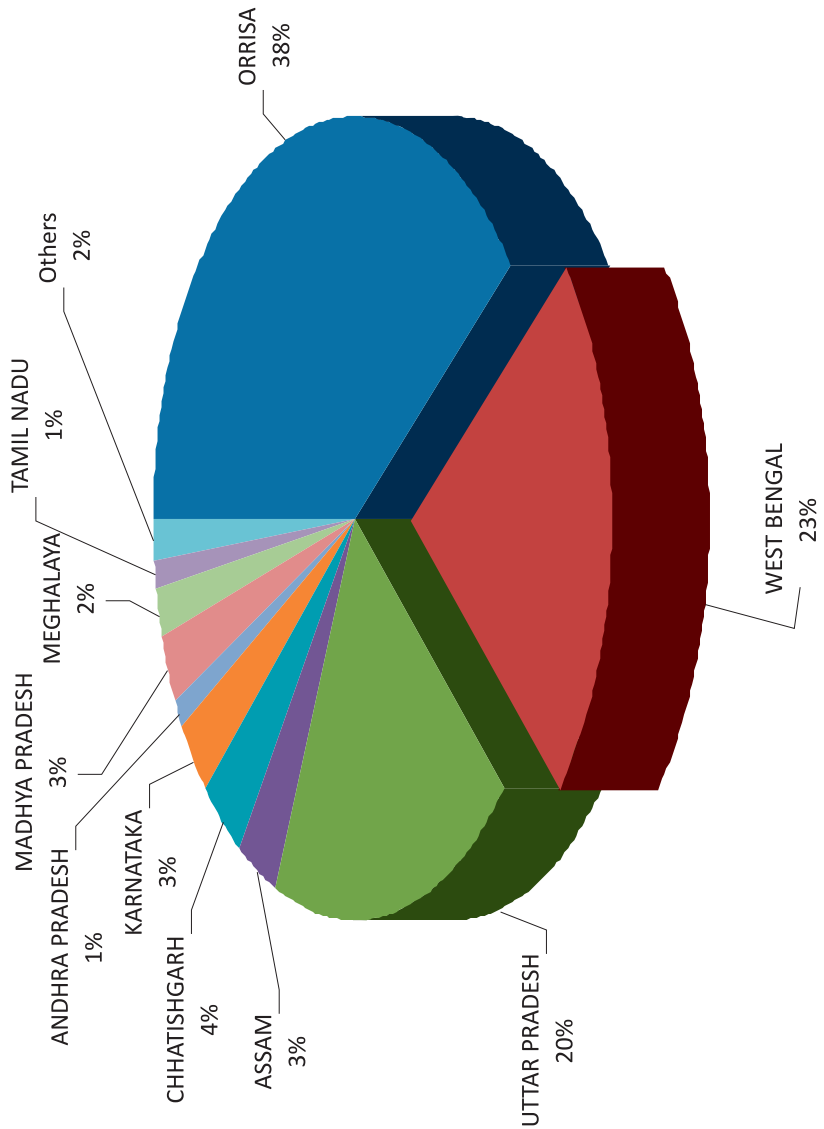
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF SWEET POTATO



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.
ORISSA	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
TOTAL	124.3	1119.7	9.0	118.9	1094.7	9.2	113.2	1046.6	9.2



Leading Sweet Potato Producing States (2010-11)



TAPIOCA

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

Major Producing States : 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 Visakhham.

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.

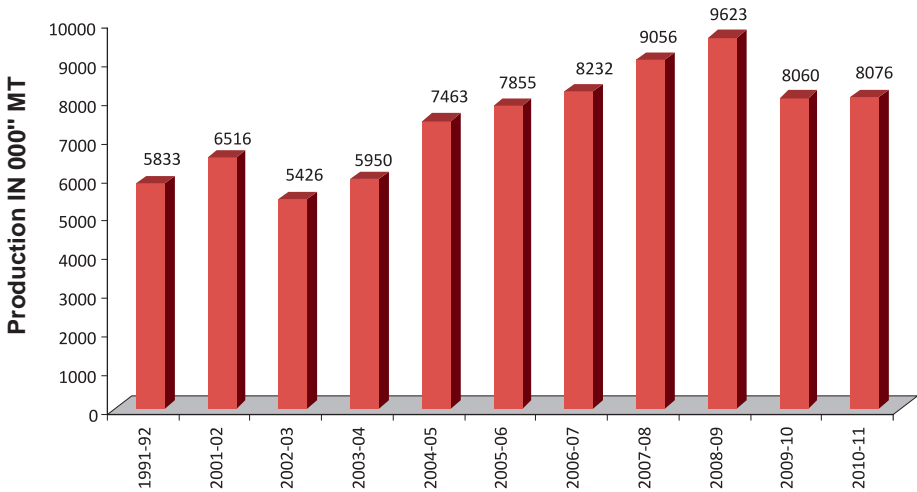
About 70% of the total cassava production is used as food either directly or in processed form. 'Parboiled chips' is a method of processing cassava tuber for storage. These chips are harder than the lain sundried chips due to the partial gelatinization. They can be stored for a longer period than sun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



