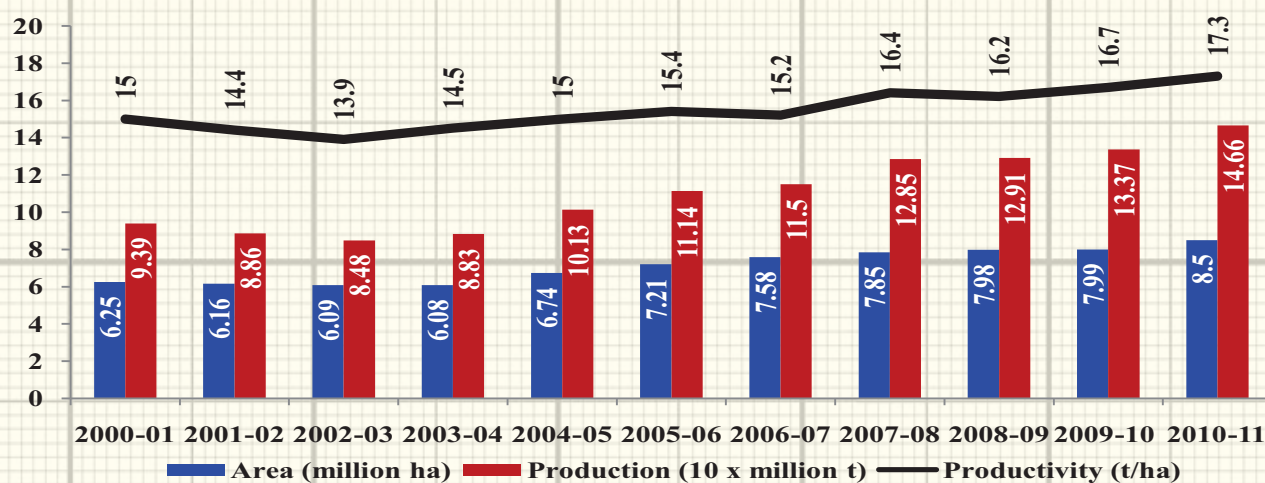


Vegetable Statistics

Vegetable production in India (2000 -2001 to 2010-2011)



Indian Institute of Vegetable Research
(Indian Council of Agricultural Research)
 Varanasi - 221 305 (Uttar Pradesh)

Technical Bulletin No. 51

Vegetable Statistics

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Foreword



Vegetables are important constituents of Indian agriculture and nutritional security due to their short duration, high yield, nutritional richness, economic viability and ability to generate on-farm and off-farm employment. Increasing per capita income, health consciousness, urbanization, increasing working women, shifting of farmers to high value vegetables due to higher income, favourable income elasticity of demand and annual growth rate for vegetables are also important ingredients for fuelling vegetable growth in the country.

Though India is the second largest producer of vegetables in the world, non-availability of statistical data for many crops at one place is a major bottleneck in critical analysis of issues and policy planning. I appreciate the efforts made by the Indian Institute of Vegetable Research, Varanasi to compile important vegetable data from different sources in this document. In addition to the general information on Indian agriculture/horticulture, the compilation includes detailed vegetable statistics on area, production, productivity, and trade of major vegetable crops in India and world.

The panel data compiled from different sources and documented in this bulletin entitled "*Vegetable Statistics*" will be of immense use for the researchers, policy makers, students and entrepreneurs.

A handwritten signature in black ink, appearing to read 'N.K. Krishna Kumar'.

(N.K. Krishna Kumar)

Deputy Director General (Horticulture)
Indian Council of Agricultural Research
New Delhi

Preface

Horticulture is the fastest growing sector within Indian agriculture. There has been a perceptible change in the consumption pattern characterized by declining share of food grains and increasing share of non-food grain items in the consumption baskets particularly fruits and vegetables. Consequently, horticulture is set to assume a greater role and importance within the agriculture sector and eventually in the national economy. However, there is a serious problem concerning reliability of horticulture data which is one of the most critical requirements to facilitate systematic policy analysis and planning exercise. Multiple agencies are involved in producing horticultural data that often varies. This may perhaps be due to the complexities and methodologies of data collection in horticultural crops. It is not just the basic data like area, production or productivity but the whole gamut of related data like storage infrastructure, market arrivals, prices, exports *etc* is required to be collected and compiled to develop integrated data base which is extremely important in the present era of globalization and integration of markets.

An attempt has been made in this bulletin to compile available statistics on vegetables grown in India and other countries in order to provide all information at one place. In addition to the latest available statistics on major vegetable crops from different sources, general information on Indian economy, agriculture and key indicators has also been included. The bulletin has been divided into 5 sections namely an overview, general information on Indian economy & agriculture, horticultural scenario, vegetable statistics at a glance and crop-wise vegetable statistics. We believe that the information compiled and presented in this bulletin could be of immense interest and use to various stakeholders.

Information obtained/compiled from various organizations and sources is duly acknowledged. We express our sincere thanks to Dr. V. K. Bhatia, Director, IASRI, New Delhi for sharing the available data and his valuable guidance.

S.M. Vanitha, S.N.S. Chaurasia, P.M. Singh and Prakash S. Naik

Abbreviations

-	Nil	MP	Madhya Pradesh
%	Per cent	MT	Million tonnes
'000	Thousand	NHB	National Horticulture Board
A	Area	NHM	National Horticulture Mission
AE	Advance estimates	PE	Provisional estimates
A&N	Andaman & Nicobar	PPP	Purchasing power parity
ACGR	Annual compound growth rate	Pr	Production
AEZ	Agri Export Zone	K Cal	Kilocalories
Ar	Arrival	kg	Kilogram
BRICS	Brazil, Russia, India, China, South Africa	km	Kilometer
CAB	Current account balance	MHa	Million hectares
CPI	Consumer price index	MoA	Ministry of Agriculture
DAP	Diammonium phosphate	MOP	Muriate of potash
DES	Directorate of Economics and Statistics	MP	Madhya Pradesh
DMI	Directorate of Market Intelligence	MT	Million tonnes
EU	European Union	NHB	National Horticulture Board
FAO	Food and Agriculture Organization	NHM	National Horticulture Mission
G	Gram	PE	Provisional estimates
GCF	Gross capital formation	PPP	Purchasing power parity
GDP	Gross domestic product	Pr	Production
GOI	Government of India	Q	Quintal
GSDP	Gross state domestic product	QE	Quick estimates
ha	Hectares	Qty	Quantity
HP	Himachal Pradesh	T	Tonnes
IASRI	Indian Agricultural Statistics Research Institute	TN	Tamil Nadu
Py	Productivity	UK	United kingdom
ICAR	Indian council of Agricultural Research	UP	Uttar Pradesh
J&K	Jammu & Kashmir	US	United states
K Cal	Kilo calories	US \$	US dollar
kg	Kilogram	UTs	Union Territories
km	Kilo meter	WB	West Bengal
MHa	Million hectares	WP	Wholesale price
MoA	Ministry of Agriculture	WPI	Wholesale price index
MOP	Muriate of potash	Y	Yield

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Overview

Vegetables are important constituents of Indian agriculture and nutritional security due to their short duration, high yield, nutritional richness, economic viability and ability to generate on-farm and off-farm employment. Our country is blessed with diverse agro-climates with distinct seasons, making it possible to grow wide array of vegetables. India is the second largest producer of fruits and vegetables in the world. Total area under horticultural crops is 21.83 million ha and production is 240.53 million t. Fruits and vegetables together contribute about 92% of the total horticultural production in the country.

Vegetables are vital sources of proteins, vitamins, minerals, dietary fibers, micronutrients, antioxidants and phytochemicals in our daily diet. Apart from nutrition, they also contain a wide array of potential phyto-chemicals like anti-carcinogenic principles and anti-oxidants (e.g. flavonoids, glucosinolates and isothiocyanates). In India, vegetables are valuable biological assets especially genetic resources. They have been vividly described in the Indian scriptures like 'Vedas' and 'Ramayana'. India is rich in biodiversity of vegetables and is the primary/secondary center of origin of many vegetables.

India produces 14 % (146.55 million tonnes) of world's vegetables on 15 % (8.5 million hectares) of world area under vegetables. Productivity of vegetables in India (17.3t/ha) is less than the world average productivity (18.8t/ha). Potato (28.9%), tomato (11.3%), onion (10.3%) and Brinjal (8.1%) are the 4 major vegetables contributing 58.6% of total vegetable production in our country. Other important vegetables are cabbage (5.4%), cauliflower (4.6%), okra (3.9%) and peas (2.4%) (Figure-1). India ranks first in the production of okra in the world (73% of world production).

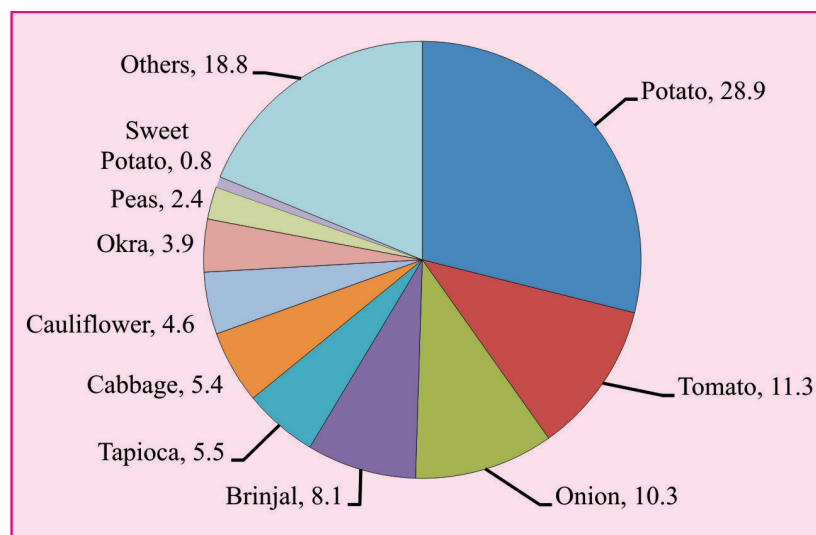


Figure 1: Percent share of different vegetables in total vegetable production in India

The country has witnessed tremendous progress in vegetable production, especially during the post green revolution period. Development of improved vegetable varieties/hybrids/ technologies through systematic research coupled with their adoption by the farmers and developmental policies of the government culminated in tremendous increase in area under vegetables (8.5 million ha), production (146.5 million t) and productivity (17.3 t/ha) in the country. Compared to area (2.84 million ha), production (16.5 million t) and productivity (5.8 t/ha) in 1950-1951, there had been phenomenal increase in area (2.99 folds), production (8.88 folds) and productivity (2.98 folds) of vegetables in our country during the last 6 decades. The per capita availability of vegetables is also on the increase (Figure-2). Increasing per capita income, health consciousness, urbanization, increasing working women, shifting of farmers to high value vegetables due to higher income (Figure-3), favourable income elasticity of demand and annual growth rate for domestic demand for fruits & vegetables (Figure-4) are also important ingredients for fuelling vegetable growth in the country.

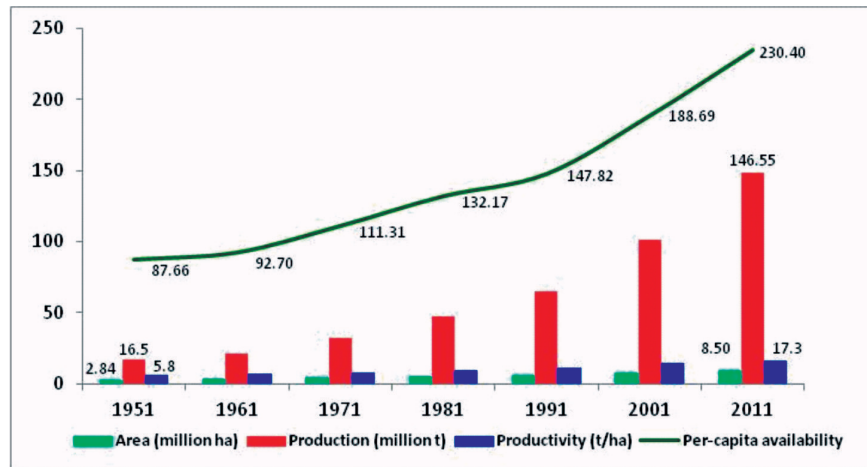


Figure 2: Increasing trends for area, production, productivity and per capita availability/consumption (g/person/day) of vegetables in India

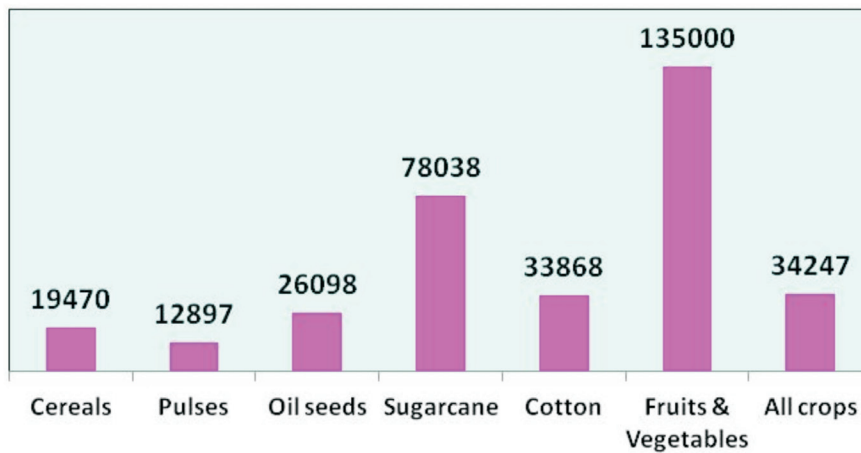


Figure 3: Productivity values (₹/ha) of different crops

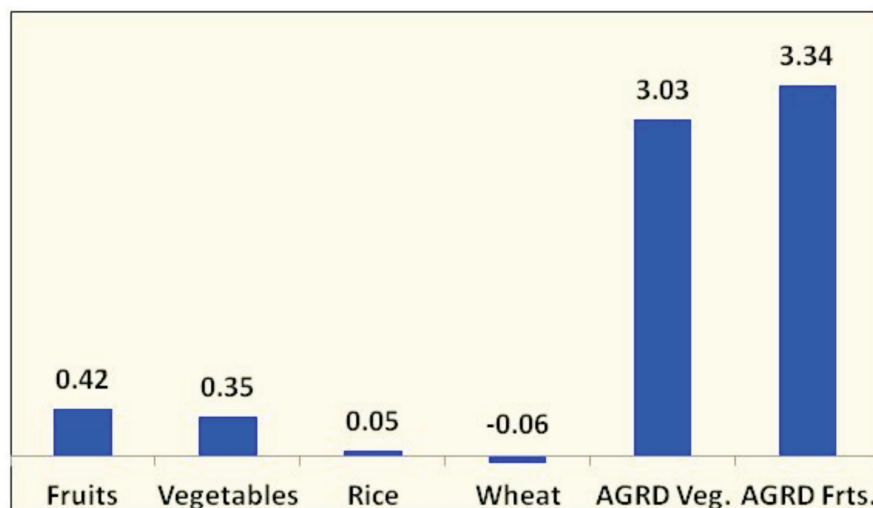


Figure 4: Income elasticity of demand and annual growth rate for domestic demand (AGRDR) for fruits & vegetables

Major vegetable producing countries of the world during 2010-2011 were: China [473.06 million t (48% world production)]; India [146.55 million t (14% world production)]; USA [35.29 million t (3% world production)]; Turkey [25.83 million t (2.2% world production)]; and Egypt [19.51 million t (2% world production)]. India with vegetable production of 146.55 million t is the second largest producer of vegetables contributing 14% of world's vegetable production. With an area of 8.5 million hectares under vegetables, the average productivity of vegetables in India is 17.3 t/ha in 2010-11. Productivity of vegetables in India is seen to be lower than Spain (37.2 t/ha) and world average (18.8 t/ha). India ranks first in production of okra in the world (73% of world production) and second in other vegetables such as brinjal (27.55%), cabbage (13%), cauliflower & broccoli (36%), onion (19.90%), potato (13%) and tomato (11%). Productivities of different vegetables in India and global ranking of India for area, production and productivity in world during 2010-2011 are given in tables 1 and 2.

Table 1: Productivities of different vegetables in India and world (2010-2011)

Vegetable	Highest productivity	Productivity in India	Average world productivity
Brinjal	Egypt (49.2 t/ha)	17.5 t/ha	25 t/ha
Cabbage	Japan (66 t/ha)	21.5 t/ha	27.7 t/ha
Cauliflower & broccoli	Pakistan (24.8 t/ha)	18.3 t/ha	16.9 t/ha
Okra	Saudi Arabia (13.3 t/ha)	11.6 t/ha	6.9 t/ha
Onion	Turkey (30.3 t/ha)	14.2 t/ha	19.1 t/ha
Potato	USA (44.3 t/ha)	22.7 t/ha	17.7 t/ha
Tomato	Spain (74 t/ha)	19.1 t/ha	32.8 t/ha

Table 2: India’s global ranking for area, production and productivity of vegetables (2010-2011)

Vegetable	Area	Production	Productivity
Brinjal	2	2	8
Cabbage	2	2	8
Cauliflower & Broccoli	2	2	5
Okra	2	1	4
Onion	1	2	7
Potato	3	2	4
Tomato	2	2	11
All vegetables	2	2	10

The major vegetable growing states in India are West Bengal, Uttar Pradesh, Bihar, Andhra Pradesh, Gujarat, Karnataka and Tamil Nadu (Figure-5 and 6). There had been uneven growth of vegetables across the country with wide variations in vegetable productivities in different states. Vegetable productivity ranges for different states are given in table-3.

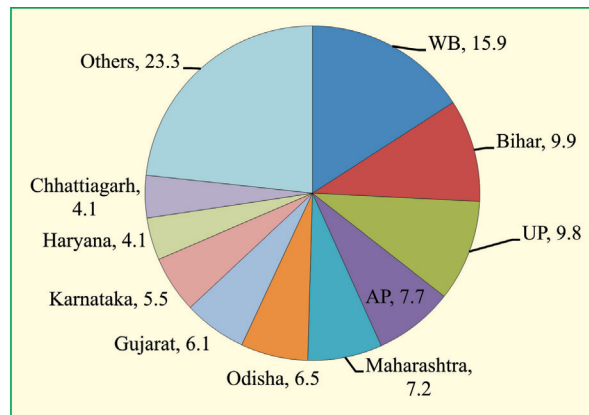


Figure 5: Percentage share of different states for area under vegetables in India

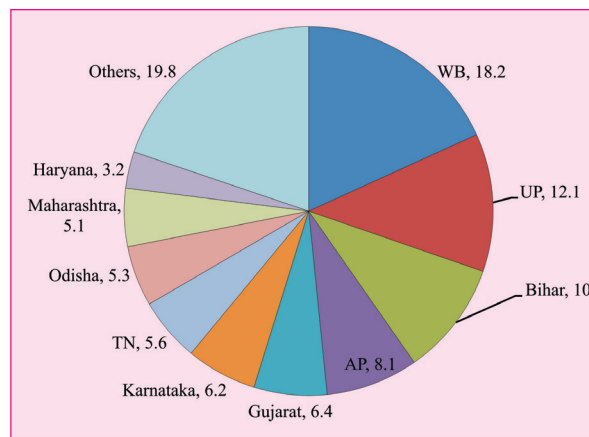


Figure 6: Percentage share of different states in vegetable production in India

Table 3: Uneven development of vegetable productivity across different states

Vegetable productivity	States
25-30 t/ha	Tamil Nadu
20-25 t/ha	Kerala, J&K, UP, Punjab
15-20 t/ha	Karnataka, West Bengal, HP, AP, Gujarat, Bihar, Delhi, Jharkhand
10-15 t/ha	Tripura, Odisha, Haryana, MP, Chhattisgarh, Maharashtra, Uttarakhand, Assam, Manipur, Goa
Less than 10 t/ha	Arunachal Pradesh, Meghalaya, Nagaland, Mizoram, Rajasthan, Sikkim

Horticulture also plays an important role in national economy. Horticulture accounts for about 20% of India's agricultural GDP from 13.08% of cropped area. The sector has received focused attentions in country's five-year plans mainly from the VII plan period. According to a World Bank report (2005) entitled as "From Competition At Home to Competing Abroad: A Case Study of India's Horticulture", India is a large, low cost agricultural producer; however, its share in global agricultural exports is minuscule. During 2001-2003, India produced nearly 11 per cent of all the world's vegetables and 15 per cent of all fruits, yet its share in global exports of vegetables was only 1.7 per cent and in fruits a meagre 0.5 per cent indicating vast opportunity for Indian horticulture sector in WTO regime.

Total vegetable exports from India was accounted for ₹2706.97 crores in 2010-11, sharing 2.25% of total agricultural exports and 0.23% of total national exports during the period. The quantities and value of exported vegetables are given table-4. Major importers of our vegetables are UAE, Nepal, Sri Lanka, UK and Saudi Arabia accounting for around 55% of the total vegetable exports from India. Though India is second largest producer of vegetables in the world it ranks 24th in the export value of vegetables. Top ranking vegetable exporters in the world are the Netherlands followed by Spain, Mexico, China and France. However, Indian export is suffering from non-harmonization of international quality standards, inadequacies of export infrastructure and export friendly policies. Rejection of Indian horticultural consignments due to standards gap

Table 4: Export of vegetables and vegetable products from India (2010-2011)

Commodity	Quantity (t)	Value (₹ In Lakhs)
Cabbage	405	45.6
Cauliflower	830	33.2
Onion	1163473	174155
Peas	1005	264
Tomato	68184	11481
Potato	184277	15424
Sweet potato	769	77.3
Fruit and vegetable seeds	11182	17520
Dried and preserved vegetables	110174	51697
Total	1540299	270697.1

had been a common feature. Owing to awareness among exporters and quality control initiatives by the government, such rejections are reducing in recent years.

During the last one decade it has been noticed that among all horticultural crops there has been higher increase in productivities of vegetable crops (Figure7). This increase in productivity is in spite of the fact that plan schemes did not have substantial components supporting development of this crop segment. If India has to achieve 4% agricultural growth rate, the required growth rate in horticulture has to be 6-7%. Seasonal and annual crops like vegetables can contribute to rapid growth in initial period itself which can later on be supplemented by perennial fruit and plantation crops.

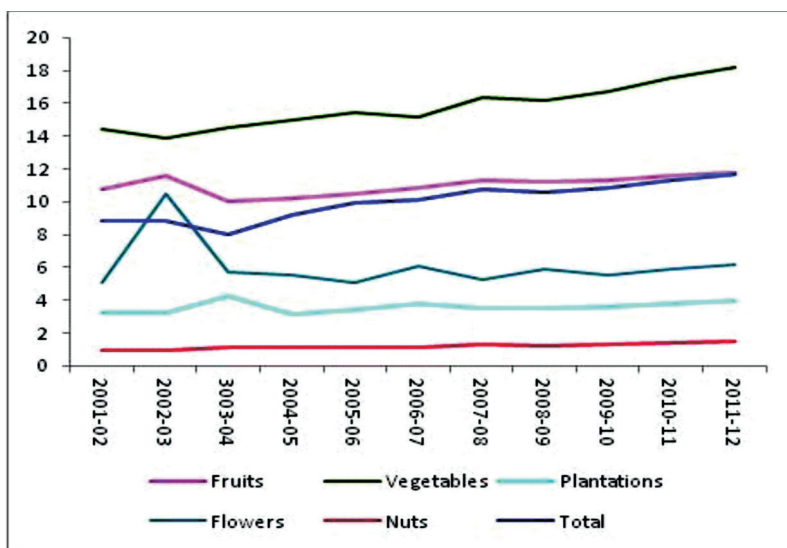


Figure 7: Productivities of horticultural crops (2001-2002 to 2011-2012)

With current level of vegetable production in the country (146.55 million t), population (1210 million) and considering 25% post harvest losses and 5% export and processing, per capita consumption of vegetables in our country is 230 g as against 300 g recommended dietary allowance (RDA). Thus, now also we have shortage of about 30 million t of vegetables. With projected population of 1330 million in 2020, 1460 million in 2030, 1570 million in 2040 and 1650 million in 2050, we have to produce 190, 210, 225 and 240 million t of vegetables by respective years. With increasing trends in processing and export, the production targets are likely to further increase.

Section-I

General Information on Indian Economy and Agriculture

Table 1.1: Key indicators of Indian economy

Particulars	Units	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
Gross Domestic Product (GDP at Current Market Prices)	₹ 000' Crore	4294.7	4987.1	5630.1	6457.4PE	7674.1QE	8912.2AE
Growth Rate	%	16.3	16.1	12.9	14.7	18.8	16.1
GDP Factor Cost at 2004-05 Prices	₹ 000' Crore	3564.4	3896.6	4158.7	4507.6PE	4886.0QE	5222.0AE
Growth Rate	%	9.6	9.3	6.7	8.4	8.4	6.9
Savings Rate	% of GDP	34.6	36.8	32.0	33.8	32.3	NA
Capital Formation Rate	% of GDP	35.7	38.1	34.3	36.6	35.1	NA
Per Capita Net National Income (Factor Cost at Current Prices)	₹	31206	35825	40775	46117	53331	60972
Food Grains Production	Million Tonnes	217.3	230.8	234.5	218.1	244.8	250.4
Inflation (WPI)	% Change	6.6	4.7	8.1	3.8	9.6	9.1
Inflation (CPI)	% Change	6.7	6.2	9.1	12.4	10.4	8.4
Export Growth (US\$)	% Change	22.6	29.0	13.6	-3.5	40.5	23.5
Import Growth (US\$)	% Change	24.5	35.5	20.7	-5.0	28.2	29.4
Current Account Balance CAB/GDP	%	-1.0	-1.3	-2.3	-2.8	-2.7	-3.6
Foreign Exchange Reserves	US\$ Billion	199.2	309.7	252.0	279.1	304.8	292.8
Average Exchange Rate	₹/US\$	45.25	40.26	45.99	47.44	45.56	47.70
Population	Million	1122	1138	1154	1170	1210	NA

Note: PE-Provisional estimates, QE-Quick estimates, AE- Advance estimates, NA-Not available

(Source: Economic Survey 2011-12)

Table 1.2: Key census statistics of India

Items	Unit	1971	1981	1991	2001	2011
Population	Million	548	683	846	1027	1192
Density	Per km ²	177	216	267	324	363
Persons Per Household	No.	5.46	5.55	8.51	5.35	4.80
Districts	No.	360	412	466	593	640
Towns	No.	2590	3378	3768	5545	8410
Villages	'000	576	557	588	639	641
Rural Population	Million	439	524	629	742	833
Urban Population	Million	109	159	217	285	377

Contd...

Items	Unit	1971	1981	1991	2001	2011
Urban as % of total	%	19.9	23.3	25.7	27.8	31.2
Male Population	Million	284	353	438	531	617
Female population	Million	264	330	406	496	575
Female per 000' males	No.	930	934	929	933	940
Workers	Million	181	242	307	313	384
Male	Million	145	179	218	240	NA
Female	Million	36	63	89	72	NA
Birth rate	Per 1000	41.2	37.2	32.5	26.1	20.97
Death rate	Per 1000	19.0	15.0	11.4	8.7	7.48
Expectation of life at birth	Years	45.6	50.5	58.2	61.1	66.8
Male	Years	46.4	50.9	57.7	60.4	65.77
Female	Years	44.7	50.0	58.7	61.8	67.95
Literacy rate	%	34.5	43.6	52.1	65.4	74.04
Male	%	46.0	56.4	63.9	75.6	82.14
Female	%	22.0	29.8	39.4	54.2	65.46

(Source: Agricultural Statistics at a Glance, 2011, DES, MoA, GOI)

Table 1.3: Sectoral composition of GDP (%)

Year	Agriculture	Industry	Services
1950-51	53.1	16.6	30.3
1960-61	48.7	20.5	30.8
1970-71	42.3	24.0	33.8
1980-81	36.1	25.9	38.0
1990-91	29.6	27.7	42.7
2000-01	22.3	27.3	50.4
2010-11QE	14.5	27.8	57.7
2011-12AE	13.9	27.0	59.0

Note: QE-Quick estimates, AE-Advance estimates

(Source: Economic Survey 2011-12)

Table 1.4: India's percent share in world GDP

Year	Advanced Economies	US	EU	UK	Germany	Japan	B	R	I	C	S
(Current prices)											
1980	76.2	26.0	34.1	5.1	7.7	10.0	1.5		1.7	1.9	0.8
1990	79.7	26.1	31.7	4.6	7.0	13.8	2.3		1.5	1.8	0.5
2000	79.7	30.9	26.4	4.6	5.9	14.5	2.0	0.8	1.5	3.7	0.4
2005	76.1	27.7	30.2	5.0	6.1	10.0	2.0	1.7	1.8	5.0	0.5
2010	65.8	23.1	25.8	3.6	5.2	8.7	3.3	2.4	2.6	9.3	0.6
(PPP basis)											
1980	69.0	24.6	31.4	4.3	6.7	8.6	3.9		2.5	2.2	1.0
1990	69.2	24.7	28.7	4.1	6.2	9.9	3.3		3.2	3.9	0.9
2000	62.8	23.5	25.0	3.6	5.1	7.6	2.9	2.7	3.7	7.1	0.7
2005	58.6	22.3	23.0	3.4	4.4	6.8	2.8	3.0	4.3	9.5	0.7
2010	52.1	19.5	20.4	2.9	4.0	5.8	2.9	3.0	5.5	13.6	0.7

PPP:- Purchasing Power Parity, BRICS:- Brazil, Russia, India, China and South-Africa

(Source: Economic Survey 2011-12)

Table 1.5: State wise statistics of India-2011

State/UT	Area (km ²)	% of total area	Population (Million)	% of total population	Density of population	Sex ratio	GSDP (₹ Billion)	% of total GDP	Per capita income (₹)
Maharashtra	307713	9.36	112.37	9.29	365	946	10296.21	14.09	83,471
Uttar Pradesh	240928	7.33	199.58	16.49	828	908	5884.67	8.05	26,051
Andhra Pradesh	275069	8.37	84.67	7.00	308	992	5676.36	7.77	60,458
Tamil Nadu	130058	3.96	72.14	5.96	555	995	5472.67	7.49	72,993
Gujarat	196024	5.96	60.38	4.99	308	918	4817.66	6.59	63,961
West Bengal	88752	2.70	91.35	7.55	1029	947	4436.44	6.07	41,469
Karnataka	191791	5.83	61.13	5.05	319	968	3988.93	5.46	59,763
Rajasthan	342240	10.41	68.62	5.67	201	926	3033.58	4.15	39,967
Kerala	38863	1.18	33.39	2.76	859	1084	2681.83	3.67	59,179
Haryana	44212	1.34	25.35	2.09	573	877	2577.93	3.53	92,327
Madhya Pradesh	308144	9.37	72.60	6.00	236	930	2402.39	3.29	27,250
Punjab	50362	1.53	27.70	2.29	550	893	2213.32	3.03	67,473
Bihar	94163	2.86	103.80	8.58	1102	916	2130.73	2.92	20,069
Odisha	155707	4.74	41.95	3.47	269	978	1863.56	2.55	36,923
Chhattisgarh	136034	4.14	25.54	2.11	189	963	1297.18	1.78	44,097
Jharkhand	79714	2.42	32.97	2.72	414	947	1066.96	1.46	29,786
Assam	78438	2.39	31.17	2.58	397	954	1042.18	1.43	30,413
Uttarakhand	53484	1.63	10.12	0.84	189	963	775.8	1.06	68,292
Himachal Pradesh	55673	1.69	6.86	0.57	123	974	524.26	0.72	58,493
Jammu & Kashmir	222236	6.76	12.55	1.04	56	883	477.09	0.65	33,056
Goa	3702	0.11	1.46	0.12	394	968	298.73	0.41	132,719
Tripura	10493	0.32	3.67	0.30	350	961	163.28	0.22	38,493
Meghalaya	22429	0.68	2.96	0.24	132	986	146.45	0.20	48,383
Nagaland	16579	0.50	1.98	0.16	119	931	109.33	0.15	21,434
Manipur	22327	0.68	2.72	0.22	122	987	91.98	0.13	29,684
Arunachal Pradesh	83743	2.55	1.38	0.11	17	920	72.63	0.10	51,644
Mizoram	21081	0.64	1.09	0.09	52	975	61.79	0.08	45,982
Sikkim	7096	0.22	0.61	0.05	86	889	56.52	0.08	48,937
Delhi	1483	0.05	16.75	1.38	9340	866	2588.08	3.54	116,886
Chandigarh	114	0.00	1.05	0.09	9252	818	207.04	0.28	120,912
Puducherry	479	0.01	1.24	0.10	2598	1038	129.29	0.18	82,767
A & N Island	8249	0.25	0.38	0.03	46	878	43.23	0.06	74,340
Dadar & N. Haveli	491	0.01	0.34	0.03	698	775	19.84	0.03	51,364
Diu and Daman	112	0.003	0.24	0.02	2169	618	12.2	0.02	39,970
Lakshadweep	32	0.001	0.06	0.005	2013	946	4.42	0.01	51,320
India	3287240	100	1210	100	382	940	66664.56	0.91	1970326

(Source: Agricultural Statistics at a Glance 2011; DES, MoA, GOI; and Economic Survey 2011-2012)

Table 1.6: Gross domestic product from agriculture and allied sector and its percentage share to total GDP (1954-55 to 2011-12). (GDP at 1999-00 prices upto 2003-04 and 2004-05 prices upto 2011-12)

Year	GDP total (₹ crores)	GDP from agriculture & allied sector (₹ crores)	% share of agriculture & allied sector to total GDP	Growth rate of agricultural GDP
1954-55	261615	143791	54.96	-
1955-56	268316	142549	53.13	-0.86
1956-57	283589	150298	53.00	5.44
1960-61	329825	166954	50.62	11.08
1961-62	340060	167095	49.14	0.08
1962-63	347253	163771	47.16	-1.99
1963-64	364834	167602	45.94	2.34
1964-65	392503	183062	46.64	9.22
1965-66	378157	162848	43.06	-11.04
1966-67	382006	160532	42.02	-1.42
1967-68	413094	184404	44.64	14.87
1968-69	423874	184112	43.44	-0.16
1969-70	451496	195946	43.40	6.43
1970-71	474131	209843	44.26	7.09
1971-72	478918	205903	42.99	-1.88
1972-73	477392	195570	40.97	-5.02
1973-74	499120	209655	42.00	7.20
1974-75	504914	206461	40.89	-1.52
1975-76	550379	233074	42.35	12.89
1976-77	557258	219606	39.41	-5.78
1977-78	598885	241646	40.35	10.04
1978-79	631839	247210	39.13	2.30
1979-80	598974	215630	36.00	-12.77
1980-81	641921	243421	37.92	12.89
1981-82	678033	254622	37.55	4.60
1982-83	697861	253907	36.38	-0.28
1983-84	752669	279605	37.15	10.12
1984-85	782484	284037	36.30	1.59
1985-86	815049	284930	34.96	0.31
1986-87	850217	283763	33.38	-0.41
1987-88	880267	279257	31.72	-1.59
1988-89	969702	322932	33.30	15.64
1989-90	1029178	326773	31.75	1.19
1990-91	1083572	339893	31.37	4.02
1991-92	1099072	333256	30.32	-1.95
1992-93	1158025	355421	30.69	6.65
1993-94	1223816	367231	30.01	3.32
1994-95	1302076	384549	29.53	4.72
1995-96	1396974	381875	27.34	-0.70
1996-97	1508378	419759	27.83	9.92
1997-98	1573263	409039	26.00	-2.55
1998-99	1678410	434892	25.91	6.32
1999-00	1786526	446515	24.99	2.67
Contd...				

Year	GDP total (₹ crores)	GDP from agriculture & allied sector (₹ crores)	% share of agriculture & allied sector to total GDP	Growth rate of agricultural GDP
2000-01	1864300	445403	23.89	-0.25
2001-02	1972605	473248	23.99	6.25
2002-03	2048287	438966	21.43	-7.24
2003-04	2222759	482677	21.72	9.96
2004-05	2971464	565426	19.03	-
2005-06	3253073	594487	18.27	5.14
2006-07	3564364	619190	17.37	4.16
2007-08	3896636	655080	16.81	5.80
2008-09	4158676	655689	15.77	0.09
2009-10	4507637	662509	14.70	1.04
2010-11	4885954	709103	14.51	7.03
2011-12	5222027	727161	13.92	2.55

(Source: <http://planningcommission.gov.in>)

Table 1.7: Continent-wise agricultural and rural population in the world

Region	Total population ('000)		Agricultural population (% of total)		Rural population (% of total)	
	2000	2010	2000	2010	2000	2010
Africa	811099	1022237	55.10	50.22	64.09	59.99
America	834718	934610	13.59	10.59	23.14	19.47
Asia	3719042	4164252	52.57	46.97	63.26	57.76
Australia	23022	26636	5.29	4.52	13.09	11.37
Europe	726780	738197	8.48	5.89	29.20	27.22
North America	313288	344529	2.25	1.68	20.87	17.88
South America	347433	392556	17.40	13.12	20.33	16.05
Developed Countries	662705	833145	69.73	64.50	75.36	70.81
Developing Countries	331296	410365	65.47	62.84	73.79	71.90
World	6122769	6895888	42.20	37.98	53.69	49.48

(Source: www.faostat.fao.org)

Table 1.8: Rural population and agricultural workers

Year	Total population (Million)	Average annual exponential growth rate (%)	Rural population (Million)	Agricultural workers (Million)		Total agricultural workers (Million)
				Cultivators	Agricultural labourers	
1951	361.1	1.25	298.6 (82.7)*	69.9 (71.9)	27.3 (28.1)	97.2
1961	439.2	1.96	360.3 (82.0)	99.6 (76.0)	31.5 (24.0)	131.1
1971	548.2	2.20	439.0 (80.1)	78.2 (62.2)	47.5 (37.8)	125.7
1981	683.3	2.22	523.9 (76.7)	92.5 (62.5)	55.5 (37.5)	148.0
1991	846.4	2.16	628.9 (74.3)	110.7 (59.7)	74.6 (40.3)	185.3
2001	1028.7	1.97	742.6 (72.2)	127.3 (54.4)	106.8 (45.6)	234.1
2011	1210.2	1.64	833.1 (68.8)	N. A.	N. A.	N. A.

(Source: Agricultural Research Data Book, 2011, IASRI)

*Figures in parentheses indicate % of population.

Table 1.9: Land statistics of India

Years	% share to world		Land area		% share to Agricultural-		% share to Arable land		% share to Forest		% share to Inland water		% share to Other land		(000' ha)
	area	area	country area	tural area	country area	land area	country area	country area	country area	country area	country area	country area	country area	country area	
1990	328726	2.44	297319	181040	90.45	162788	49.52	63939	19.45	31407	9.55	52340	15.92		
1991	328726	2.44	297319	181140	90.45	162340	49.38	64084	19.49	31407	9.55	52095	15.85		
1992	328726	2.45	297319	180940	90.45	161970	49.27	64229	19.54	31407	9.55	52150	15.86		
1993	328726	2.45	297319	181038	90.45	162037	49.29	64374	19.58	31407	9.55	51907	15.79		
1994	328726	2.45	297319	181030	90.45	161990	49.28	64519	19.63	31407	9.55	51770	15.75		
1995	328726	2.45	297319	180780	90.45	161750	49.21	64665	19.67	31407	9.55	51875	15.78		
1996	328726	2.45	297319	180881	90.45	161501	49.13	64810	19.72	31407	9.55	51628	15.71		
1997	328726	2.45	297319	180856	90.45	161518	49.13	64955	19.76	31407	9.55	51508	15.67		
1998	328726	2.45	297319	181048	90.45	161534	49.14	65100	19.80	31407	9.55	51171	15.57		
1999	328726	2.45	297319	180950	90.45	161002	48.98	65245	19.85	31407	9.55	51124	15.55		
2000	328726	2.45	297319	182573	90.45	162717	49.50	65390	19.89	31407	9.55	49356	15.01		
2001	328726	2.45	297319	180370	90.45	160288	48.76	65854	20.03	31407	9.55	51095	15.54		
2002	328726	2.45	297319	180037	90.45	159934	48.65	66318	20.17	31407	9.55	50964	15.50		
2003	328726	2.45	297319	180309	90.45	159865	48.63	66781	20.32	31407	9.55	50229	15.28		
2004	328726	2.45	297319	180083	90.45	159450	48.51	67245	20.46	31407	9.55	49991	15.21		
2005	328726	2.45	297319	179858	90.45	159213	48.43	67709	20.60	31407	9.55	49752	15.13		
2006	328726	2.45	297319	179973	90.45	158720	48.28	67854	20.64	31407	9.55	49492	15.06		
2007	328726	2.45	297319	179709	90.45	158104	48.10	67999	20.69	31407	9.55	49611	15.09		
2008	328726	2.44	297319	179708	90.45	158030	48.07	68144	20.73	31407	9.55	49467	15.05		
2009	328726	2.44	297319	179963	90.45	157923	48.04	68289	20.77	31407	9.55	49067	14.93		

(Source: www.faostat.fao.org)

Table 1.10: Land use classification in India (1950-51 to 2009-10)

Year	Net area sown (000' ha)	Total cropped area (000' ha)	Area sown more than once (000' ha)	Agricul. land/ cultivable land (000' ha)	Cultivated land (000' ha)	Cropping intensity (%)
1950-51	118746	131893	13147	189641	129425	111.1
1951-52	119400	133234	13834	180172	133208	111.6
1952-53	123442	137675	14233	181258	136341	111.5
1953-54	126806	142480	15674	180279	138831	112.4
1954-55	127845	144087	16242	181428	139808	112.7
1955-56	129156	147311	18155	180705	140739	114.1
1956-57	130848	149492	18644	181234	142206	114.2
1957-58	129080	145832	16752	181089	141780	113
1958-59	131828	151629	19801	181710	143280	115
1959-60	132939	152824	19885	181221	144864	115
1960-61	133199	152772	19573	179689	144838	114.7
1961-62	135399	156209	20810	180164	146554	115.4
1962-63	136341	156760	20419	180060	147399	115
1963-64	136483	156963	20480	179802	147712	115
1964-65	138120	159229	21109	179921	149276	115.3
1965-66	136198	155276	19078	179685	149382	114
1966-67	137232	157355	20123	180496	150761	114.7
1967-68	139876	163736	23860	180804	151800	117.1
1968-69	137313	159529	22216	180540	151409	116.2
1969-70	138695	162265	23570	180848	151018	117
1970-71	140863	165791	24928	182056	151461	117.7
1971-72	139721	165186	25465	182442	152390	118.2
1972-73	137144	162150	25006	183376	152320	118.2
1973-74	142416	169872	27456	183567	153708	119.3
1974-75	137791	164191	26400	183870	154098	119.2
1975-76	141652	171296	29644	184800	154198	120.9
1976-77	139476	167334	27858	184533	154046	120
1977-78	141953	172232	30279	185422	154981	121.3
1978-79	142981	174802	31821	185736	155451	122.3
1979-80	138903	169589	30686	184812	154601	122.1
1980-81	140288	172630	32342	185156	155114	123.1
1981-82	142120	176750	34630	185170	155485	124.4
1982-83	140813	172748	31935	184864	155630	122.7
1983-84	143211	179560	36349	184983	156519	125.4
1984-85	140901	176330	35429	185222	156259	125.1
1985-86	140901	178464	37563	185127	155795	126.7
1986-87	139578	176405	36827	185253	155818	126.4
1987-88	134085	170738	36653	184898	154997	127.3
1988-89	141891	182277	40386	185142	156214	128.5
1989-90	142339	182269	39930	185211	156033	128.1
1990-91	142999	185742	42743	185177	156702	129.9
1991-92	141632	182242	40610	185000	156304	128.7
1992-93	142645	185618	42973	184875	156833	130.1
1993-94	142419	186595	44176	184734	156795	131
1994-95	142960	188053	45093	184173	156210	131.5
1995-96	142197	187471	45274	183623	156028	131.8

Contd...