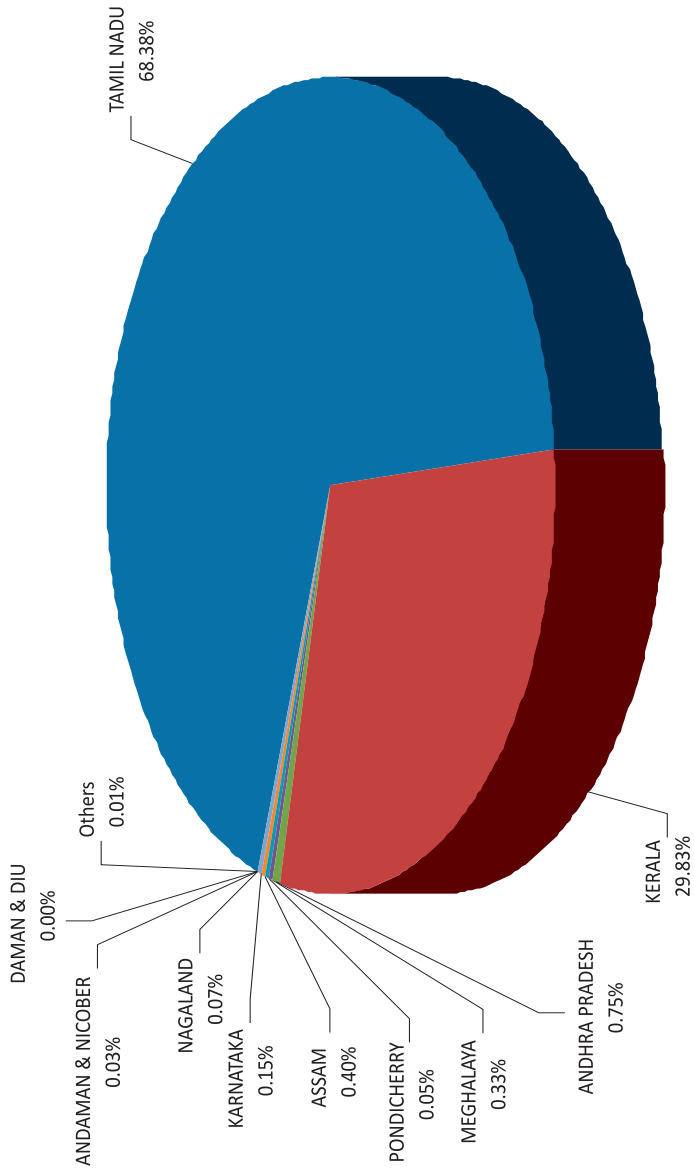
STATEWISE AREA, PRODUCTION AND PRODUCTIVITY OF TAPIOCA



State	AREA IN 000' HA		PRODUCTION IN 000' MT		PRODUCTIVITY HA/MT				
	2008-09		2009-10		2010-11				
	Area	Production	Pdy.	Area	Production	Pdy.			
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
TOTAL	280.2	9623.0	34.35	231.9	8059.8	34.8	221.4	8076.0	36.5



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 Tonens

Main Varieties (Released Arecanut varieties and recommended area)

Variety	Recommended for Area
Mangala	Coastal Kerala and Karnataka
Sumangala	Coastal Kerala and Karnataka
Sree Mangala	Karnataka and Kerala
Mohitnagar	Northern parts of West Bengal, coastal Karnataka and Kerala
CAL 7	Andaman and Nicobar Islands
SAS 1	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 kotpak, 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.