Year	Net area sown (000' ha)	Total cropped area (000' ha)	Area sown more than once (000' ha)	Agricul. land/cultivable land (000' ha)	Cultivated land (000' ha)	Cropping intensity (%)
1996-97	142931	189502	46571	184121	156254	132.6
1997-98	141945	189988	48043	183972	156220	133.8
1998-99	142753	191649	48896	184024	156340	134.3
1999-00	141063	188396	47333	183873	156116	133.6
2000-01	141336	185340	44005	183455	156113	131.1
2001-02	140700	188286	47586	183551	156044	133.8
2002-03	132051	174108	42057	183449	154388	131.8
2003-04	140708	189669	48961	183132	155196	134.8
2004-05	140642	191119	50476	182946	155432	135.9
2005-06	141162	192756	51594	182685	155373	136.5
2006-07	139848	192408	52560	182508	155357	137.6
2007-08	141377	195138	53761	182691	155889	138
2008-09	141929	195357	53428	182514	156120	137.6
2009-10	140022	192197	52175	182466	155774	137.3

(Source: www.indiastat.com)

Table 1.11: Area under broad soil groups

Major soil groups	Area (million ha)	% of total geographical area
Red loamy	23.0	7.00
Red sandy	49.0	14.90
Laterite	11.7	3.60
Red & yellow	33.5	10.20
Shallow black	6.5	2.00
Medium black	41.7	12.70
Deep black	16.2	4.90
Mixed red & black	14.8	4.50
Coastal alluvium	6.2	1.90
Coastal sand	1.1	0.30
Deltaic alluvium	7.1	2.20
Alluvial recent	39.0	11.90
Calcareous alluvium	2.2	0.70
Calcareous sierozem	4.9	1.50
Old alluvium	2.8	0.90
Grey brown	8.9	2.70
Desert soils-regosolic	13.4	4.10
Desert soils-lithosolic	8.5	2.60
Tarai	3.1	0.90
Brown hill	12.4	3.80
Sub-mountane	4.7	1.40
Mountain meadow	6.6	2.00
Peaty & saline peaty	0.4	0.10
Skeletal	4.2	1.30
Other	6.8	1.90
Total geographical area	328.7	100.00

(Source: Agricultural Research Data Book, 2011, IASRI)

Table 1.12: Water statistics of India, 2010

Sl. No.	Items	
1	Average precipitation in depth (mm/yr)	1083
2	Average precipitation in volume (10^9 m ³ /yr)	3560
3	Surface water: produced internally (10^9 m ³ /yr)	1404
4	Groundwater: produced internally (10^9 m ³ /yr)	432
5	Overlap between surface water and groundwater (10^9 m ³ /yr)	390
6	Water resources: total internal renewable (10^9 m ³ /yr)	1446
7	Water resources: total internal renewable per capita (m ³ /inhabitant/yr)	1181
8	Surface water: entering the country (natural) (10^9 m ³ /yr)	635.2
9	Surface water: accounted inflow (actual) (10^9 m ³ /yr)	635.2
10	Surface water: total entering and bordering the country (natural) (10^9 m ³ /yr)	635.2
11	Surface water: total entering and bordering the country (actual) (10^9 m ³ /yr)	635.2
12	Surface water: leaving the country (natural) (10^9 m ³ /yr)	1385
13	Surface water: outflow not submitted to treaties (actual) (10^9 m ³ /yr)	1142
14	Surface water: outflow submitted to treaties (actual) (10^9 m ³ /yr)	243
15	Surface water: outflow secured through treaties (actual) (10^9 m ³ /yr)	170.3
16	Surface water: total external renewable (actual) (10^9 m ³ /yr)	464.9
17	Water resources: total external renewable (natural) (10^9 m ³ /yr)	635.2
18	Water resources: total external renewable (actual) (10^9 m ³ /yr)	464.9
19	Surface water: total renewable (natural) (10^9 m ³ /yr)	2039
20	Surface water: total renewable (actual) (10^9 m ³ /yr)	1869
21	Groundwater: total renewable (natural) (10^9 m ³ /yr)	432
22	Groundwater: total renewable (actual) (10^9 m ³ /yr)	432
23	Water resources: total renewable (natural) (10^9 m ³ /yr)	2081
24	Water resources: total renewable (actual) (10^9 m ³ /yr)	1911
25	Water resources: total renewable per capita (actual) (m ³ /inhabitant/yr)	1560
26	Agricultural water withdrawal (10^9 m ³ /yr)	688
27	Industrial water withdrawal (10^9 m ³ /yr)	17
28	Municipal water withdrawal (10^9 m ³ /yr)	56
29	Total water withdrawal (10^9 m ³ /yr)	761
30	Agricultural water withdrawal as % of total water withdrawal (%)	90.41
31	Industrial water withdrawal as % of total water withdrawal (%)	2.234
32	Municipal water withdrawal as % of total withdrawal (%)	7.359
33	Total water withdrawal per capita (m ³ /inhabitant/yr)	621.4
34	Municipal water withdrawal per capita (total population) (m ³ /inhabitant/yr)	45.73
35	Fresh surface water withdrawal (primary and secondary) (10^9 m ³ /yr)	510
36	Fresh groundwater withdrawal (primary and secondary) (10^9 m ³ /yr)	251
37	Total freshwater withdrawal (primary and secondary) (10^9 m ³ /yr)	647.5
38	Direct use of agricultural drainage water (10^9 m ³ /yr)	113.5
39	Freshwater withdrawal as % of total actual renewable water resources (%)	33.88
40	Agricultural water withdrawal as % of total actual renewable water resources (%)	36

(Source: www.faostat.fao.org)

Table 1.13: State-wise inland water resources in India (2011-12)

States/UTs	Rivers & canals (Km)	Reservoirs (Lakh ha)	Tanks & ponds (Lakh ha)	Flood plain akes & derelict lwater bodies (Lakh ha)	Brackish water (Lakh ha)	Total water bodies (Lakh ha)
A&N Islands	115	0.01	0.03	-	1.2	1.24
Andhra Pradesh	11514	2.34	5.17	-	0.6	8.11
Arunachal Pradesh	2000	-	2.76	0.42	-	3.18
Assam	4820	0.02	0.23	1.1	-	1.35
Bihar	3200	0.6	0.95	0.05	-	1.6
Chandigarh	2	-	Neg.	Neg.	-	0
Chhattisgarh	3573	0.84	0.63	-	-	1.47
Dadra & Nagar Haveli	54	0.05	-	-	-	0.05
Daman and Diu	12	-	Neg.	-	Neg.	0
Delhi	150	0.04	-	-	-	0.04
Goa	250	0.03	0.03	-	Neg.	0.06
Gujarat	3865	2.43	0.71	0.12	1	4.26
Haryana	5000	Neg.	0.1	0.1	-	0.2
Himachal Pradesh	3000	0.42	0.01	-	-	0.43
Jammu and Kashmir	27781	0.07	0.17	0.06	-	0.3
Jharkhand	4200	0.94	0.29	-	-	1.23
Karnataka	9000	4.4	2.9	-	0.1	7.4
Kerala	3092	0.3	0.3	2.43	2.4	5.43
Madhya Pradesh	17088	2.27	0.6	-	-	2.87
Maharashtra	16000	2.79	0.59	-	0.1	3.48
Manipur	3360	0.01	0.05	0.04	-	0.1
Meghalaya	5600	0.08	0.02	Neg.	-	0.1
Mizoram	1395	-	0.02	-	-	0.02
Nagaland	1600	0.17	0.5	Neg.	-	0.67
Odisha	4500	2.56	1.14	1.8	4.3	9.8
Puducherry	247	-	Neg.	0.01	Neg.	0.01
Punjab	15270	Neg.	0.07	-	-	0.07
Rajasthan	5290	1.2	1.8	-	-	3
Sikkim	900	-	-	0.03	-	0.03
Tamil Nadu	7420	5.7	0.56	0.07	0.6	6.93
Tripura	1200	0.05	0.13	-	-	0.18
Uttar Pradesh	28500	1.38	1.61	1.33	-	4.32
Uttarakhand	2686	0.2	0.01	0	-	0.21
West Bengal	2526	0.17	2.76	0.42	2.1	5.45
India	195210	29.07	24.14	7.98	12.4	73.59

(Source: www.indiastat.com)

Table 1.14: Yearly performance of monsoon in India 1992-93 to 2010-11

Years	Monsoon season (June-September)			Post- monsoon season (October-December)			Winter season (January-February)			Pre-monsoon season (March-May)			Over all rainfall (June-May)		
	Actual (mm)	Normal (mm)	% change	Actual (mm)	Normal (mm)	% change	Actual (mm)	Normal (mm)	% change	Actual (mm)	Normal (mm)	% change	Actual (mm)	Normal (mm)	% change
1992-93	830.7	899.2	-7.6	106.5	114.1	-6.7	37.9	41.0	-7.6	116.5	121.3	-4.0	1091.6	1175.6	-7.1
1993-94	902.1	908.9	-0.7	131.6	119.6	10.0	44.5	40.8	9.1	106.1	123.3	-13.9	1184.3	1192.6	-0.7
1994-95	999.2	906.8	10.2	121.5	119.6	1.6	53.1	41.1	29.2	123.5	123.2	0.2	1297.3	1190.7	9.0
1995-96	904.5	904.7	0.0	117.8	119.9	-1.8	37.4	40.8	-8.3	94.9	123.9	-23.4	1154.6	1189.3	-2.9
1996-97	927.6	905.7	2.4	128.0	120.8	6.0	21.0	40.6	-48.3	118.9	123.2	-3.5	1195.5	1190.3	0.4
1997-98	927.4	908.6	2.1	187.7	119.5	57.1	44.1	41.9	5.3	132.3	128.3	3.1	1291.5	1198.3	7.8
1998-99	945.2	903.6	4.6	178.8	121.8	46.8	28.4	42.8	-33.6	123.1	130.6	-5.7	1275.5	1198.8	6.4
1999-00	866.9	903.2	-4.0	144.7	121.8	18.8	43.1	42.5	1.4	128.8	129.5	-0.5	1183.5	1197.0	-1.1
2000-01	833.7	902.3	-7.6	64.1	121.7	-47.3	16.2	42.2	-61.6	129.7	129.3	0.3	1043.7	1195.5	-12.7
2001-02	826.0	901.1	-8.3	137.7	121.7	13.1	35.0	41.2	-15.0	121.5	132.0	-8.0	1120.2	1196.0	-6.3
2002-03	737.1	911.7	-19.2	83.4	123.7	-32.6	53.2	38.3	38.9	107.7	131.7	-18.2	981.4	1205.4	-18.6
2003-04	947.3	902.7	4.9	134.6	125.0	7.7	34.5	39.2	-12.0	161.6	129.6	24.7	1278.0	1196.5	6.8
2004-05	779.6	893.3	-12.7	111.8	125.7	-11.1	69.8	43.8	59.0	124.7	134.5	-7.3	1085.9	1197.3	-9.3
2005-06	879.3	892.5	-1.0	138.4	125.8	10.0	27.8	43.9	-37.0	139.9	134.6	3.9	1185.4	1196.8	-1.0
2006-07	886.6	892.2	-0.6	99.3	125.9	-21.1	34.3	43.8	-21.7	112.8	133.6	-15.6	1133.0	1195.5	-5.2
2007-08	936.9	892.2	5.0	85.4	125.9	-32.2	42.6	43.2	-1.4	115.3	133.5	-13.6	1180.2	1194.8	-1.2
2008-09	873.2	892.2	-2.1	87.2	125.9	-30.7	23.6	43.8	-46.1	91.0	134.5	-32.3	1075.0	1196.4	-10.1
2009-10	689.8	892.2	-22.7	135.5	125.9	7.6	24.6	43.8	-43.8	122.9	133.7	-8.1	972.8	1195.6	-18.6
2010-11	912.8	893.2	2.2	153.2	126.3	21.3	31.9	40.9	-22.0	114.4	131.3	-12.9	1212.3	1191.7	1.7

(Source: Agricultural Statistics at a Glance, 2011; DES, MoA, GOI)

Table 1.15: Changes in food consumption pattern in rural and urban areas: All-India, 1987-88 to 2009-10

Food Item	Rural (% share of consumption)					Urban (% share of consumption)				
	1987-88	1993-94	1999-00	2004-05	2009-10	1987-88	1993-94	1999-00	2004-05	2009-10
Cereals	26.3	24.2	22.2	18.0	15.6	15.0	14.0	12.4	10.1	9.1
Grain	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1
Cereal Substitutes	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Pulses & its products	4.0	3.8	3.8	3.1	3.7	3.4	3.0	2.8	2.1	2.7
Milk & its products	8.6	9.5	8.8	8.5	8.6	9.5	9.8	8.7	7.9	7.8
Edible Oil	5.0	4.4	3.7	4.6	3.7	5.3	4.4	3.1	3.5	2.6
Egg, Fish & Meat	3.3	3.3	3.3	3.3	3.5	3.6	3.4	3.1	2.7	2.7
Vegetables	5.2	6.0	6.2	6.1	6.2	5.3	5.5	5.1	4.5	4.3
Fruits & Nuts	1.6	1.7	1.7	1.9	1.6	2.5	2.7	2.4	2.2	2.1
Sugar	2.9	3.1	2.4	2.4	2.4	2.4	2.4	1.6	1.5	1.5
Salt & Spices	2.9	22.7	3.0	2.5	2.4	2.3	2.0	2.2	1.7	1.5
Beverages etc	3.9	4.2	4.2	4.5	5.6	6.8	7.2	6.4	6.2	6.3
Food Total	64.0	63.2	59.4	55.0	53.6	56.4	54.7	48.1	42.5	40.7
Non-Food Total	36.0	36.8	40.6	45.0	46.4	43.6	45.3	51.9	57.5	59.3

 (Source: Household Consumption Expenditure 2009-10, 66th Round Survey Report of NSSO)

Table 1.16: Flow of institutional credit for agriculture in India from 2001-02 to 2010-11

Item	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
₹ in Crores										
Production (short term) credit										
Co-Operative Banks	18787	19668	22640	27157	34930	38622	40515	40230	56946	64527
Regional Rural Banks	3777	4775	6088	10010	12712	16631	20715	22413	29802	37808
Commercial Banks	17904	21104	26192	36793	57640	83202	122289	147818	189908	216773
Other Agencies	41	39	57	104	68	0	0	0	0	0
Sub Total (A)	40509	45586	54977	74064	105350	138455	183519	210461	276656	319108
Medium/long-term credit commercial & rural banks										
Co-Operative Banks	4737	3968	4235	4074	4474	3858	3169	5962	6551	5578
Regional Rural Banks	1077	1295	1493	2394	2511	3804	4099	4352	5415	6160
Commercial Banks	15683	18670	26249	44688	67837	83283	58798	81133	95892	115933
Other Agencies	39	41	27	89	314	0	0	0	0	0
Sub Total (B)	21536	23974	32004	51245	75136	90945	66066	91447	107858	127671
Short term + medium/ long-term credit										
Co-Operative Banks	23524	23636	26875	31231	39403	42480	48258	46192	63497	70105
Regional Rural Banks	4854	6070	7581	12404	15223	20435	25312	26765	35217	43968
Commercial Banks	33587	39774	52441	81481	125477	166485	181088	228951	285800	332706
Other Agencies	80	80	84	193	382	0	0	0	0	0
Sub Total (A+B)	62045	69560	86981	125309	180485	229400	254658	301908	384514	446779

(Source: www.indiastat.com)

Table 1.17: India's position in world agriculture, 2008

Item	India	World	India's		Next to
			% share in world	Rank	
Area (million ha)					
Total area	329	13442	2.4	7	Russian Federation, Canada, USA, China, Brazil, Australia
Land area	297	13009	2.3	7	Russian Federation, China, USA, Canada, Brazil, Australia
Arable land	159	1411	11.3	2	USA
Population (million)					
Total	1181	6750	17.5	2	China
Agriculture	583	2617	22.3	2	China
Economically active population (million)					
Total	472	3178	14.9	2	China
Agriculture	262	1295	20.2	2	China
Crop production (million t)					
Total cereals	267	2521	10.6	3	China, USA
Wheat	79	683	11.5	2	China
Rice (paddy)	148	686	21.6	2	China
Total pulses	15	61	24.6	1	
Oilseed	7	38	18.8	2	China
Rapeseed	6	58	10.3	3	Canada, China
Fruits & vegetables (million t)					
Vegetables & melon	90	932	9.7	2	China
Fruits	67	580	11.6	2	China
Potatoes	35	326	10.6	2	China
Onion (dry)	14	73	18.5	2	China
Commercial crops (million t)					
Sugarcane	348	1736	20.1	2	Brazil
Tea	0.81	3.90	20.7	3	China, Turkey
Coffee	0.26	8.25	3.2	7	Brazil, Vietnam, Colombia, Indonesia, Ethiopia, Mexico
Jute & allied fibers	2.02	3.20	63.1	1	
Cotton (lint)	3.77	22.85	16.5	2	China
Tobacco leaves	0.52	6.88	7.6	3	China, Brazil
Livestock (million heads)					
Cattle	175	1372	12.7	2	Brazil
Buffaloes	105	185	56.7	1	
Camels	0.63	24.73	2.5	10	Somalia, Sudan, Ethiopia, Niger, Mauritania, Kenya, Mali, Pakistan, Chad
Sheep	65	1086	6.0	3	China, Australia
Goats	126	864	14.5	2	China
Chicken	584	18139	3.2	5	China, USA, Indonesia, Brazil
Implements (000' numbers)					
Tractors in use	3149	29320	10.7	2	USA
Animal products					
Milk (000't)	109000	694235	15.7	1	
Eggs (000't)	3060	66103	4.6	3	China, USA
Meat (000't)	4353	277848	1.6	5	China, USA, Brazil, Germany

(Source: Agricultural Research Data Book, 2011, IASRI)

Table 1.18: Indices for agricultural production in India (1980-81 to 2011-12)

Year	All Crops	Food Grains	Pulses	Oil Seeds	Plantation Crops	Spices & Condiments	Fruits & Vegetables
(Base : Triennium Ending 1981-82=100)							
Weight	100	62.92	7.94	12.64	2.29	2.59	4.9
1980-81	102.1	104.9	104.1	95.1	98.4	98.3	102.4
1981-82	109.2	107.6	126.7	116.4	101.5	104	104.4
1982-83	104.8	103.7	115.8	101.8	100.3	106.9	101.9
1983-84	118.6	122.8	126.5	120.2	100.3	112.2	116.7
1984-85	117.9	117.5	117.7	126.7	120.7	119.1	123.1
1985-86	119.5	123.4	131	109.8	102.4	142.1	110.7
1986-87	115.2	116.9	115.2	110.8	121.8	123.6	121.9
1987-88	115.3	113.5	105.3	125.7	119.1	131.3	130.5
1988-89	140	138.1	136.4	170.7	138.6	138.7	136.7
1989-90	143	139.1	127.1	166.1	131.6	153.8	137.6
1990-91	148.4	143.7	140.5	179.5	144.9	143.9	145.1
1991-92	145.5	137.6	118.6	181.9	146.1	138.3	156
1992-93	151.6	144.3	126.5	193.6	146.6	164.1	154.5
(Base : Triennium Ending 1993-94 = 100)							
Weight	100	50.63	8.02	11.97	2.29	2.59	7.39
1993-94	123	135.1	117.6	134.1	-	-	-
1994-95	130.1	141	128.1	133.8	-	-	-
1995-96	126.8	131.4	109.4	137.3	-	-	-
1996-97	137.8	145.1	127.9	151.7	-	-	-
1997-98	130.8	140.9	119.5	130.3	-	-	122.6
1998-99	137.8	150	137.6	151.3	-	-	137.6
1999-00	140.7	152.9	121.8	125.7	-	-	132.4
2000-01	134.1	141.9	99.6	113	-	-	136.1
2001-02	142.1	155.3	121.5	126.9	-	-	140.7
2002-03	123.9	126.6	100.9	90.7	-	-	129.6
2003-04	133	155.1	134.2	154	-	-	134.6
2004-05	130.9	144.2	119.8	150.2	-	-	138.3
2005-06	146.8	152.5	122.6	171.6	-	-	151.7
2006-07	167.8	158.8	130.3	147.1	-	-	162.6
2007-08	172.9	168.6	135.4	180.2	-	-	184.9
2008-09	161.8	171.3	133.7	167.9	-	-	241.9
2009-10	159.6	159.4	134.5	150.7	-	-	240.3
2010-11	185.3	178.9	167.4	196.7	-	-	274.5
2011-12	192	188.1	157.9	181.8	-	-	274.5

(Source: www.indiastat.com)

Table 1.19: Area under principal crops in India (1950-51 to 2009-10)

(000'ha)

Year	Cereals & Millet	Pulses	Total Food Grains	Spices & Condiments	Fruits & Vegetables
1950-51	149742	20554	101196	1244	2249
1951-52	151130	20308	100853	1314	2170
1952-53	84420	20792	105212	1177	2020
1953-54	88438	21999	110437	1190	2156
1954-55	86348	23007	109355	1327	2156
1955-56	87717	23608	111325	1438	2356
1956-57	88798	23864	112662	1528	2337
1957-58	87139	22629	109768	1386	2459
1958-59	90403	24442	114845	1301	2577
1959-60	91238	25119	116357	1429	2581
1960-61	91899	23665	115564	1569	2649
1961-62	92893	24388	117281	1471	2669
1962-63	93779	24378	118157	1471	2887
1963-64	93372	24324	117696	1594	2940
1964-65	94256	24163	118419	1696	3039
1965-66	92106	22781	114887	1516	3208
1966-67	93940	22058	115998	1680	3314
1967-68	98237	23017	121254	1770	3465
1968-69	97444	21865	119309	1550	3608
1969-70	99705	23009	122714	1655	3616
1970-71	101784	23126	124910	1864	3683
1971-72	100312	22534	122846	1909	3566
1972-73	99701	21642	121343	1665	3674
1973-74	103716	23667	127383	1784	3780
1974-75	99305	22491	121796	1752	3971
1975-76	103719	24819	128538	1790	4203
1976-77	101423	23654	125077	1873	4162
1977-78	103807	23918	127725	2213	4409
1978-79	105310	23956	129266	2200	4692
1979-80	103251	22347	125598	2077	4699
1980-81	104900	22708	127608	2065	4924
1981-82	105517	24180	129697	2070	5077
1982-83	102588	22974	125562	2224	4998
1983-84	107896	23527	131423	2261	5343
1984-85	104246	22802	127048	2187	5728
1985-86	104319	24437	128756	2232	5771
1986-87	104607	23385	127992	2213	5888
1987-88	99321	21555	120876	2419	6117
1988-89	104454	23119	127573	2499	6365
1988-89	104454	23119	127573	2499	6365
1989-90	103117	23409	126526	2456	6567
1990-91	103065	24883	127948	2325	6692
1991-92	99841	22679	122520	2371	6892
1992-93	101646	23569	125215	2719	7007
1993-94	101414	23411	124825	2857	7201
1994-95	101666	24283	125949	2677	7528
1995-96	99826	23637	123463	2665	7563
1996-97	101785	23317	125101	2832	7535
1997-98	101718	23998	125716	2991	7708

Contd...