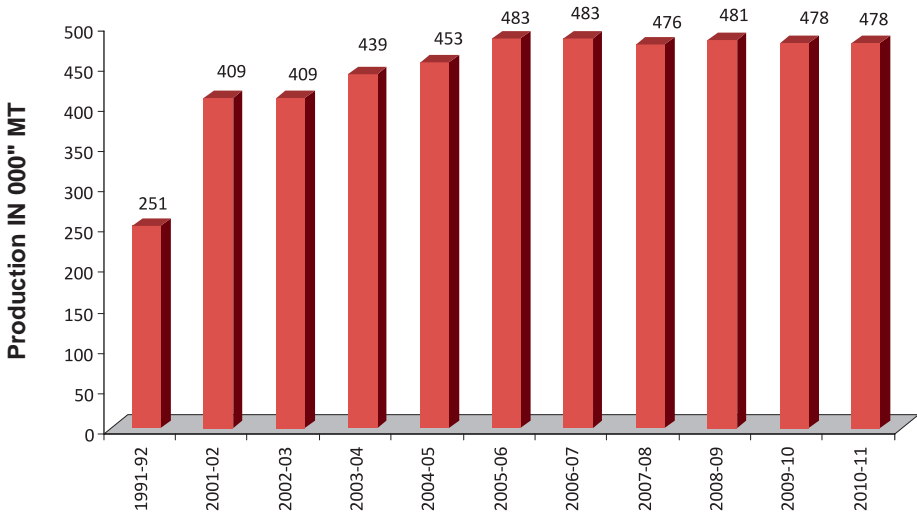
Scented supari, popular in north and central India, is of two types. The first is made from chali and the other from kalipak. Chali and ripe arecanut which leave a large fibrous residue in the mouth are used along with betel leaf and slaked lime.



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

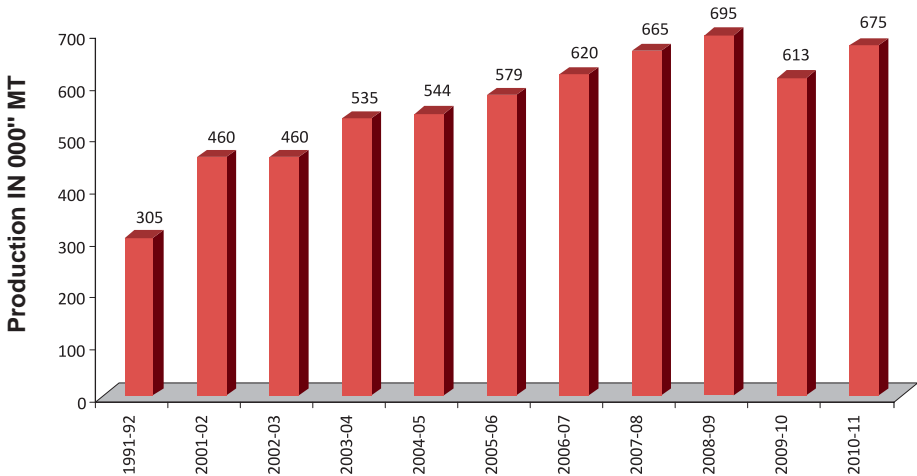
However, if cashew apples are used for processing, it is better to harvest them from the without damaging the apples. The mature nuts sink in water while the immature/unfilled once float. This test could be used to find out whether the nuts are mature or not. The nuts should be collected at weekly interval 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.

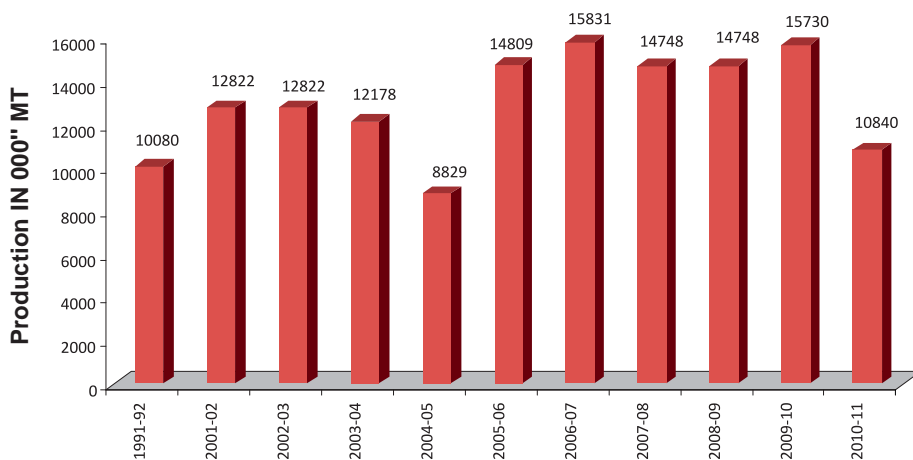


ALL INDIA AREA, PRODUCTION AND PRODUCTIVITY OF COCONUT

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. afterfermentation 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
Total Cultivation of Noni in India		348	653

Noni : *Morinda Citrifolia* L.

Source: World Noni Research Foundation