Year	Cereals & Millet	Pulses	Total Food Grains	Spices & Condiments	Fruits & Vegetables
1998-99	102364	24515	126879	2895	8143
1999-00	102600	22118	124719	2898	8225
2000-01	101354	21325	122680	2802	8220
2001-02	101234	23196	124430	3229	8705
2002-03	93996	21442	115438	2912	9121
2003-04	100494	24458	124952	3203	9336
2004-05	98808	23889	122697	3074	9649
2005-06	99930	23671	123601	2903	9923
2006-07	100616	23490	124106	3020	9728
2007-08	100889	24821	125710	3265	10095
2008-09	100868	23767	124635	3140	10200

(Source: www.indiastat.com)

Table 1.20: Fertilizer use in India from 1999-00 to 2010-11

(00000't)

Year	Urea	DAP	MOP	N	P	K	Total	Kg/ha
1999-00	202.78	69.37	20.49	115.92	47.98	16.78	180.69	94.9
2000-01	191.86	58.84	18.29	109.2	42.15	15.67	167.02	89.63
2001-02	199.17	61.81	19.93	113.1	43.82	16.67	173.6	91.13
2002-03	184.93	54.73	19.12	104.74	40.19	16.01	160.94	84.49
2003-04	197.67	56.24	18.41	110.77	41.24	15.98	167.99	88.19
2004-05	206.65	62.56	24.06	117.13	46.24	20.61	183.98	96.59
2005-06	222.97	67.64	27.31	127.23	52.04	24.13	203.4	105.5
2006-07	243.37	73.81	25.86	137.73	55.43	23.35	216.51	-
2007-08	259.63	74.97	28.8	144.19	55.15	26.36	225.7	-
2008-09	266.49	92.31	40.78	150.9	65.06	33.13	249.09	-
2009-10	266.74	104.92	46.34	155.8	72.74	36.32	264.86	135.76
2010-11	281.12	108.7	39.32	165.58	80.5	35.14	281.22	144.14
2011-12	292.74	111.87	29.79	-	-	-	113.75	-

(Source: www.indiastat.com)

Table1.21: Pesticide use in India

In tonnes

Items	2003	2004	2005	2006	2007	2008	2009	2010
Benzimidazoles	859	400	603	2167	774	638	1195	1992
Chlorinated Hydrocarbons	2655	2907	2242	4209	3639	2841	3228	4485
Dinitroanilines	213	115	289	82	98	81	49	71
Dithiocarbamates	4065	3222	2575	4417	1898	1503	2640	4198
Inorganics	5573	4629	2318	5907	5410	5061	5580	6298
Organo-Phosphates	20039	18582	19541	12704	10979	437	11582	16134
Other Fungicides	531	184	1070	876	216	289	211	567
Other Herbicides	4445	2706	5223	3971	2596	2276	2956	4430
Plant Growth Regulators	23	35	34	839	43	141	50	84
Urea derivatives	2842	2333	1447	2251	1428	1217	1215	1834
Fungicides& Bactericides	11028	8435	6566	13367	8297	7491	9627	13055
Herbicides	7500	5154	6959	6304	11972	3814	4557	6705
Insecticides	22694	21489	21783	16913	14618	3278	14810	20619

(Source: Agricultural Research Data Book, 2011, IASRI)

Table 1.22: Status of farm power sources in India

Year	Agricultural workers		Draft animals		Tractors		Power tillers		Diesel engines		Electric motors	
	Number (million)	Power (mkW)	Number (million)	Power (mkW)	Number (million)	Power (mkW)	Number (million)	Power (mkW)	Number (million)	Power (mkW)	Number (million)	Power (mkW)
1999-00	206.19	10.6	60.0	22.8	2.369	61.83	0.1046	0.586	5.9	33.04	12.85	47.55
2000-01	213.83	10.7	60.3	22.9	2.531	66.06	0.1147	0.642	6.226	34.86	13.25	49.03
2001-02	234.09	10.9	59.3	22.5	2.643	68.98	0.1232	0.690	6.523	36.53	13.601	50.32
2002-03	235.26	11.1	58.4	22.2	2.736	71.41	0.1333	0.747	7.053	39.5	13.921	51.51
2003-04	236.44	11.2	57.5	21.8	2.855	74.52	0.1449	0.811	7.028	39.36	14.21	52.58
2004-05	237.62	11.4	56.5	21.5	2.992	78.09	0.1555	0.871	7.595	42.53	14.467	53.53
2005-06	238.81	11.47	55.8	21.2	3.153	82.29	0.1659	0.929	7.627	42.71	14.75	54.57
2006-07	240.00	11.63	54.9	20.86	3.37	87.96	0.1785	1.000	7.822	43.8	15.054	55.7
2007-08	241.00	11.7	54.0	20.52	3.553	92.73	0.1921	1.076	7.900	44.24	15.8	58.46
2008-09	242.21	12.10	53.32	20.26	3.689	96.28	0.2221	1.244	8.173	45.77	16.203	59.95
2009-10	243.42	12.17	52.65	20.01	3.915	102.18	0.2571	1.439	8.456	47.35	16.6161	61.48

Note: Human = 0.05 kW, Drought animal = 0.38 kW, Tractor = 26.1 kW, Power tiller = 5.6 kW, Electric motor = 3.7 kW, Diesel engine = 5.6kW
 (Source: Singh, S. P., R. S. Singh and Surender Singh. 2011. Sale trend of tractors and farm power availability in India. *Agril. Engg. Today*, 35(2): 25-35)

Table 1.23: Contract farming companies in India

State	Crop	Company/Corporate
Karnataka	Ashwagandha	Himalaya Health Care Ltd.
	Dhavana	Mysore S.N.C. Oil Company
	Marigold & Caprica chilies	AVT Natural Products Ltd.
	Coleus	Natural Remedies Private Ltd.
	Gherkins	20 Pvt. Companies
	Medicinal Plants	Sami Labs Limited, Bangalore
Maharashtra	Soybean	Tinna Oils and Chemicals
	Several fruits, vegetables, cereals, spices and pulses	Ion Exchange Enviro Farms Ltd. (IEEFL)
	Potato	PepsiCo (India) Ltd., Mahindra Sulabh
	Sugarcane, Orange	Cooperative Societies
Madhya Pradesh	Wheat, Maize and Soybean	Cargil India Ltd.
	Several fruits, vegetables, cereals, spices and pulses	Ion Exchange Enviro Farms Ltd. (IEEFL)
	Soybean	ITC-IBD
	Soybean	M/s Mahindra Sulabh
	Garlic and White onion	M/s Garlico Industries Limited.
Punjab	Tomato and Chilly	Nijjer Agro Foods Ltd.
	Barley	United Breweries Ltd.
	Basmati, Maize	Satnam overseas Sukhjit Starch (Mahindra Shubhlabh Services Ltd.)
	Basmati	Satnam Overseas, DD Intl. Incomp., Amira Foods India Ltd. (Escorts Ltd. And Grain tech)
	Basmati, Groundnut, Potato and Tomato	PepsiCo India Ltd.
	Green vegetables and exotic vegetables	Punjab Agro Foods Park Limited, a joint venture of Punjab Agro Export Corporation and IDMA, a corporate body.
Tamil Nadu	Cotton	Super Spinning Mills
	Maize	Bhuvi Care Pvt. Ltd.
	Paddy	Bhuvi Care Pvt. Ltd.
	Cotton	Appache Cotton Company
	Maize, Gherkins	M/s Mahindra Sulabh
Chhattisgarh	SafedMusli	M/s Larson & Turbo
	Tomato	BEC Co.
Uttaranchal	Guar Gum	M/s Mahindra Sulabh
Haryana	Turmeric, Mentha, Sunflower, White Musli	HAFED
Andhra Pradesh	White Viagra	Nandan Farms (P) Ltd. Hyderabad, Sprearhead National Products, SARI of Switzerland.

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State	Crop	Company/Corporate
	Fruits, Vegetables and flowers. Gherkins	Horticulture Department Aduri Natural Products, ACE Agrotech, Copricorn Natural Products and Mahendra and Mahendra
	Cocoa	Cadbury India Ltd.
	Oil palm	M/s Godrej, Palm Tech, SICAL, Simapuri Industry and Radhika Vegetables Oil Industries.
Gujarat	Processing of Medicinal Plants	Reliance Group
Odisha	Seeds (Paddy, Raggi, Green Gram, Arhar, Groundnut, Seamum, Niger and vegetables seeds	Odisha Seeds Production Corporation
	Sugar	M/s Shakti Sugar Ltd. of Tamil Nadu
	Eucalyptus Plantation	M/s J.K.Paper Mills
	Tomato and Mango	M/s BilatiOdisha
Sikkim	Spices	M/s High Altitude Spices Rabongla
	Orange	M/s Bulk Consumer, Government Fruit Preservation factory, Singtom.
Kerala	Pineapple	M/S Agreenco, Paliikunnu, Kanur
	SafedMusli, Steevia	M/s Herbs India, Calicut
West Bengal	Potato	M/s FritoLay India Limited
	Pineapple	M/s Dabur India Limited

(Source: www.indiastat.com)

Table 1.24: Agricultural produce markets in India (2009-10)

Sl. No	Name of the State/UT	Area in (Km ²)	Total population (crore)	Total regulated markets	Area covered (Km ²)	Requirement of markets
1	Andhra Pradesh	275045	7.57	901	305.27	3501
2	Arunachal Pradesh	83743	0.11	69	1213.67	1066
3	Assam	78438	2.66	226	347.07	998
4	Bihar	94163	8.29	-	-	1198
5	Jharkhand	79714	2.69	201	396.59	1015
6	Goa	3702	0.13	8	462.75	47
7	Gujarat	196024	5.06	414	473.49	2495
8	Haryana	44212	2.11	284	155.68	563
9	Himachal Pradesh	55673	0.61	47	1184.53	709
10	Jammu & Kashmir	222236	1.01	0	0	2829
11	Karnataka	191791	5.27	501	382.82	2441
12	Kerala	38863	3.18	0	0	495

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Sl. No	Name of the State/UT	Area in (Km ²)	Total population (crore)	Total regulated markets	Area covered (Km ²)	Requirement of markets
13	Madhya Pradesh	308346	6.04	513	601.06	3924
14	Chhattisgarh	135100	2.08	184	734.24	1719
15	Maharashtra	307690	9.68	880	349.65	3916
16	Manipur	22327	0.24	0	0	284
17	Meghalaya	22429	0.23	2	11214.5	285
18	Mizoram	21081	0.09	0	0	268
19	Nagaland	16579	0.20	0	0	211
20	Odisha	155707	3.67	314	495.88	1982
21	Punjab	50362	2.43	488	103.2	641
22	Rajasthan	342239	5.65	430	795.9	4356
23	Sikkim	7096	0.05	1	7096	90
24	Tamil Nadu	130058	6.21	292	445.4	1655
25	Tripura	10486	0.32	21	499.33	133
26	Uttar Pradesh	238566	16.61	605	394.32	3036
27	Uttarakhand	55845	0.85	58	962.84	711
28	West Bengal	88752	8.02	687	129.19	1130
29	A&N Islands	8249	0.04	0	0	105
30	Chandigarh	114	0.09	1	114	1
31	D & N Haveli	491	0.02	0	0	6
32	Daman and Diu	112	0.02	0	0	1
33	Delhi	1483	1.38	21	70.62	19
34	Lakshadweep	32	0.01	0	0	0
35	Puducherry	492	0.10	9	54.67	6
	Total	3287240	102.70	7157	28982.67	41836

(Source: www.agmarknet.nic.in)

Table 1.25: Whole sale price index (WPI) of Agricultural commodities and their weights

(Base Year 2004-05=100)

Particulars	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
CEREALS	3.37323	105.99	116.74	127.86	143.09	161.18	169.67
Rice	1.79348	105.23	110.03	122.46	140.62	157.93	167.19
Wheat	1.11595	105.02	125.12	134.28	147.57	166.47	171.44
Jowar	0.09572	109.53	124.62	147.99	151.19	168.60	189.54
Bajra	0.11522	110.48	122.46	128.02	139.15	168.07	175.58
Maize	0.21727	113.10	122.49	130.23	139.10	153.34	168.94
Barley	0.01671	114.84	123.71	136.59	152.86	150.60	165.68
Ragi	0.01885	101.36	112.17	123.36	134.93	174.67	173.79
PULSES	0.71662	113.34	149.18	144.93	155.84	190.76	196.86

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Particulars	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Gram	0.33490	113.94	156.15	148.98	153.79	152.16	149.97
Arhar	0.13740	98.05	108.31	126.08	144.28	214.70	205.06
Moong	0.08429	121.66	160.30	141.18	150.42	233.80	280.44
Masur	0.05764	102.51	114.97	145.68	196.16	228.16	194.45
Urad	0.10239	131.08	191.33	159.77	159.78	228.43	271.75
FRUITS & VEGETABLES	3.84270	108.00	111.78	124.63	134.86	147.76	172.05
VEGETABLES	1.73553	113.71	114.28	137.07	141.89	161.80	182.83
Potato	0.20150	118.51	132.59	146.85	110.29	206.24	131.95
Sweet Potato	0.01750	114.66	146.48	145.81	148.81	184.70	194.14
Onion	0.17794	126.62	115.90	174.68	177.75	204.30	259.60
Tapioca	0.06781	95.55	112.78	134.71	159.60	240.78	282.82
Ginger(Fresh)	0.04514	70.39	44.18	57.72	98.22	106.65	114.54
Peas(Green)	0.10999	108.48	99.43	125.72	128.28	127.67	144.87
Tomato	0.26738	119.05	125.56	123.82	153.24	153.56	190.39
Cauliflower	0.23627	101.32	97.45	101.45	125.52	124.38	169.87
Brinjal	0.29840	114.31	116.43	130.53	142.75	139.13	164.66
Okra (Lady finger)	0.12604	102.68	115.24	123.33	133.84	145.53	174.80
Cabbage	0.18756	127.32	119.51	157.11	168.51	150.65	214.58
FRUITS	2.10717	103.27	109.68	114.38	129.08	136.17	163.17
Banana	0.34264	110.57	115.28	120.56	132.45	146.62	163.01
Mango	0.65134	95.03	101.93	110.40	151.65	141.97	191.52
Apple	0.10397	100.88	124.79	124.62	134.74	171.23	173.59
Orange	0.13309	113.30	123.23	113.49	138.25	148.63	185.32
Cashew nut	0.16399	106.67	110.64	106.12	117.04	136.57	151.04
Coconut(Fresh)	0.24113	85.03	82.19	83.05	95.88	85.58	97.77
Papaya	0.10340	92.08	94.97	110.14	137.11	154.80	189.62
Grapes	0.09399	98.72	109.85	126.48	127.17	124.78	188.85
Pineapple	0.04577	94.25	97.89	116.28	128.82	154.43	177.92
Guava	0.07609	119.92	121.32	120.38	125.20	110.43	177.67
Litchi	0.03716	-	-	79.70	77.10	102.70	179.20
Lemon	0.07225	131.73	165.05	194.99	183.42	164.70	197.49
Sapota	0.04235	101.28	100.43	124.07	116.20	149.04	174.02
MILK	3.23818	101.01	108.98	114.58	123.24	146.41	175.88
Milk	3.23818	101.01	108.98	114.58	123.24	146.41	175.88
EGGS,MEAT & FISH	2.41384	106.29	112.77	116.37	125.38	151.48	190.13
Egg	0.18675	102.12	104.83	119.89	126.47	143.58	165.44
Fish-Inland	0.57256	118.14	108.52	101.38	101.37	152.63	193.43
Fish-Marine	0.72259	103.20	120.97	125.65	146.23	160.53	222.84
Mutton	0.34586	105.05	117.81	124.79	139.50	175.06	187.17
Beef & Buffalo Meat	0.11585	111.66	116.55	119.69	121.20	142.99	188.20
Poultry Chicken	0.41028	96.39	101.19	105.78	106.40	117.70	141.16
Pork	0.05995	108.62	122.91	154.15	156.62	167.45	197.50

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Particulars	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
CONDIMENTS & SPICES	0.56908	94.54	136.71	142.93	151.24	182.68	243.98
Black Pepper	0.02959	92.71	132.45	184.63	180.80	186.27	247.12
Chillies(Dry)	0.15812	83.92	162.35	157.08	182.61	205.20	221.80
Turmeric	0.07573	90.45	88.14	82.77	105.42	210.32	401.72
Cardamom	0.01703	84.65	93.49	124.40	141.33	206.56	348.22
Ginger(Dry)	0.05150	100.02	81.89	82.57	98.60	103.10	119.25
Betelnut/Arecanut	0.10437	107.91	139.47	141.09	139.29	141.61	154.69
Cummin	0.04393	100.13	107.36	125.76	124.42	150.33	163.35
Garlic	0.06437	92.77	202.27	211.47	132.02	228.07	410.12
Corriander	0.02444	110.63	140.64	185.46	321.91	212.26	174.06
OTHER FOOD ARTICLES	0.18347	107.77	126.62	132.78	175.03	196.17	181.94
Tea	0.11233	88.88	104.21	104.40	153.21	174.06	148.33
Coffee	0.07114	137.63	162.04	177.61	209.48	231.07	235.01
FLOWERS	0.21326	103.82	106.13	129.78	152.28	179.20	181.91
Rose	0.14928	103.66	100.30	114.78	135.46	158.62	187.80
Jasmine	0.03199	109.36	123.88	155.57	194.31	262.40	160.96
Marigold	0.03199	98.94	115.67	173.97	188.51	191.80	175.47
DAIRY PRODUCTS	0.56798	99.47	105.41	116.37	122.94	138.79	152.07
Powder Milk	0.20061	99.46	108.97	125.73	130.00	137.03	150.22
Ghee	0.21595	97.79	102.11	111.63	122.06	149.81	163.71
Butter	0.06118	101.15	109.27	116.72	122.34	141.38	159.79
Ice Cream	0.05063	103.48	98.46	98.11	100.79	104.50	115.59
Condensed Milk	0.03961	100.89	108.21	117.35	121.22	127.67	132.57
PROCESSING OF FOOD	0.35785	101.66	103.90	105.12	106.32	121.09	127.21
Canned Fish	0.05534	108.32	114.51	118.05	122.49	136.20	136.59
Fish Meal	0.05941	100.68	92.68	98.49	102.60	105.68	100.20
Processed Prawn	0.11517	96.80	105.81	100.01	97.88	110.67	122.53
Canned Meat	0.03554	112.19	121.52	135.97	148.78	162.96	175.87
Vegetables Seeds	0.09239	100.30	95.60	96.20	93.27	118.80	126.02
GRAIN MILL PRODUCTS	1.34017	104.80	120.09	125.02	130.05	137.97	145.79
Maida	0.45224	104.61	121.98	125.79	130.08	138.44	146.73
Wheat Flour (Atta)	0.39334	105.73	126.33	130.58	136.58	147.00	158.94
Gram Powder (Besan)	0.09734	113.55	128.92	124.90	126.33	127.18	134.23
Sooji (Rawa)	0.08499	105.95	129.53	135.97	141.71	158.41	168.91
Rice Bran	0.11785	96.21	102.42	119.29	128.20	125.67	122.29
Wheat Bran	0.09066	103.19	103.40	108.27	105.19	117.38	130.37
Beaten Rice Flakes (Chire)	0.03750	101.75	107.00	107.00	107.00	107.00	107.00
Maize Atta	0.01572	112.50	118.80	125.00	135.14	140.60	140.60
Other Grain Mill Products	0.05053	103.52	103.33	113.02	131.02	137.63	131.33
BAKERY PRODUCTS	0.44354	101.27	103.96	105.30	109.94	116.25	126.25
Biscuit / Cookies	0.35095	100.22	100.47	100.31	104.42	110.46	121.02
Bread & Buns	0.06304	105.47	121.06	128.69	133.19	139.26	147.45
Cakes & Muffins	0.02955	105.06	108.88	114.98	126.14	136.14	143.71

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Particulars	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
SUGAR, KHANDSARI & GUR	2.08859	108.76	107.42	90.90	106.82	161.93	160.50
Sugar	1.73731	109.67	109.57	93.40	108.54	166.79	165.02
Gur	0.07763	115.59	109.21	95.71	127.23	195.37	197.20
Khandsari	0.06133	111.63	108.15	90.20	106.75	155.87	159.87
Molasses	0.12926	96.42	90.18	59.36	82.28	118.49	105.10
Bagasse	0.03946	100.48	72.36	63.51	73.07	83.98	118.17
Sugar Confectionary	0.04360	99.20	101.10	102.77	103.63	116.64	119.48
EDIBLE OILS	3.04293	94.08	102.45	116.02	121.55	114.38	120.58
Vanaspati	0.71494	93.25	102.50	105.73	109.98	107.25	116.32
Groundnut Oil	0.30438	97.03	109.45	133.59	131.23	127.82	145.25
Palm Oil	0.41999	93.23	99.38	109.31	113.21	111.33	111.30
Rice Bran Oil	0.18489	99.29	108.63	133.64	135.32	120.87	120.12
Cotton Seed Oil	0.26101	93.40	106.25	132.86	142.72	118.12	124.31
Mustard & Rapeseed Oil	0.45094	94.49	96.90	109.29	122.36	115.27	116.30
Soyabean Oil	0.37971	90.64	103.06	118.65	126.17	117.59	125.57
Copra Oil	0.10231	99.88	94.14	93.68	99.87	94.60	100.08
Sunflower Oil	0.17348	94.42	104.67	125.13	124.09	113.16	120.43
Gingelly Oil	0.05128	89.05	97.15	113.36	129.47	127.93	134.22
OIL CAKES	0.49441	97.68	103.41	122.24	145.11	167.32	168.63
Cotton Seed Oil Cake	0.12928	98.44	102.78	114.26	120.67	142.06	142.74
Rice Bran Extraction	0.09174	111.40	129.12	151.15	167.42	197.25	223.69
Mustard Oil Cake	0.04018	100.79	99.83	117.69	153.47	184.45	180.16
Groundnut Oil Cake	0.04463	98.83	105.81	128.21	181.30	226.76	240.19
Other Oil Cakes	0.18858	89.48	91.53	113.20	140.64	152.32	140.17
TEA & COFFEE PROCCESING	0.71106	99.37	103.76	108.73	125.05	144.76	149.80
Tea Leaf (Blended)	0.27219	101.03	104.35	111.31	130.31	147.22	153.89
Tea Leaf (Unblended)	0.18048	97.24	101.36	103.87	119.23	145.33	145.55
Tea Dust (Blended)	0.13716	99.54	106.07	106.67	113.74	125.16	134.03
Tea Dust (Unblended)	0.09813	96.05	100.89	104.37	126.29	153.90	157.62
Coffee Powder	0.02310	109.35	114.12	147.29	170.41	188.96	195.80
OTHER FOOD PRODUCTS	0.87933	106.52	104.18	107.82	117.37	134.78	141.15
Cashew Kernel	0.38299	112.55	98.23	94.56	103.33	130.38	135.81
Gola (Cattle Feed)	0.11247	101.62	112.19	125.19	143.40	165.50	178.61
Papad	0.08081	105.07	116.58	122.43	125.97	136.03	144.16
Cashew nut (Roasted)	0.01367	105.43	104.10	105.46	111.50	127.88	130.84
Mixed Spices	0.06599	103.10	108.28	122.59	130.04	134.89	142.67
Pickles	0.02476	101.25	103.88	106.32	108.22	112.85	117.15
Soya Preparations (Excluding Oil)	0.05937	98.50	99.85	112.79	136.15	142.78	140.94
Instant Food Powder	0.13927	100.78	106.87	113.11	118.25	122.56	128.44
AGRICULTURAL MACHINERY	0.13899	106.42	110.88	115.21	120.36	123.16	133.73
Harvester	0.00929	108.37	115.16	124.43	131.77	139.19	139.52
Sprinkler	0.00916	110.74	134.31	131.60	116.22	121.65	116.82
Thresher	0.01024	102.50	107.20	118.14	139.53	142.48	145.38
Separators & Driers	0.01689	117.43	124.62	137.23	145.14	137.28	138.37
Other Agriculture Implements	0.09341	104.25	106.09	108.38	113.06	117.05	132.68

(Source: www.indiastat.com)

Table 1.26: Export of agricultural products from India from 2008-09 to 2010-11

(Quantity in 000' tonnes, Value in 'Crore)

Commodity	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
Pulses	136.27	540.22	99.91	407.35	205.69	852.79
Rice basmati	1556.41	9477.03	2016.87	10889.46	2186.45	10581.51
Rice (Other than basmati)	931.89	1687.37	139.54	365.3	96.08	220.25
Wheat	1.12	1.46	0.03	0.05	0.44	0.74
Other cereals	3999.65	3920.58	2892.41	2973.19	3187.86	3596.1
Tea	207.45	2688.87	207.53	2943.53	233.4	3174.5
Coffee	174.08	2255.76	157.41	2032.06	222.86	2912.07
Tobacco unmanufactured	208.31	2766.26	230.8	3621.44	207.55	3007.6
Tobacco manufactured	-	294.78	-	722.96	-	791.07
Poultry & dairy products	-	1130.08	-	549.37	-	780.33
Floriculture products	-	368.81	-	294.46	-	286.52
Spices	673.87	6338.41	663.21	6157.23	749.03	7870.14
Cashew nut shell liquid	10.82	29.69	11.23	27.62	11.36	31.85
Cashew	126.15	2900.97	117.99	2801.58	91.56	2598.15
Sesamum seed	196.98	1494.26	215.73	1494.1	343.03	2194.44
Nigerseed	13.72	64.23	6	24.23	11.82	41.14
Groundnut	297.89	1239.01	340.24	1425.93	418.56	2099.77
Guar gum meal	258.57	1338.99	218.47	1133.31	403	2805.75
Oil meals	6742.93	10269.24	4671.13	7831.79	6797.86	10845.91
Castor oil	357.26	2128.72	398	2179.27	411.21	2851.67
Shellac	6.03	103.89	4.18	71.3	3.88	112.95
Sugar	3332.08	4448.74	44.74	110.21	3241.34	10339.01
Molasses	172.2	82.7	31.1	19.77	1822.88	996.46
Fruits/vegetable seeds	8.54	119.99	8.89	145.08	11.14	170.63
Fresh fruits	-	1945.24	-	2269.08	-	2144.3
Fresh vegetables	-	2454.15	-	2941.73	-	2530.82
Processed vegetables	-	711.22	-	752.3	-	732.97
Processed fruit juices	-	1099.15	-	1159.32	-	1006.41
Miscellaneous processed items	-	2077.44	-	2195.29	-	2569.38
Meat & preparations	-	5371.42	-	6286.1	-	8775.91
Marine products	465	7066.37	709.88	9899.98	800.95	11547.97
Cotton raw including waste	457.56	2865.85	1357.99	9537.08	1258.09	12981.04
Jute hessian	-	415.59	-	307.63	-	699.93
Poultry products	-	413.53	-	366.1	-	272.11
Paper/wood products	-	5441.63	-	5506.04	-	7763.3
Total agricultural exports	-	85951.67	-	89341.33	-	20185.48
Total national exports	-	840755.1	-	845533.6	-	1148170
% share of agricultural exports in national exports	-	10.22	-	10.57	-	10.47

(Source: www.indiastat.com)

Table 1.27: India's imports and exports of agricultural commodities vis-à-vis total national imports/ exports

(₹ Crores)

Year	Agricultural imports	Total national imports	%age agri. imports to total national imports	Agriculture exports	Total national exports	%age agri. exports to total national exports
1990-91	1205.86	43170.82	2.79	6012.76	32527.28	18.49
1991-92	1478.27	47850.84	3.09	7838.04	44041.81	17.80
1992-93	2876.25	63374.52	4.54	9040.30	53688.26	16.84
1993-94	2327.33	73101.01	3.18	12586.55	69748.85	18.05
1994-95	5937.21	89970.70	6.60	13222.76	82673.40	15.99
1995-96	5890.10	122678.14	4.80	20397.74	106353.35	19.18
1996-97	6612.60	138919.88	4.76	24161.29	118817.32	20.33
1997-98	8784.19	154176.29	5.70	24832.45	130100.64	19.09
1998-99	14566.48	178331.69	8.17	25510.64	139751.77	18.25
1999-00	16066.73	215528.53	7.45	25313.66	159095.20	15.91
2000-01	12086.23	228306.64	5.29	28657.37	201356.45	14.23
2001-02	16256.61	245199.72	6.63	29728.61	209017.97	14.22
2002-03	17608.83	297205.87	5.92	34653.94	255137.28	13.58
2003-04	21972.68	359107.66	6.12	37266.52	293366.75	12.70
2004-05	22811.84	501064.54	4.55	41602.65	375339.53	11.08
2005-06	21499.22	660408.90	3.26	49216.96	456417.86	10.78
2006-07	29637.86	840506.31	3.53	62411.42	571779.28	10.92
2007-08	29906.24	1012311.70	2.95	79039.72	655863.52	12.05
2008-09	37183.03	1374435.55	2.71	85951.67	840755.06	10.22
2009-10	59528.34	1363735.55	4.37	89341.33	845533.64	10.57
2010-11	56196.20	1605314.63	3.50	120185.48	1148169.56	10.47
ACGR (%)	19.05	19.93	-	13.96	17.98	-

(Source: DGCIS, Ministry of Commerce, Kolkata)

Section-II

Horticultural Scenario

Table 2.1: Indian horticultural production at a glance

(Area: 000ha, Production: 000t)

Year	Fruits		Vegetables		Flowers		Plantation Crops		Spices		Total	
	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
1993-94	3184	37255	4876	65787	53	233	2448	8866	2472	2515	13033	114661
1994-95	3246	38603	5013	67286	60	261	2546	9767	2215	2477	13080	118394
1995-96	3357	41507	5335	71594	82	334	2733	9630	2216	2410	13723	125483
1996-97	3580	40458	5515	75074	71	366	2824	9730	2372	2805	14362	128482
1997-98	3702	43263	5607	72683	74	366	2847	9449	2524	2801	14754	128611
1998-99	3727	44042	5866	87536	74	419	2905	11063	2531	3091	15103	146200
1999-00	3797	45496	5993	90831	89	509	2788	9278	2500	3023	15247	149224
2000-01	3869	43138	6250	93850	98	556	2862	9458	2500	3023	15694	150197
2001-02	4010	43001	6156	88622	106	535	2984	9697	3220	3765	16592	145785
2002-03	3788	45203	6092	84815	70	735	2984	9697	3220	3765	16270	144380
2003-04	4675	45645	6309	93165	101	580	3102	13161	5155	5113	19449	157835
2004-05	5049	50867	6744	101246	118	659	3147	9835	3150	4001	18445	166938
2005-06	5324	55356	7213	111399	129	654	3283	11263	2366	3705	18707	182816
2006-07	5554	59563	7581	114993	144	880	3207	12007	2448	3953	19389	191813
2007-08	5857	65587	7848	128449	166	868	3190	11300	2617	4357	20207	211234
2008-09	6101	68466	7981	129077	167	987	3217	11336	2629	4145	20662	214716
2009-10	6329	71516	7985	133738	183	1021	3265	11928	2464	4016	20876	223089
2010-11	6383	74878	8495	146554	191	1031	3306	12007	2940	5350	21825	240531
ACGR (%)	4.55	4.02	3.18	4.62	7.28	8.84	1.57	1.61	1.08	4.14	3.19	4.26

(Source: Agricultural Research Data Book, 2011, IASRI)

Table 2.2: State-wise status of cold storage capacity in India (As on 04.05.2012)

(000'tonnes)

States	Cold storage requirement	Present capacity	Gap
Andhra Pradesh	2324	901	1423
Assam	919	88	831
Bihar	4241	1147	3094
Chhattisgarh	543	342	201
Gujarat	2748	1267	1481
Haryana	804	393	411

Contd...

States	Cold storage requirement	Present capacity	Gap
Himachal Pradesh	487	20	467
Jammu and Kashmir	737	43	694
Jharkhand	796	170	626
Karnataka	2404	407	1997
Kerala	2771	58	2713
Maharashtra	6273	547	5726
Manipur	80	0	80
Meghalaya	239	3	236
Mizoram	74	0	74
Madhya Pradesh	1213	808	405
Nagaland	70	6	64
Odisha	1835	291	1544
Punjab	1318	1345	-27
Rajasthan	391	324	67
Tamil Nadu	7906	239	7667
Tripura	163	30	133
Uttar Pradesh and Uttarakhand	12228	10187	2041
West Bengal	10566	5682	4884
All India	61130	24298	36832

(Source: www.indiastat.com)

Table 2.3: State-wise grading facilities in India

States	No. of grading facilities	No. of grading facilities per '000	
		Km ²	Million t
Andhra Pradesh	44	0.17	1.12
Arunachal Pradesh	-	0.00	0.00
Assam	-	0.00	0.00
Bihar	12	0.13	0.39
Chhattisgarh	2	0.01	0.20
Goa	-	0.00	0.00
Gujarat	43	0.22	1.75
Haryana	82	1.85	3.93
Himachal Pradesh	10	0.18	3.28
Jammu & Kashmir	46	0.21	9.82
Jharkhand	1	0.01	0.12
Karnataka	44	0.23	1.62
Kerala	52	1.34	7.80
Madhya Pradesh	46	0.15	1.62
Maharashtra	68	0.22	2.17
Manipur	-	0.00	0.00
Meghalaya	-	0.00	0.00

Contd...

States	No. of grading facilities	No. of grading facilities per '000	
		Km ²	Million t
Mizoram	-	0.00	0.00
Nagaland	-	0.00	0.00
Odisha	6	0.04	0.33
Punjab	62	1.23	1.92
Rajasthan	209	0.61	8.67
Sikkim	-	0.00	0.00
Tamil Nadu	47	0.36	1.86
Tripura	-	0.00	0.00
Uttar Pradesh	153	0.64	2.09
Uttarakhand	5	0.09	1.39
West Bengal	24	0.27	0.58
All India	956	0.29	2.03

(Source: Compiled from the data of DMI, MoA, GOI, Faridabad)

Table 2.4: State-wise marketing facilities in India

States	Food parks	Agri-export zones	Commodity exchanges	Pack houses
Andhra Pradesh	1	5	0	6
Arunachal Pradesh	0	0	0	0
Assam	1	1	0	0
Bihar	1	3	0	2
Chhattisgarh	1	0		
Goa	0	0	0	0
Gujarat	0	3	4	6
Haryana	2	0	0	0
Himachal Pradesh	0	1	0	1
Jammu & Kashmir	3	2	0	1
Jharkhand		1		
Karnataka	4	4	1	4
Kerala	4	2	2	0
Madhya Pradesh	6	5	2	0
Maharashtra	7	8	4	89
Manipur	2	0	0	0
Meghalaya	0	0	0	0
Mizoram	1	0	0	0
Nagaland	1	0	0	0
Odisha	1	1	0	0
Punjab	1	3	1	1
Rajasthan	4	2	1	0
Sikkim	0	2	0	0
Tamil Nadu	2	4	0	1

Contd...

States	Food parks	Agri-export zones	Commodity exchanges	Pack houses
Tripura	1	1	0	0
Uttar Pradesh	5	4	4	0
Uttarakhand		4		
West Bengal	8	6	1	0
All India	56	62	20	111

(Source: Compiled from the data of DMI, MoA, GOI, Faridabad)

Table 2.5: State-wise fruits & vegetable processing units and their installed capacities in India (As on 01.04.2007)

Sates/UTs	No. of units	Installed capacity (tonnes)
Maharashtra	865	283430
Goa	38	8180
Madhya Pradesh	95	40590
Chhattisgarh	4	420
Gujarat	234	120870
Dadra & Nagar Haveli	6	480
Assam	44	8260
Arunachal Pradesh	2	60
Manipur	14	2510
Meghalaya	10	390
Mizoram	3	885
Nagaland	7	1920
Sikkim	3	770
Tripura	6	2770
Delhi	181	43510
Chandigarh	15	4620
Rajasthan	111	20100
Haryana	176	101540
Jammu & Kashmir	102	20330
Punjab	240	121410
Himachal Pradesh	130	91625
Uttar Pradesh	497	138780
Uttrakhand	108	29510
Andaman & Nicobar Islands	3	200
Bihar	39	12440
Jharkhand	23	4160
Odisha	17	11310
West Bengal	267	109341
Andhra Pradesh	237	887658
Karnataka	247	208904
Kerala	368	41340
Puducherry	9	1680
Tamil Nadu	432	360826
India	4533	2680819

(Source: www.indiastat.com)

Table 2.6: Monthly wholesale price index (WPI) of fruits and vegetables in India

{(Base year: 1981-82; 1993-94; 2004-05=100) (April 1990 to December 1992 and September 1993 to July 2012)}

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
1981-82=100												
1990				178.0	192.0	205.7	214.8	211.9	212.9	210.2	207.7	202.8
1991	201.8	205.5	205.4	219.8	233.4	252.1	270.4	278.2	274.5	267.6	277.4	252.5
1992	234.6	234.2	239.8	256.7	257.8	280.9	282.9	288.7	277.1	281.0	281.0	269.1
1993									304.6	306.3	293.3	278.3
1993-94=100												
1994	257.8	243.1	243.4	94.7	94.2	110.6	116.9	125.0	115.8	117.2	114.9	102.2
1995	102.3	100.3	102.3	117.0	115.5	126.0	127.5	132.9	133.8	139.2	139.3	119.0
1996	105.7	110.1	116.5	139.1	143.1	149.5	150.1	154.5	149.7	153.0	156.8	159.4
1997	147.4	148.7	135.2	143.2	119.3	122.6	135.3	147.5	152.0	167.1	152.0	145.2
1998	155.4	136.4	138.1	166.3	181.1	198.3	210.8	188.8	196.1	228.5	230.2	197.4
1999	150.7	135.5	140.7	171.6	148.8	147.8	147.1	162.2	157.4	167.6	167.6	149.3
2000	141.6	143.3	149.3	159.5	149.8	157.3	152.0	151.3	159.6	176.7	173.2	164.1
2001	157.1	159.5	160.4	172.9	179.9	185.3	180.3	187.4	197.9	204.4	210.2	204.5
2002	184.2	178.1	181.8	190.1	184.0	198.5	189.0	199.0	204.1	208.6	203.6	176.7
2003	171.4	176.5	180.7	196.4	194.7	212.3	189.3	185.1	203.1	219.8	213.2	191.2
2004	188.1	182.7	171.4	200.5	209.2	208.3	192.2	210.1	215.9	227.2	222.7	192.9
2005	187.5	189.4	194.5	219.0	222.0	220.1	219.6	217.9	231.5	238.2	243.7	219.7
2006	208.4	194.2	192.8	209.0	217.8	229.4	213.4	216.6	249.4	251.7	246.0	232.6
2007	228.7	221.0	222.3	238.3	244.7	232.9	245.8	243.6	258.3	242.3	234.1	222.1
2008	218.5	220.3	236.1	245.4	252.7	241.4	252.0	255.1	276.0	277.0	278.4	249.4
2009	256.2	241.3	240.9	271.1	272.2	274.0	294.7	285.7	305.8	294.9	318.5	300.8
2010	283.5	276.9	268.2	287.1	292.2	294.3	289.6	284.7				
2004-05=100												
2005				101.7	99.9	103.1	113.8	113.0	116.2	122.2	123.3	105.3
2006	102.3	98.9	96.3	98.5	99.5	106.4	107.8	115.2	120.5	123.4	119.7	112.1
2007	111.9	110.9	115.4	121.5	123.3	123.6	132.3	137.6	136.5	133.2	127.4	115.8
2008	109.0	113.8	121.6	128.1	129.3	128.5	135.7	135.6	140.2	151.8	153.7	135.9
2009	136.8	122.7	120.0	134.1	136.1	141.6	151.3	156.6	150.9	155.8	161.5	155.9
2010	147.6	142.2	139.5	153.3	157.6	168.3	171.3	161.8	169.3	175.1	174.2	196.1
2011	206.6	165.1	165.9	193.9	181.6	185.9	191.2	191.4	194.8	198.7	189.8	166.2
2012	160.8	166.0	182.5	215.3	208.5	213.1	211.3					

(Source: www.indiastat.com)

Table 2.7: Agri Export Zones (AEZ) for horticultural products

State	Focus products	Areas
Andhra Pradesh	Mango Pulp & Fresh Vegetables	Chittoor
	Mango & Grape	Ranga Reddy, Medak and Mahaboobnagar
	Mango	Krishna District
	Gherkins	Mahaboobnagar, Rangareddy, Medak, Karimnagar, Warangal, Ananthpur and Nalgonda
	Chilli	Guntur
Assam	Fresh and Processed Ginger	Kamrup, Nalbari, Barpeta, Darrang, Nagaon, Morigaon, Karbi Anglong and North Cachar
Bihar	Litchi, Vegetables and Honey	Muzaffarpur, Samastipur, Hajipur, Vaishali, East and West Champaran, Bhagalpur, Begularai, Khagaria, Sitamahi, Saran and Gopalganj
Gujarat	Mango & Vegetables	Ahmedabad, Khaida, Anand, Vadodra, Surat, Navsari, Valsad, Bharuch and Narmada
	Dehydrated Onion and Garlic	Bhavnagar, Surendranagar, Amreli, Rajkot, Junagadh and Jamnagar
	Sesame Seeds	Amerali, Bhavnagar, Surendranagar, Rajkot and Jamnagar
Himachal Pradesh	Apple	Kinnaur, Shimla, Sirmor, Kulu, Mandi and Chamba
Jammu & Kashmir	Apple	Srinagar, Baramula, Anantnag, Kupwara, Badguam and Pulwana
	Walnut	Baramulla, Anantnag, Pulwama, Budgam, Kupwara and Srinagar, Doda, Poonch, Udhampur,
Rajouri and Kathua		
Jharkhand	Vegetable	Ranchi, Hazaribagh and Lohardaga
Karnataka	Gherkin	Tumkur, Bangalore (Urban), Bangalore (Rural) Hassan, Kolar, Chitradurga, Dhrawad and Bagalkot
	Rose Onion	Bangalore (Urban) , Bangalore (Rural) , Kolar
Kerala	Flowers	Bangalore (Urban), Bangalore (Rural) , Kolar, Tumkur, Kodagu and Belgaum
	Vanilla	Dakshin Kannada, Uttara Kannada, Udupi, Shimoga, Kodagu, and Chickamagalur
	Horticultural Products	Thrissur, Ernakulam, Kottayam, Alappuzha, Pathanamthitta, Kollam, Thiruvananthapuram, Idukki and Pallakod
	Medicinal Plants	Wayanad, Mallapuram, Palakkad, Thrissur, Ernakulam, Idukki, Kollam, Pathanamittha and Thiruvananthapuram
	Potatoes, Onion and Garlic	Malwa, Ujjain, Indore, Dewas, Dhar, Shajapur, Ratlam, Nimach and Mandsaur
Madhya Pradesh	Seed spices	Guna, Mandsaur, Ujjain, Rajgarh, Ratlam, Shajapur and Neemuch
	Wheat	Ujjain, Neemuch, Ratlam, Mandsaur, Indore, Dhar, Shajapur, Dewas, Bhopal, Shehore, Vidisha, raisen, Hoshangabad, Harda and Narsinghpur
	Orange	Chhindwara, Hoshangabad and Betu
	Lentils & Grams	Shivpuri, Guna, Vidisha, Raisen, Narsinghpura and Chhindwara

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State	Focus products	Areas
Maharashtra	Grapes and Grapevine Alphonso Mango Kesar Mango Flowers Onions Pomegranate Banana Oranges Ginger and Turmeric Vegetables Potatoes Basmati Rice Coriander Cumin Flowers (Orchids) & Cherry Pepper Ginger Cashewnuts Flowers Flowers Mangoes Organic Pineapple Potatoes Mangoes and Vegetables Mangoes Basmati Rice	Nasik, Sangli, Pune, Satara, Ahmednagar and Sholapur Ratnagiri, Sindhudurg, Raigarh and Thane Aurangabad, Jalna, Beed, Latur, Ahmednagar and Nasik Pune, Nasik, Kolhapur and Sangli Nasik, Ahmednagar, Pune, Satara and Solapur Solapur, Sangli, Ahedabagar, Pune, Nasik, Osmanabad, Latur Jalgaon, Dhule, Nandurbar, Buldhana, Parbhani, Hindoli, Nanded and Wardha Nagpur and Amraoti Kandhamal Fatehgarh Sahib, Patiala, Sangrur, Ropar and Ludhiana Singhpura, Zirakpur (Patiala), Rampura Phul, Muktsar, Ludhiana, Jalandhar Amritsar, Gurdaspur, Kapurthala, Jalandhar, Hoshiarpur and Nawanshahr Kota, Bundi, Baran, Jhalawar and Chittoor Nagaur, Barmer, Jalore, Pali and Jodhpur East Sikkim North, East, South & West Sikkim Cuddalore, Thanjavur, Pudukottai and Sivaganga Dharamपुर Nilgiri Madhurai, Theni, Dindigul, Virudhunagar and Tirunelveli Kumarghat, Manu, Melaghar, Matabari and Kakraban Blocks Agra, Hathras, Farrukhabad, Kannoji, Merrut, aligarh and Bagpat Lucknow, Unnao, Hardoi, Sitapur and Barabanki Saharanpur, Muzafarnagar, Bijnaur, Merrut, Bhagpat and Bulandshahar Bareilly, Shahajahanpur, Pilibhit, Rampur, Badaun, Bijnor, Moradabad, J B Phulenagar, Saharanpur, ujafamagar, Merrut, Bulandsahar, Ghaziabad Udhamsingh Nagar, Nainital and Dehradun Dehradun and Pantnagar Udham Singh Nagar, Nainital, Dehradun and Haridwar Uttarkashi, Chamoli, Pithoragarh, Dehradun and Nainital Murshidabad, Malda, 24 Pargana s(N) and 24 Parganas (S) Hoogly, Burdwan, Midnapore (W), Uday Narayanpur and Howrah Malda and Murshidabad Nadia, Murshidabad and North 24 Parganas Darjeeling
Odisha		
Punjab		
Rajasthan		
Sikkim		
Tamil Nadu		
Tripura		
UttarPradesh		
Uttarakhand	Litchi Flowers Basmati rice Medicinal & Aromatic Plants Litchi Potatoes Mangoes Vegetable Darjeeling Tea	
West Bengal		

(Source: www.apeda.gov.in)

Table 2.8: Export of horticultural products from India (2006-07 to 2010-11)

Items	2006-07		2007-08		2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
(Quantity in tonnes; Value in ₹ Crore)										
Floriculture and Seeds										
Floriculture	42016.6	649.83	36240.7	34014.42	30798.3	36881.41	26814.5	29446.36	27776.1	28645.41
Fruits and vegetables seeds	8031.1	121.47	10157.1	14212.29	8535.5	11999.09	8883.8	14507.51	11182.5	17519.52
Total	50047.7	771.30	46397.8	48226.71	39333.8	4880.50	35698.3	4395.87	38958.6	46164.93
Fruits and vegetables										
Fresh onions	1378373.0	1163.31	1008606.0	103577.90	1670186.0	182752.20	1664922.0	231943.00	1163473.0	174155.40
Other fresh vegetables	275907.2	430.01	350235.5	48949.01	505285.5	68020.32	419241.4	73185.90	490914.1	89293.61
Dried nuts (Walnuts)	5062.1	118.03	0.07	162.08	0.06	141.24	9073.3	19789.51	5244.5	15650.59
Fresh mangoes	79060.9	141.94	54350.8	12741.76	83703.2	17071.25	74460.6	20053.98	59220.7	16292.13
Fresh grapes	85897.8	301.92	96963.5	31782.51	124628.0	40861.28	131153.6	54533.89	99311.8	41206.32
Other fresh fruits	159569.4	256.44	207700.8	30452.60	256768.5	43086.84	260675.4	52283.32	253851.0	48964.74
Total	1983871.0	2411.65	1717857.0	227665.90	2640571.0	351933.10	2550453.0	432000.10	2072015.0	385562.80
Processed fruits and vegetables										
Dried and preserved Vegetables	118787.5	424.06	125726.3	42993.81	147861.2	49641.51	124613.5	53207.48	110173.9	51697.09
Mango pulp	156835.5	505.83	166752.2	50968.51	173013.6	75298.90	186197.9	74460.77	171929.4	81400.66
Pickle and chutney	145216.0	293.59	145216.0	293.59	145216.0	293.59	-	-	-	-
Other processed fruits and vegetables	129110.1	508.14	311756.3	96281.65	387126.4	137179.00	397978.2	143550.60	340068.0	131635.50
Total	549949.0	1731.62	604234.7	190244.00	708001.2	262119.40	708789.5	271218.90	622171.3	264733.30
Grand Total	2583867.0	4914.57	2375206.0	482182.30	3393603.0	676915.40	3304015.0	766962.30	2733145.0	696461.00

(Source: www.indiastat.com)

Table 2.9: Percent export share of major horticultural crops

Produce / Product	Percent share of exports			
	2007-08	2008-09	2009-10	2010-11
Floriculture	7.1	5.4	3.8	4.1
Fruits & vegetable seeds	2.9	1.8	1.9	2.5
Fresh onions	21.5	27.0	30.2	25.0
Other fresh vegetables	10.2	10.0	9.5	12.8
Dried nuts (Walnuts)	3.4	2.1	2.6	2.2
Fresh mangoes	2.6	2.5	2.6	2.4
Fresh grapes	6.6	6.0	7.1	5.9
Other fresh fruits	6.3	6.4	6.8	7.0
Dried & preserved vegetables	8.9	7.3	6.9	7.4
Mango pulp	10.6	11.1	9.7	11.7
Other processed fruits & vegetables	20.0	20.3	18.7	18.9
Total (Horticulture)	100.0	100.0	100.0	100.0

(Source: Agricultural Research Data Book, 2011, IASRI)

Table 2.10: Progress under national horticulture mission (NHM) in India (2010-11)

Description	2005-06 to 2008-09	2009-10	2010-11
Nurseries (No.)	1905	201	2295
Area Coverage	12.79	2.96	18.96
Rejuvenation of Senile Orchards	2.09	0.37	3.25
Organic Farming	1.03	0.17	1.4
Integrated Pest Management/Integrated Nutrient Management	5.54	1.73	8.61
Pack House (No.)	662	153	2202
Cold Storage (No.)	97	157	367
Mobile/Primary Processing units (No.)	-	-	540
Markets (No.)	134	83	198
(a) Whole Sale	-	-	23
(b) Rural	-	-	175

(Source: www.indiastat.com)

Section-III

Vegetable Statistics at A Glance

Table 3.1: Area, production and yield of vegetables in world and India

Years	World				India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Seed (000't)	Area (Million ha)	Production (Million t)	Yield (t/ha)
1961	23.75	222.59	9.37	46.34	2.78	18.47	6.64
1962	23.47	222.61	9.49	50.91	3.06	19.28	6.30
1963	23.26	223.48	9.61	51.04	2.98	20.05	6.72
1964	23.01	226.38	9.84	48.02	3.05	20.77	6.81
1965	22.86	228.79	10.01	54.85	3.15	21.51	6.82
1966	22.91	236.96	10.34	50.23	3.20	22.40	7.01
1967	23.05	245.37	10.64	52.55	3.24	23.14	7.13
1968	23.04	251.80	10.93	58.26	3.30	23.93	7.25
1969	23.11	254.10	10.99	57.42	3.40	24.95	7.34
1970	22.63	250.97	11.09	50.39	3.49	25.99	7.45
1971	22.98	263.35	11.46	48.35	3.58	26.98	7.53
1972	23.17	260.70	11.25	49.26	3.70	28.06	7.59
1973	23.69	274.77	11.60	45.65	3.79	29.01	7.66
1974	23.83	282.05	11.84	50.04	3.85	30.02	7.79
1975	24.18	289.70	11.98	51.27	3.98	30.97	7.79
1976	24.11	291.98	12.11	51.56	4.00	32.01	8.01
1977	24.48	303.71	12.41	46.37	4.09	32.95	8.07
1978	25.55	321.24	12.57	43.94	4.25	33.99	8.00
1979	25.61	328.09	12.81	54.47	4.31	34.94	8.10
1980	25.70	325.63	12.67	60.28	4.35	35.98	8.27
1981	26.25	341.84	13.02	63.66	4.40	37.44	8.50
1982	27.13	360.23	13.28	65.91	4.53	38.97	8.61
1983	27.36	366.62	13.40	68.96	4.70	40.54	8.63
1984	28.10	393.75	14.01	58.12	4.73	41.99	8.88
1985	29.58	404.72	13.68	63.73	4.83	42.96	8.90
1986	30.46	427.05	14.02	69.26	4.96	44.54	8.99
1987	31.32	437.54	13.97	67.43	5.11	45.92	8.98
1988	31.49	446.41	14.18	70.28	4.84	47.01	9.71
1989	32.15	456.04	14.18	75.64	4.88	48.01	9.84
1990	31.76	466.67	14.69	76.75	4.79	48.94	10.21

Contd...

Years	World				India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Seed (000't)	Area (Million ha)	Production (Million t)	Yield (t/ha)
1991	32.16	469.19	14.59	74.23	4.86	49.97	10.27
1992	32.62	486.25	14.91	93.68	4.42	50.47	11.42
1993	34.25	516.98	15.09	95.44	4.71	52.96	11.24
1994	35.34	539.60	15.27	103.38	4.45	54.18	12.16
1995	38.02	571.04	15.02	109.11	5.62	56.53	10.05
1996	39.29	605.77	15.42	126.11	5.05	57.26	11.34
1997	39.77	618.11	15.54	121.56	4.95	54.11	10.94
1998	42.00	649.44	15.46	100.44	5.32	63.82	11.99
1999	44.49	707.46	15.90	108.29	5.47	70.98	12.97
2000	46.70	777.28	16.65	108.38	5.47	72.28	13.22
2001	47.95	804.99	16.79	111.50	6.02	78.90	13.10
2002	48.88	833.18	17.04	106.44	5.76	69.18	12.00
2003	51.51	863.52	16.76	101.26	7.18	79.04	11.02
2004	50.83	875.42	17.22	101.08	5.40	65.56	12.14
2005	51.86	898.42	17.32	96.20	5.84	71.45	12.23
2006	52.55	931.77	17.73	97.60	6.33	81.88	12.93
2007	52.46	962.34	18.34	102.64	6.56	87.98	13.41
2008	52.76	994.65	18.85	98.08	6.80	91.73	13.49
2009	54.01	1019.11	18.87	103.29	6.75	90.63	13.43
2010	55.60	1044.38	18.78	111.85	7.26	100.41	13.84
2011	56.69	1087.59	19.18	111.99	7.57	105.80	13.97
ACGR for last ten years (2002-2011)	1.36	2.97	1.59	0.83	2.54	4.93	2.33

Note: Vegetables include cabbage, cauliflower, okra, tomato, cucumber & gherkin, pumpkin, squash & gourds, eggplants, carrot & turnips, water melons, green peas, chilli & pepper green, beans, garlic, lettuce & chicory, onion dry, mushrooms and other melons. (Source: www.faostat.fao.org.in)

Table 3.2: Decade-wise annual compound growth rate (ACGRs) in area, production and yield of vegetables in the world.

Period	Annual compound growth rate (%)		
	Area	Production	Yield
1961-1970	-0.35	1.76	2.12
1971-1980	1.32	2.78	1.45
1981-1990	2.43	3.58	1.12
1991-2000	4.28	5.46	1.13
2001-2010	1.25	2.88	1.61

(Source: Calculated by the authors from FAO data)

Table 3.3: Continent-wise area, production and yield of vegetables

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
Africa			
1961	1.99	13.59	6.83
1962	2.00	14.28	7.14
1963	2.04	14.84	7.28
1964	2.12	15.31	7.20
1965	2.15	15.84	7.37
1966	2.21	16.41	7.44
1967	2.24	16.24	7.26
1968	2.31	16.88	7.30
1969	2.37	17.48	7.36
1970	2.50	18.02	7.21
1971	2.52	18.53	7.37
1972	2.58	18.70	7.24
1973	2.63	19.44	7.40
1974	2.66	20.54	7.71
1975	2.76	21.92	7.95
1976	2.82	22.29	7.91
1977	2.77	22.15	8.00
1978	2.79	22.40	8.02
1979	2.85	23.16	8.14
1980	2.90	23.98	8.26
1981	2.93	24.48	8.37
1982	2.98	24.80	8.33
1983	3.06	25.48	8.32
1984	3.19	26.62	8.35
1985	3.39	28.72	8.48
1986	3.51	30.99	8.82
1987	3.49	32.43	9.29
1988	3.54	31.40	8.87
1989	3.64	32.27	8.87
1990	3.84	33.59	8.74
1991	3.90	34.79	8.91
1992	4.03	35.97	8.94
1993	4.07	36.73	9.01
1994	4.47	38.38	8.58
1995	4.73	39.14	8.28
1996	5.44	43.47	7.99
1997	5.25	44.72	8.52
1998	5.48	46.12	8.42
1999	5.68	49.20	8.66

Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
2000	5.83	49.95	8.57
2001	5.49	49.59	9.03
2002	5.72	51.89	9.08
2003	5.95	55.97	9.41
2004	6.30	59.50	9.44
2005	6.36	60.41	9.50
2006	6.24	63.86	10.24
2007	6.16	64.06	10.41
2008	6.36	66.36	10.43
2009	6.70	68.80	10.27
2010	7.08	71.16	10.06
2011	6.81	67.85	9.96
ACGR for last ten years (2002-2011)	1.89	3.14	1.23
Asia			
1961	12.48	112.34	9.00
1962	12.30	112.02	9.11
1963	11.69	108.68	9.30
1964	11.36	105.26	9.27
1965	11.62	110.13	9.48
1966	11.60	112.11	9.67
1967	11.79	116.03	9.84
1968	11.81	122.31	10.35
1969	11.97	125.82	10.51
1970	11.19	118.14	10.55
1971	11.72	127.75	10.90
1972	11.76	125.23	10.65
1973	12.11	129.55	10.70
1974	12.23	133.27	10.89
1975	12.49	140.25	11.23
1976	12.54	143.68	11.45
1977	12.83	148.46	11.57
1978	13.55	159.26	11.75
1979	13.67	162.60	11.89
1980	13.80	162.79	11.79
1981	14.38	175.45	12.20
1982	15.17	185.19	12.21
1983	15.46	194.56	12.59
1984	15.90	209.67	13.19
1985	17.22	222.51	12.92
1986	18.11	243.24	13.43
			Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1987	18.62	250.67	13.46
1988	18.62	257.93	13.85
1989	19.02	262.56	13.81
1990	18.88	273.88	14.51
1991	19.12	273.98	14.33
1992	19.95	305.04	15.29
1993	21.68	331.94	15.31
1994	22.38	350.78	15.67
1995	24.62	376.98	15.31
1996	25.29	404.62	16.00
1997	25.96	415.62	16.01
1998	27.80	441.75	15.89
1999	29.77	483.98	16.26
2000	31.84	554.12	17.40
2001	33.68	583.81	17.34
2002	34.41	607.75	17.66
2003	36.56	626.64	17.14
2004	35.62	627.88	17.63
2005	36.75	655.49	17.84
2006	37.64	686.04	18.22
2007	37.91	720.82	19.01
2008	38.01	750.17	19.74
2009	38.84	765.67	19.72
2010	40.24	794.28	19.74
2011	41.64	836.57	20.09
ACGR for last ten years (2002-2011)	1.79	3.69	1.87
Australia			
1961	0.07	0.67	10.04
1962	0.07	0.68	10.30
1963	0.07	0.68	10.07
1964	0.06	0.71	11.18
1965	0.07	0.74	10.88
1966	0.07	0.82	11.64
1967	0.07	0.82	11.76
1968	0.07	0.82	11.26
1969	0.07	0.89	12.28
1970	0.07	0.83	12.70
1971	0.07	0.94	12.86
1972	0.07	0.93	12.66
1973	0.07	0.87	12.36
			Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1974	0.07	0.89	12.60
1975	0.07	0.89	12.74
1976	0.07	0.93	13.28
1977	0.07	0.97	14.48
1978	0.07	1.13	15.98
1979	0.07	0.99	14.89
1980	0.07	1.03	15.72
1981	0.07	1.04	15.64
1982	0.07	1.07	15.35
1983	0.07	1.14	16.44
1984	0.07	1.19	17.29
1985	0.07	1.27	18.13
1986	0.07	1.28	17.89
1987	0.07	1.35	18.48
1988	0.08	1.42	18.48
1989	0.08	1.50	18.72
1990	0.08	1.48	19.65
1991	0.07	1.53	20.66
1992	0.08	1.53	20.33
1993	0.07	1.44	19.30
1994	0.08	1.61	20.80
1995	0.08	1.64	20.76
1996	0.08	1.79	21.17
1997	0.08	1.77	20.82
1998	0.08	1.81	21.73
1999	0.08	1.80	21.56
2000	0.08	1.93	22.72
2001	0.08	2.08	24.61
2002	0.07	1.90	26.88
2003	0.08	1.77	23.02
2004	0.08	1.97	25.49
2005	0.07	1.89	25.28
2006	0.07	1.91	25.75
2007	0.07	1.88	26.66
2008	0.06	1.88	30.78
2009	0.06	1.93	30.12
2010	0.07	1.95	28.02
2011	0.07	1.79	24.35
ACGR for last ten years (2002-2011)	-1.18	-0.001	1.19

Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
Europe			
1961	6.25	66.44	10.63
1962	6.13	64.34	10.50
1963	6.53	68.93	10.55
1964	6.48	74.31	11.47
1965	6.09	70.32	11.56
1966	6.01	75.36	12.53
1967	5.86	78.18	13.35
1968	5.74	75.69	13.18
1969	5.72	76.28	13.34
1970	5.91	79.26	13.41
1971	5.68	79.62	14.03
1972	5.68	78.56	13.82
1973	5.81	87.45	15.05
1974	5.79	87.47	15.11
1975	5.78	85.63	14.82
1976	5.64	84.46	14.97
1977	5.75	89.24	15.51
1978	5.99	93.92	15.69
1979	5.86	94.80	16.18
1980	5.80	92.88	16.02
1981	5.82	95.97	16.48
1982	5.77	100.46	17.41
1983	5.73	99.00	17.28
1984	5.74	106.35	18.52
1985	5.65	102.02	18.04
1986	5.60	101.45	18.13
1987	5.83	100.67	17.25
1988	5.89	102.80	17.46
1989	5.94	103.08	17.37
1990	5.51	99.87	18.12
1991	5.59	100.72	18.02
1992	5.02	85.52	17.04
1993	4.94	87.38	17.68
1994	4.78	83.38	17.44
1995	4.98	87.27	17.52
1996	4.80	87.92	18.31
1997	4.80	87.00	18.11
1998	4.81	89.75	18.67
1999	4.99	94.75	19.00
2000	4.92	93.10	18.93
2001	4.73	92.54	19.55
			Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
2002	4.68	90.36	19.30
2003	4.85	96.37	19.87
2004	4.75	101.26	21.32
2005	4.60	98.49	21.42
2006	4.59	97.90	21.32
2007	4.32	90.85	21.03
2008	4.31	94.12	21.83
2009	4.30	99.05	23.01
2010	4.20	94.23	22.45
2011	4.26	99.59	23.40
ACGR for last ten years (2002-2011)	-1.57	0.24	1.84
North America			
1961	1.55	20.09	12.97
1962	1.53	21.12	13.84
1963	1.48	20.06	13.54
1964	1.49	19.92	13.40
1965	1.48	20.60	13.91
1966	1.54	20.69	13.44
1967	1.59	22.11	13.90
1968	1.62	24.21	14.98
1969	1.52	21.64	14.28
1970	1.46	22.14	15.15
1971	1.47	23.22	15.81
1972	1.49	23.45	15.72
1973	1.51	23.40	15.54
1974	1.51	24.96	16.51
1975	1.53	26.11	17.03
1976	1.48	25.40	17.18
1977	1.48	27.12	18.28
1978	1.55	27.27	17.65
1979	1.52	28.29	18.62
1980	1.42	26.31	18.52
1981	1.40	26.67	19.05
1982	1.41	29.12	20.68
1983	1.36	27.32	20.07
1984	1.40	29.30	20.98
1985	1.40	29.22	20.87
1986	1.32	28.50	21.57
1987	1.37	30.08	21.96
1988	1.38	29.14	21.04
			Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1989	1.44	32.63	22.68
1990	1.45	33.54	23.17
1991	1.43	33.27	23.30
1992	1.45	33.78	23.24
1993	1.42	34.11	24.02
1994	1.52	38.72	25.49
1995	1.50	37.28	24.80
1996	1.48	37.91	25.62
1997	1.44	38.00	26.41
1998	1.45	36.73	25.31
1999	1.50	41.38	27.54
2000	1.51	41.74	27.60
2001	1.46	39.26	26.93
2002	1.44	41.45	28.79
2003	1.43	40.35	28.14
2004	1.37	42.35	30.85
2005	1.34	39.44	29.40
2006	1.33	39.85	30.06
2007	1.30	41.10	31.65
2008	1.25	38.28	30.55
2009	1.26	39.67	31.43
2010	1.21	37.93	31.29
2011	1.16	36.93	31.74
ACGR for last ten years (2002-2011)	-2.24	-1.12	1.15
South America			
1961	1.03	6.91	6.69
1962	1.04	7.28	6.98
1963	1.04	7.30	7.04
1964	1.06	7.75	7.31
1965	1.05	7.81	7.41
1966	1.08	8.23	7.60
1967	1.10	8.49	7.74
1968	1.07	8.36	7.81
1969	1.06	8.49	7.99
1970	1.07	8.81	8.24
1971	1.07	8.92	8.37
1972	1.06	8.98	8.48
1973	1.04	9.02	8.70
1974	1.04	9.54	9.21
			Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1975	1.04	9.94	9.59
1976	1.04	10.24	9.87
1977	1.02	10.32	10.07
1978	1.04	10.98	10.55
1979	1.06	11.57	10.96
1980	1.06	11.76	11.06
1981	1.04	11.44	10.96
1982	1.09	12.19	11.24
1983	1.04	11.82	11.33
1984	1.10	12.39	11.21
1985	1.09	12.56	11.57
1986	1.11	12.89	11.64
1987	1.16	13.38	11.56
1988	1.16	14.12	12.12
1989	1.18	13.98	11.89
1990	1.14	14.33	12.57
1991	1.16	14.52	12.56
1992	1.14	14.31	12.55
1993	1.16	14.99	12.95
1994	1.23	16.45	13.33
1995	1.23	17.42	14.15
1996	1.27	17.71	13.98
1997	1.27	17.74	13.96
1998	1.30	18.56	14.29
1999	1.31	19.47	14.86
2000	1.32	19.06	14.39
2001	1.31	19.21	14.70
2002	1.32	21.09	15.93
2003	1.35	22.00	16.28
2004	1.38	21.70	15.69
2005	1.40	21.91	15.69
2006	1.41	22.15	15.72
2007	1.44	22.72	15.73
2008	1.42	22.88	16.07
2009	1.49	23.85	16.00
2010	1.50	24.45	16.25
2011	1.50	25.04	16.67
ACGR for last ten years (2002-2011)	1.43	1.80	0.35

(Source: www.faostat.fao.org.in)

Table 3.4: Major vegetables producing countries in the world (2010-11)

Country	Area (Million ha)	Production (Million t)	Productivity (t/ha)
China	24.05 (42.19%)	473.06 (46.74%)	22.5
India	8.50 (14.90%)	146.55 (14.48%)	17.3
USA	1.12 (1.95%)	35.29 (3.48)	31.4
Turkey	1.11 (1.94%)	25.83 (2.56)	23.7
Egypt	0.76 (1.32%)	19.52 (1.92)	25.7
Iran	0.71 (1.25%)	18.68 (1.85)	26.2
Italy	0.54 (0.95%)	13.05 (1.29)	25.1
Russian Fed	0.76 (1.32%)	13.23 (1.32)	17.4
Spain	0.34 (0.60%)	12.68 (1.25)	37.2
Mexico	0.66 (1.21%)	12.13 (1.19)	18.5
Others	18.46 (32.37%)	242.05 (23.92)	13.1
World	57.01 (100%)	1012.07 (100%)	18.8

(Source: NHB, National Horticulture Database 2011)

(Figures in parenthesis is percentage share to the world total)

Table 3.5: Area, production and yield of vegetables in leading vegetable growing countries.

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
China			
1961	5.76	59.05	10.26
1962	5.16	55.21	10.70
1963	4.48	49.04	10.96
1964	4.02	44.06	10.96
1965	4.09	46.67	11.42
1966	3.95	46.09	11.68
1967	3.95	47.02	11.90
1968	3.86	49.59	12.84
1969	3.83	51.31	13.39
1970	2.90	42.02	14.51
1971	3.20	46.78	14.62
1972	3.09	42.87	13.88
1973	3.39	47.81	14.10
1974	3.31	48.01	14.50
1975	3.43	49.77	14.49
1976	3.43	49.50	14.43
1977	3.60	52.00	14.45
1978	4.05	57.49	14.21
1979	4.01	58.15	14.50
1980	3.93	56.56	14.39

Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1981	4.26	64.77	15.20
1982	4.72	69.66	14.75
1983	4.98	78.46	15.76
1984	5.18	88.81	17.13
1985	6.06	96.15	15.86
1986	6.69	112.86	16.86
1987	7.10	118.44	16.68
1988	7.57	126.76	16.73
1989	7.73	128.55	16.63
1990	7.66	131.86	17.22
1991	7.94	135.06	17.01
1992	8.26	151.41	18.33
1993	9.81	177.16	18.05
1994	10.65	194.03	18.21
1995	11.30	209.20	18.51
1996	12.40	233.40	18.82
1997	13.28	250.40	18.86
1998	14.45	260.03	18.00
1999	16.02	289.54	18.08
2000	18.11	356.08	19.66
2001	19.31	379.56	19.66
2002	20.26	409.42	20.21
2003	20.80	416.91	20.05
2004	21.55	426.80	19.81
2005	21.97	442.82	20.16
2006	22.42	462.07	20.61
2007	22.30	487.08	21.85
2008	22.19	512.03	23.08
2009	22.74	522.72	22.98
2010	23.46	540.03	23.02
2011	24.28	561.74	23.14
ACGR for last ten years (2002-2011)	1.69	3.80	2.08
Egypt			
1961	0.22	3.72	16.61
1962	0.22	4.13	18.42
1963	0.25	4.55	18.38
1964	0.25	4.63	18.40
1965	0.26	4.86	18.72
1966	0.27	5.28	19.24
1967	0.27	4.80	17.72
Contd...			

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1968	0.29	5.14	17.70
1969	0.30	5.40	17.87
1970	0.29	5.20	17.86
1971	0.30	5.47	18.06
1972	0.30	5.40	18.04
1973	0.32	5.56	17.46
1974	0.33	6.06	18.18
1975	0.35	6.39	18.11
1976	0.37	6.74	18.43
1977	0.36	6.52	18.34
1978	0.36	6.79	19.10
1979	0.38	7.18	19.14
1980	0.38	7.40	19.50
1981	0.37	7.45	20.09
1982	0.37	7.53	20.36
1983	0.37	7.79	20.82
1984	0.37	7.96	21.44
1985	0.39	8.96	22.89
1986	0.44	10.16	23.18
1987	0.43	10.66	24.60
1988	0.43	9.55	22.11
1989	0.41	8.71	21.08
1990	0.39	9.25	23.72
1991	0.38	8.81	23.27
1992	0.37	9.33	25.15
1993	0.37	9.49	25.99
1994	0.38	9.73	25.72
1995	0.43	10.35	24.32
1996	0.46	11.85	25.77
1997	0.49	12.51	25.57
1998	0.52	12.55	24.25
1999	0.57	14.03	24.52
2000	0.62	14.90	23.88
2001	0.57	13.79	24.15
2002	0.59	14.42	24.27
2003	0.64	15.52	24.25
2004	0.62	15.94	25.57
2005	0.65	16.65	25.79
2006	0.71	18.24	25.81
2007	0.73	18.95	25.91
2008	0.75	19.71	26.44
2009	0.80	21.35	26.70
2010	0.78	19.49	25.14
2011	0.78	18.95	24.41
ACGR for last ten years (2002-2011)	3.36	3.74	0.36

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
	Iran		
1961	0.22	1.49	6.88
1962	0.23	1.60	6.93
1963	0.25	1.74	7.04
1964	0.26	1.81	7.10
1965	0.27	1.90	7.16
1966	0.27	2.03	7.38
1967	0.28	2.14	7.52
1968	0.29	2.25	7.69
1969	0.30	2.43	8.16
1970	0.30	2.50	8.27
1971	0.32	2.63	8.32
1972	0.34	2.77	8.11
1973	0.36	3.06	8.49
1974	0.38	3.28	8.72
1975	0.39	3.52	9.02
1976	0.40	3.78	9.36
1977	0.42	4.19	10.04
1978	0.42	4.62	10.90
1979	0.43	4.28	10.04
1980	0.45	5.00	11.13
1981	0.46	5.63	12.16
1982	0.50	6.57	13.09
1983	0.53	6.73	12.76
1984	0.54	7.39	13.57
1985	0.60	8.17	13.64
1986	0.66	9.08	13.66
1987	0.65	8.83	13.57
1988	0.41	6.13	14.93
1989	0.47	6.31	13.30
1990	0.65	10.39	16.05
1991	0.53	7.43	14.07
1992	0.62	9.84	15.91
1993	0.57	8.86	15.47
1994	0.44	7.83	17.94
1995	0.46	8.27	17.91
1996	0.56	10.73	19.12
1997	0.55	10.43	18.91
1998	0.63	12.21	19.23
1999	0.61	12.81	20.87
2000	0.56	11.66	21.00
			Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
2001	0.56	11.74	20.96
2002	0.61	13.85	22.82
2003	0.64	13.77	21.63
2004	0.63	14.85	23.43
2005	0.81	17.77	21.85
2006	0.70	17.61	25.24
2007	0.76	18.99	24.87
2008	0.61	15.87	26.10
2009	0.75	18.42	24.72
2010	0.77	20.00	26.05
2011	0.96	25.96	27.03
ACGR for last ten years (2002-2011)	3.37	5.66	2.21

Mexico

1961	0.21	1.25	5.96
1962	0.22	1.51	6.86
1963	0.22	1.55	6.97
1964	0.23	1.58	6.97
1965	0.21	1.78	8.47
1966	0.21	1.76	8.47
1967	0.20	1.81	8.99
1968	0.20	1.85	9.06
1969	0.20	1.85	9.03
1970	0.22	2.10	9.59
1971	0.24	2.56	10.58
1972	0.29	3.02	10.58
1973	0.29	3.01	10.52
1974	0.27	3.06	11.22
1975	0.24	2.68	11.04
1976	0.25	2.73	11.10
1977	0.28	3.25	11.47
1978	0.30	4.01	13.33
1979	0.32	4.36	13.70
1980	0.36	4.30	11.98
1981	0.31	3.95	12.53
1982	0.35	4.62	13.37
1983	0.32	4.47	13.99
1984	0.37	5.23	14.12
1985	0.42	5.27	12.56
1986	0.39	5.52	14.00
1987	0.42	5.69	13.71
1988	0.46	6.18	13.57
1989	0.48	6.49	13.40

Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1990	0.48	6.48	13.60
1991	0.50	6.85	13.73
1992	0.52	6.35	12.15
1993	0.50	6.59	13.19
1994	0.46	6.09	13.18
1995	0.46	6.90	14.87
1996	0.49	7.50	15.42
1997	0.53	8.58	16.09
1998	0.61	9.57	15.77
1999	0.67	10.89	16.31
2000	0.65	10.26	15.76
2001	0.66	10.95	16.66
2002	0.65	10.56	16.16
2003	0.67	11.15	16.72
2004	0.64	11.34	17.67
2005	0.66	11.19	17.05
2006	0.67	11.45	17.22
2007	0.64	12.12	18.91
2008	0.69	12.42	17.95
2009	0.69	11.73	17.10
2010	0.68	12.51	18.39
2011	0.67	11.91	17.72
ACGR for last ten years (2002-2011)	0.52	1.48	0.96
United States of America			
1961	1.45	18.95	13.02
1962	1.43	19.90	13.92
1963	1.39	18.93	13.65
1964	1.38	18.70	13.58
1965	1.37	19.30	14.07
1966	1.44	19.48	13.56
1967	1.49	20.90	14.05
1968	1.51	22.87	15.17
1969	1.41	20.45	14.48
1970	1.36	20.76	15.29
1971	1.37	21.88	15.93
1972	1.39	22.24	15.96
1973	1.40	22.02	15.70
1974	1.41	23.59	16.78
1975	1.42	24.59	17.27
1976	1.38	23.93	17.37
Contd...			

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1977	1.39	25.60	18.45
1978	1.45	25.61	17.72
1979	1.42	26.52	18.72
1980	1.32	24.66	18.68
1981	1.29	24.83	19.24
1982	1.29	27.17	21.00
1983	1.26	25.50	20.31
1984	1.28	27.25	21.22
1985	1.29	27.28	21.11
1986	1.22	26.70	21.85
1987	1.27	28.13	22.20
1988	1.27	27.19	21.44
1989	1.32	30.57	23.08
1990	1.34	31.37	23.47
1991	1.32	31.42	23.75
1992	1.35	31.88	23.67
1993	1.32	32.09	24.30
1994	1.41	36.47	25.79
1995	1.39	35.04	25.15
1996	1.37	35.60	26.07
1997	1.33	35.71	26.92
1998	1.34	34.35	25.61
1999	1.39	38.97	28.02
2000	1.40	39.44	28.12
2001	1.34	36.93	27.46
2002	1.33	39.05	29.44
2003	1.32	37.88	28.75
2004	1.26	39.80	31.53
2005	1.24	36.97	29.83
2006	1.23	37.30	30.39
2007	1.19	38.51	32.26
2008	1.16	35.86	30.97
2009	1.17	37.29	31.96
2010	1.12	35.61	31.80
2011	1.08	34.67	32.21
ACGR for last ten years (2002-2011)	-2.18	-1.14	1.07
Turkey			
1961	0.55	6.62	12.08
1962	0.54	6.86	12.80
1963	0.53	7.12	13.43
1964	0.54	7.55	13.88
Contd...			

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1965	0.54	7.61	14.06
1966	0.55	7.69	13.86
1967	0.56	7.89	14.08
1968	0.55	8.14	14.73
1969	0.59	8.60	14.51
1970	0.63	9.17	14.64
1971	0.63	9.23	14.59
1972	0.65	9.56	14.72
1973	0.62	8.87	14.25
1974	0.65	9.59	14.75
1975	0.66	10.29	15.60
1976	0.68	11.42	16.91
1977	0.68	11.05	16.19
1978	0.72	12.01	16.76
1979	0.73	13.65	18.76
1980	0.73	13.03	17.96
1981	0.79	13.34	16.91
1982	0.76	13.52	17.67
1983	0.76	13.72	18.00
1984	0.76	14.54	19.01
1985	0.81	16.60	20.62
1986	0.78	16.20	20.71
1987	0.77	16.59	21.41
1988	0.78	16.86	21.61
1989	0.79	16.71	21.09
1990	0.79	18.08	22.98
1991	0.83	19.11	22.96
1992	0.88	19.24	21.83
1993	0.80	18.53	23.09
1994	0.85	19.59	22.97
1995	0.94	21.87	23.37
1996	0.93	22.20	23.92
1997	0.93	20.97	22.67
1998	0.96	23.50	24.54
1999	1.02	24.60	24.22
2000	1.00	24.61	24.62
2001	1.01	24.17	24.00
2002	1.06	25.83	24.32
2003	1.05	25.91	24.60
2004	1.03	25.27	24.44
2005	1.07	26.36	24.67
			Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
2006	0.99	25.74	26.08
2007	1.00	25.58	25.58
2008	1.09	27.14	24.97
2009	1.13	26.70	23.59
2010	1.09	25.90	23.77
2011	1.03	27.41	26.72
ACGR for last ten years (2002-2011)	0.27	0.54	0.27
Spain			
1961	0.34	6.06	17.58
1962	0.35	5.94	16.95
1963	0.36	6.24	17.22
1964	0.38	6.33	16.89
1965	0.36	6.04	16.58
1966	0.37	6.04	16.31
1967	0.38	6.16	16.41
1968	0.39	6.30	16.21
1969	0.37	6.25	16.74
1970	0.40	6.51	16.21
1971	0.41	6.78	16.55
1972	0.41	6.98	16.86
1973	0.45	7.53	16.71
1974	0.47	7.98	16.92
1975	0.47	8.23	17.42
1976	0.47	7.92	16.95
1977	0.47	8.53	18.25
1978	0.47	8.42	17.81
1979	0.47	8.50	18.09
1980	0.45	8.54	18.79
1981	0.46	8.60	18.55
1982	0.46	8.93	19.35
1983	0.46	8.73	19.08
1984	0.48	9.32	19.35
1985	0.48	9.53	20.04
1986	0.47	9.60	20.54
1987	0.47	9.81	20.75
1988	0.50	10.40	20.94
1989	0.51	10.98	21.69
1990	0.50	11.51	22.96
1991	0.47	10.59	22.33
1992	0.46	10.52	23.11
			Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1993	0.43	10.21	23.85
1994	0.42	10.57	25.06
1995	0.39	10.33	26.36
1996	0.39	11.21	28.57
1997	0.39	11.48	29.38
1998	0.39	11.84	30.51
1999	0.40	12.50	31.42
2000	0.39	12.19	31.35
2001	0.38	12.28	31.93
2002	0.38	12.76	33.45
2003	0.38	12.81	33.67
2004	0.40	13.41	33.65
2005	0.39	13.39	34.09
2006	0.38	12.88	33.86
2007	0.36	13.07	36.24
2008	0.35	12.61	35.74
2009	0.35	13.46	37.99
2010	0.35	12.68	36.43
2011	0.34	12.41	36.86
ACGR for last ten years (2002-2011)	-1.63	-0.28	1.37
Italy			
1961	0.60	9.29	15.38
1962	0.61	8.85	14.43
1963	0.63	9.97	15.77
1964	0.63	10.44	16.56
1965	0.64	10.75	16.69
1966	0.66	11.25	17.01
1967	0.67	11.51	17.24
1968	0.67	11.34	16.96
1969	0.67	12.13	18.19
1970	0.67	12.13	18.16
1971	0.63	11.82	18.70
1972	0.61	11.36	18.60
1973	0.60	11.49	19.31
1974	0.60	12.31	20.49
1975	0.60	12.40	20.76
1976	0.58	11.79	20.26
1977	0.59	12.12	20.63
1978	0.60	12.43	20.69
1979	0.61	13.50	21.96
			Contd...

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1980	0.61	13.43	22.09
1981	0.60	13.27	22.26
1982	0.62	13.17	21.36
1983	0.63	14.87	23.42
1984	0.64	15.36	23.98
1985	0.63	15.22	24.15
1986	0.61	14.83	24.35
1987	0.59	13.60	22.87
1988	0.61	13.40	22.12
1989	0.63	14.53	23.24
1990	0.62	14.14	22.80
1991	0.63	14.64	23.42
1992	0.61	14.54	23.66
1993	0.61	14.13	23.32
1994	0.60	14.33	23.94
1995	0.59	13.81	23.42
1996	0.60	15.19	25.39
1997	0.59	14.33	24.21
1998	0.60	14.78	24.66
1999	0.61	15.67	25.84
2000	0.61	16.52	27.20
2001	0.59	14.88	25.43
2002	0.58	13.86	23.71
2003	0.60	15.04	25.21
2004	0.60	16.47	27.63
2005	0.59	15.83	26.68
2006	0.57	14.73	25.78
2007	0.57	14.68	25.74
2008	0.53	13.97	26.47
2009	0.54	15.08	28.10
2010	0.54	14.20	26.45
2011	0.47	13.29	28.02
ACGR for last ten years (2002-2011)	-2.10	-0.97	1.16
Russia			
1992	0.82	10.71	13.06
1993	0.79	10.40	13.21
1994	0.81	10.06	12.49
1995	0.83	11.82	14.21
1996	0.81	11.17	13.85
1997	0.82	11.77	14.42
Contd...			

Years	Area (Million ha)	Production (Million t)	Yield (t/ha)
1998	0.76	10.98	14.45
1999	0.87	12.48	14.38
2000	0.87	12.45	14.30
2001	0.87	13.26	15.23
2002	0.89	13.03	14.58
2003	0.95	14.78	15.57
2004	0.94	14.81	15.68
2005	0.93	16.13	17.37
2006	0.88	16.63	18.95
2007	0.72	12.37	17.15
2008	0.77	14.35	18.69
2009	0.77	14.83	19.37
2010	0.76	13.28	17.50
2011	0.84	16.28	19.41
ACGR for last ten years (2002-2011)	-2.37	0.37	2.81

(Source: www.faostat.fao.org)

Table 3.6: Area, production and yield of vegetables in SAARC countries.

Years	Area (000'ha)	Production (000't)	Yield (t/ha)
Afghanistan			
1961	85.00	370.00	4.35
1962	85.00	385.00	4.53
1963	85.00	408.00	4.80
1964	90.00	431.00	4.79
1965	96.00	448.00	4.67
1966	95.00	454.00	4.78
1967	85.70	491.00	5.73
1968	76.00	504.00	6.63
1969	76.60	517.00	6.75
1970	76.40	482.00	6.31
1971	76.00	558.00	7.34
1972	76.80	500.00	6.51
1973	76.00	515.00	6.78
1974	78.10	518.00	6.63
1975	75.00	525.50	7.01
1976	119.20	564.20	4.73
1977	76.00	460.00	6.05
1978	75.80	516.00	6.81
1979	74.40	523.00	7.03
1980	71.40	512.00	7.17
			Contd...

Years	Area (000'ha)	Production (000't)	Yield (t/ha)
1981	69.70	514.00	7.37
1982	71.70	529.00	7.38
1983	69.20	522.00	7.54
1984	66.10	503.00	7.61
1985	64.40	488.00	7.58
1986	56.80	441.00	7.76
1987	57.00	454.00	7.96
1988	56.40	448.00	7.94
1989	52.50	420.00	8.00
1990	54.68	490.00	8.96
1991	52.50	488.00	9.30
1992	53.72	492.40	9.17
1993	55.63	513.53	9.23
1994	55.14	508.03	9.21
1995	57.75	553.42	9.58
1996	60.92	590.09	9.69
1997	62.13	613.73	9.88
1998	65.12	657.74	10.10
1999	65.96	685.38	10.39
2000	63.27	707.73	11.19
2001	73.11	836.79	11.45
2002	69.81	686.42	9.83
2003	98.25	837.32	8.52
2004	60.47	696.21	11.51
2005	102.88	968.79	9.42
2006	90.84	847.65	9.33
2007	90.70	909.47	10.03
2008	90.42	875.11	9.68
2009	99.98	964.02	9.64
2010	96.89	968.28	9.99
2011	78.41	934.56	11.92
ACGR for last ten years (2002-2011)	1.88	3.19	1.29
Bangladesh			
1961	163.15	906.50	5.56
1962	156.35	879.20	5.62
1963	169.00	907.90	5.37
1964	170.40	938.20	5.51
1965	170.85	1005.70	5.89
1966	172.28	1126.32	6.54
1967	181.88	1210.95	6.66
Contd...			

Years	Area (000'ha)	Production (000't)	Yield (t/ha)
1968	184.55	1270.43	6.88
1969	175.07	1239.21	7.08
1970	177.82	1262.17	7.10
1971	177.06	1243.39	7.02
1972	155.71	1041.17	6.69
1973	155.94	979.89	6.28
1974	158.79	978.85	6.16
1975	167.16	1095.14	6.55
1976	170.89	1060.94	6.21
1977	166.92	1002.22	6.00
1978	171.72	1061.84	6.18
1979	173.57	1071.56	6.17
1980	177.43	1081.79	6.10
1981	176.88	1044.59	5.91
1982	186.55	1117.39	5.99
1983	193.12	1175.63	6.09
1984	195.73	1205.35	6.16
1985	196.82	1197.43	6.08
1986	199.45	1200.08	6.02
1987	201.57	1199.25	5.95
1988	208.36	1251.34	6.01
1989	217.61	1264.97	5.81
1990	212.80	1346.14	6.33
1991	230.91	1383.65	5.99
1992	232.49	1393.70	5.99
1993	237.12	1415.25	5.97
1994	240.18	1452.88	6.05
1995	243.41	1485.83	6.10
1996	249.69	1507.25	6.04
1997	252.01	1559.37	6.19
1998	257.10	1571.61	6.11
1999	316.51	1785.00	5.64
2000	300.28	1802.00	6.00
2001	301.56	1795.00	5.95
2002	306.79	1831.00	5.97
2003	311.37	1828.20	5.87
2004	344.36	2097.64	6.09
2005	389.38	2567.78	6.59
2006	422.24	2904.85	6.88
2007	453.01	3197.01	7.06
2008	477.03	3472.54	7.28
			Contd...

Years	Area (000'ha)	Production (000't)	Yield (t/ha)
2009	466.19	3420.76	7.34
2010	487.92	3661.11	7.50
2011	519.74	4189.15	8.06
ACGR for last ten years (2002-2011)	6.30	10.02	3.50
Bhutan			
1961	2.30	8.00	3.48
1962	2.32	8.10	3.49
1963	2.34	8.20	3.50
1964	2.36	8.30	3.52
1965	2.38	8.40	3.53
1966	2.40	8.50	3.54
1967	2.42	8.60	3.55
1968	2.44	8.70	3.57
1969	2.46	8.80	3.58
1970	2.48	8.90	3.59
1971	2.50	9.00	3.60
1972	2.50	9.10	3.64
1973	2.53	9.20	3.64
1974	2.55	9.30	3.65
1975	2.57	9.40	3.66
1976	2.58	9.50	3.68
1977	2.59	9.60	3.71
1978	2.60	9.70	3.73
1979	2.61	9.80	3.75
1980	2.62	9.90	3.78
1981	3.10	12.20	3.94
1982	2.90	9.60	3.31
1983	2.20	6.90	3.14
1984	1.71	5.39	3.15
1985	2.10	7.00	3.33
1986	2.60	8.70	3.35
1987	2.80	11.20	4.00
1988	2.63	8.80	3.35
1989	2.70	8.80	3.26
1990	3.23	10.14	3.14
1991	2.83	9.21	3.25
1992	2.98	10.19	3.42
1993	3.11	10.28	3.30
1994	3.12	10.56	3.38
1995	4.03	11.22	2.79
			Contd...

Years	Area (000'ha)	Production (000't)	Yield (t/ha)
1996	4.44	8.96	2.02
1997	4.35	8.72	2.01
1998	4.84	8.26	1.71
1999	5.17	8.30	1.60
2000	2.14	5.82	2.72
2001	2.35	5.65	2.40
2002	2.52	6.59	2.62
2003	3.55	10.08	2.84
2004	3.83	14.28	3.73
2005	6.10	25.58	4.19
2006	7.93	33.23	4.19
2007	7.27	26.95	3.71
2008	6.62	21.31	3.22
2009	7.23	24.94	3.45
2010	6.70	20.62	3.08
2011	7.07	21.48	3.04
ACGR for last ten years (2002-2011)	10.91	11.31	0.36
Nepal			
1961	13.87	90.00	6.49
1962	15.45	100.00	6.47
1963	16.95	110.00	6.49
1964	18.50	120.00	6.49
1965	20.00	130.00	6.50
1966	19.25	125.00	6.49
1967	20.79	135.00	6.49
1968	24.63	160.00	6.50
1969	27.70	180.00	6.50
1970	28.48	185.00	6.50
1971	30.75	200.00	6.50
1972	31.00	200.00	6.45
1973	31.00	200.00	6.45
1974	38.00	250.00	6.58
1975	45.00	300.00	6.67
1976	45.00	300.00	6.67
1977	59.00	400.00	6.78
1978	59.00	400.00	6.78
1979	71.00	500.00	7.04
1980	72.00	500.00	6.94
1981	76.00	550.00	7.24
1982	76.00	550.00	7.24
			Contd...

Years	Area (000'ha)	Production (000't)	Yield (t/ha)
1983	90.00	672.00	7.47
1984	95.00	700.00	7.37
1985	100.00	742.00	7.42
1986	100.00	774.00	7.74
1987	110.00	875.34	7.96
1988	110.00	875.00	7.95
1989	120.00	922.00	7.68
1990	125.00	993.56	7.95
1991	128.12	970.20	7.57
1992	140.00	1128.00	8.06
1993	145.00	1197.00	8.26
1994	150.00	1197.00	7.98
1995	140.50	1256.85	8.95
1996	144.37	1327.29	9.19
1997	146.50	1357.44	9.27
1998	151.48	1418.61	9.37
1999	143.01	1351.79	9.45
2000	153.56	1505.21	9.80
2001	163.00	1674.84	10.28
2002	167.49	1762.30	10.52
2003	173.27	1835.71	10.59
2004	180.27	1933.35	10.72
2005	189.04	2109.43	11.16
2006	198.48	2236.60	11.27
2007	208.14	2379.83	11.43
2008	229.70	2607.68	11.35
2009	236.61	2818.95	11.91
2010	247.17	3077.09	12.45
2011	258.28	3320.02	12.85
ACGR for last ten years (2002-2011)	5.21	7.48	2.16
Pakistan			
1961	134.80	849.70	6.30
1962	133.90	917.80	6.85
1963	138.00	869.10	6.30
1964	135.20	922.60	6.82
1965	123.00	909.10	7.39
1966	138.70	1055.30	7.61
1967	129.03	1176.40	9.12
1968	157.00	1825.60	11.63
1969	137.16	1548.77	11.29
Contd...			

Years	Area (000'ha)	Production (000't)	Yield (t/ha)
1970	124.76	1516.86	12.16
1971	136.73	1661.50	12.15
1972	148.60	1834.64	12.35
1973	146.65	1872.21	12.77
1974	161.07	1979.59	12.29
1975	165.83	2028.01	12.23
1976	153.64	1863.41	12.13
1977	140.19	1674.95	11.95
1978	153.98	1817.85	11.81
1979	170.08	2014.62	11.85
1980	151.91	1697.79	11.18
1981	162.35	1859.03	11.45
1982	162.25	1897.93	11.70
1983	178.63	2052.31	11.49
1984	187.63	2218.81	11.83
1985	188.46	2217.39	11.77
1986	201.27	2412.70	11.99
1987	227.76	2814.14	12.36
1988	238.37	2924.94	12.27
1989	247.32	3124.56	12.63
1990	255.81	3236.58	12.65
1991	256.58	3218.68	12.54
1992	268.11	3423.93	12.77
1993	278.64	3592.22	12.89
1994	291.37	3787.37	13.00
1995	304.56	4060.75	13.33
1996	318.10	4370.57	13.74
1997	327.19	4504.35	13.77
1998	332.17	4480.70	13.49
1999	338.87	4581.68	13.52
2000	356.99	4861.00	13.62
2001	344.45	4636.27	13.46
2002	346.80	4542.55	13.10
2003	351.69	4572.26	13.00
2004	366.91	4744.40	12.93
2005	385.29	5031.83	13.06
2006	421.13	5433.74	12.90
2007	405.28	5164.93	12.74
2008	434.76	5481.03	12.61
2009	414.85	5268.77	12.70
2010	400.54	5063.58	12.64
2011	432.14	5456.86	12.63
ACGR for last ten years (2002-2011)	2.35	1.89	-0.44

Contd...

Years	Area (000'ha)	Production (000't)	Yield (t/ha)
Sri Lanka			
1961	41.36	161.96	3.92
1962	38.22	128.03	3.35
1963	47.64	159.51	3.35
1964	46.84	182.05	3.89
1965	56.47	180.08	3.19
1966	51.44	147.71	2.87
1967	56.89	146.20	2.57
1968	57.41	148.34	2.58
1969	55.63	148.22	2.66
1970	49.37	177.21	3.59
1971	52.59	182.84	3.48
1972	64.48	184.02	2.85
1973	76.06	201.25	2.65
1974	85.11	204.75	2.41
1975	95.25	314.38	3.30
1976	98.26	309.47	3.15
1977	91.91	295.60	3.22
1978	89.23	276.35	3.10
1979	77.96	403.74	5.18
1980	80.97	426.87	5.27
1981	87.39	397.82	4.55
1982	80.32	343.87	4.28
1983	85.47	537.73	6.29
1984	84.83	647.15	7.63
1985	81.85	571.21	6.98
1986	87.55	627.02	7.16
1987	77.07	562.95	7.30
1988	83.51	675.13	8.08
1989	77.07	571.04	7.41
1990	83.41	593.59	7.12
1991	79.02	562.10	7.11
1992	82.47	586.39	7.11
1993	86.72	582.50	6.72
1994	90.33	592.74	6.56
1995	90.97	604.48	6.64
1996	85.69	550.38	6.42
1997	82.80	550.55	6.65
1998	77.13	525.70	6.82
1999	83.98	625.20	7.44
2000	78.61	579.41	7.37
			Contd...

Years	Area (000'ha)	Production (000't)	Yield (t/ha)
2001	73.13	529.14	7.24
2002	71.96	530.40	7.37
2003	75.22	526.13	7.00
2004	69.92	561.72	8.03
2005	80.78	642.55	7.95
2006	81.22	674.17	8.30
2007	78.79	720.58	9.15
2008	78.42	723.31	9.22
2009	77.02	732.24	9.51
2010	75.95	733.40	9.66
2011	78.15	758.69	9.71
ACGR for last ten years (2002-2011)	0.72	4.52	3.78

(Source: www.faostat.fao.org)

Table 3.7:Year-wise area,production and productivity of vegetables in India

Year	Area (000'ha)	Production (000't)	Productivity (t/ha)
1987-1988	4120	48927	11.9
1991-1992	5593	58532	10.5
1992-1993	5045	63806	12.6
1993-1994	4876	65787	13.5
1994-1995	5013	67286	13.4
1995-1996	5335	71594	13.4
1996-1997	5515	75074	13.6
1997-1998	5607	72683	13
1998-1999	5873	87536	14.9
1999-2000	5991	90823	15.2
2000-2001	6250	93849	15
2001-2002	6156	88622	14.4
2002-2003	6092	84815	13.9
2003-2004	6082	88334	14.5
2004-2005	6744	101246	15
2005-2006	7213	111399	15.4
2006-2007	7581	114993	15.2
2007-2008	7848	128449	16.4
2008-2009	7981	129077	16.2
2009-2010	7985	133738	16.7
2010-2011	8495	146555	17.3
ACGR	3.72%	5.62%	1.86%

(Source: www.indiastat.com)

Table 3.8: State-wise area production and productivity of vegetables in India

States/UTs	Area (000'ha)		Production (000't)		Productivity (t/ha)	
	2009-10	2010-11	2009-10	2010-11	2009-10	2010-11
West Bengal	1302.7	1349.7	22704.3	21907.0	16.8	19.8
Uttar Pradesh	1020.1	829.4	18950.1	22436.0	22.0	21.3
Bihar	836.0	845.0	13385.7	13907.0	16.6	17.3
Andhra Pradesh	331.3	651.2	5267.5	5426.2	16.4	18.2
Gujarat	406.8	515.9	6807.1	7255.5	17.8	18.2
Karnataka	441.2	466.3	7724.9	7082.2	16.1	19.4
Tamil Nadu	263.7	277.3	8693.5	7627.7	28.9	29.9
Odisha	694.2	553.8	8467.4	8963.6	12.9	14.1
Maharashtra	451.8	611.0	6368.0	6172.6	13.7	12.3
Haryana	300.9	346.4	3893.4	3987.0	13.3	13.4
Chhattisgarh	315.4	345.8	3041.0	3601.1	11.4	12.3
Jharkhand	212.1	259.5	3637.0	3469.2	16.4	15.8
Madhya Pradesh	250.7	283.7	4105.8	3112.6	12.4	13.0
Punjab	183.3	174.1	3410.3	3522.5	19.2	20.6
Kerala	151.6	149.5	3509.4	3518.1	23.2	22.7
Assam	255.2	260.1	2916.7	4569.9	17.9	11.2
Jammu and Kashmir	69.8	69.7	1023.6	1374.2	19.7	22.4
Himachal Pradesh	79.8	80.4	1263.9	1390.7	17.4	18.3
Uttarakhand	82.6	85.8	1077.6	997.3	12.1	12.0
Rajasthan	131.9	140.3	736.7	1071.9	8.1	6.3
Tripura	32.5	36.0	294.7	446.9	13.7	14.8
Delhi	36.1	29.8	617.4	617.4	17.1	16.7
Meghalaya	44.3	41.8	415.8	415.8	9.4	8.5
Manipur	19.9	22.2	174.3	221.8	11.2	10.7
Sikkim	28.7	23.9	98.0	147.7	5.1	5.1
Mizoram	10.6	17.5	114.4	179.1	16.9	6.6
Nagaland	10.4	10.7	78.3	78.3	7.5	7.4
Goa	5.7	5.7	57.6	57.8	10.1	10.1
Arunachal Pradesh	4.2	4.2	110	38.5	9.1	9.2
Andaman and Nicobar Islands	5.2	5.7	30.8	41.5	8.0	6.1
Lakshadweep	0.4	0.4	14.1	14.1	31.7	35.3
Puducherry	4.5	0.6	81.0	81.0	18.2	14.7
Dadra and Nagar Haveli	1.0	1.1	4.5	4.5	4.6	5.0
Chandigarh	0.1	0.1	1.7	1.7	17.0	17.0
Daman and Diu	0.2	0.0	0.2	0.2	1.2	-
India	7984.8	8494.6	106372.5	133738.0	16.7	17.3

(Source: www.indiastat.com)

Table 3.9: Area, production and productivity of major vegetables in India

Vegetables	2001-02			2002-03			2003-04			2004-05			2005-06		
	A	Pdn	Py	A	Pdn	Py	A	Pdn	Py	A	Pdn	Py	A	Pdn	Py
Potato	1260	24456	19.4	1337	23161	17.3	1485	27926	18.8	1524	28788	18.9	1569	29175	18.6
Tomato	458	7462	16.3	479	7617	15.9	503	8126	16.2	505	8825	17.5	546	9820	18.0
Onion	496	5252	10.6	425	4210	9.9	554	6268	11.3	614	7761	12.6	704	9433	13.4
Brinjal	502	8347	16.6	507	8001	15.8	516	8477	16.4	527	8601	16.3	560	9365	16.7
Tapioca	239	6516	27.3	207	5426	26.2	220	5950	27.0	245	7463	30.5	245	7855	32.1
Cabbage	258	5678	22.0	234	5392	23.1	255	5595	21.9	288	6114	21.2	254	5637	22.2
Cauliflower	270	4891	18.1	255	4444	17.5	268	4940	18.4	239	4515	18.9	289	5323	18.4
Okra	347	3325	9.6	329	3245	9.9	353	3631	10.3	357	3512	9.8	392	3975	10.1
Peas	303	2038	6.7	305	2062	6.8	285	1901	6.7	276	1945	7.0	286	2270	7.9
Sweet Potato	132	1130	8.6	132	1130	8.6	133	1179	8.9	133	1179	8.8	123	1067	8.7
Others	1891	19527	-	1882	20127	-	1737	19172	-	2036	22543	-	2196	25130	-
Total	6156	88622	14.4	6092	84815	13.9	6309	93165	14.5	6744	101246	15.0	7164	109050	15.4

Table continues

Vegetables	2006-07			2007-08			2008-09			2009-10			2010-11		
	A	Pdn	Py	A	Pdn	Py	A	Pdn	Py	A	Pdn	Py	A	Pdn	Py
Potato	1743	28600	16.4	1786	34463	19.3	1828	34391	18.8	1835	36577	19.9	1863	42339	22.7
Tomato	596	10055	16.9	572	10261	17.9	599	11149	18.6	634	12433	19.6	865	16826	19.5
Onion	768	10847	14.1	805	12157	15.1	834	13565	16.3	756	12159	16.1	1064	15118	14.2
Brinjal	568	9453	16.6	566	9596	17.0	600	10378	17.3	590	10165	17.2	680	11896	17.5
Tapioca	256	8232	32.2	270	9054	33.5	280	9623	34.3	232	8060	34.8	221	8076	36.5
Cabbage	250	5589	22.4	265	5888	22.2	310	6870	22.1	331	7281	22.0	369	7949	21.5
Cauliflower	311	5579	18.0	321	5797	18.1	349	6532	18.7	338	6410	19.0	369	6745	18.3
Okra	396	4070	10.3	409	4193	10.3	432	4528	10.5	452	4803	10.6	498	5784	11.6
Peas	298	2402	8.1	314	2560	8.2	348	2916	8.4	365	3029	8.3	370	3517	9.5
Sweet Potato	123	1067	8.7	126	1146	9.1	124	1120	9.0	119	1095	9.2	113	1047	9.3
Others	2277	29117	12.8	2370	30774	13.0	2275	28006	12.3	2332	31724	13.6	2083	27557	13.2
Total	7584	115012	15.2	7803	125887	16.1	7981	129077	16.2	7985	133738	16.7	8495	146554	17.3

(Source: NHB, National Horticulture Database, 2011)

Table 3.10: State and crop-wise area and production of vegetables in 2010-11

[Area (A) in 000' ha and Production (Pdn) in 000't]

States	Brinjal		Cabbage		Cauliflower		Okra		Peas		Sweet Potato		Tapioca		Tomato		Total	
	A	Pdn	A	Pdn	A	Pdn	A	Pdn	A	Pdn	A	Pdn	A	Pdn	A	Pdn	A	Pdn
Chhattisgarh	26.7	439.5	14.7	257.7	18.4	306.0	25.2	249.1	10.8	99.7	3.7	36.7	-	-	42.9	627.9	345.8	4248.8
D & N Haveli	0.5	2.2	-	-	-	-	-	-	-	-	-	-	-	-	0.4	1.8	1.1	5.5
Delhi	1.6	30.7	-	-	5.1	94.8	1.6	22.7	0.8	11.1	-	-	-	-	1.6	31.0	29.8	496.8
Gujarat	72.0	1236.3	28.2	553.6	21.1	387.4	54.5	592.5	-	-	-	-	-	-	38.8	978.4	515.9	9379.5
Haryana	14.6	255.2	13.8	262.4	30.3	531.9	18.2	145.3	12.7	79.0	-	-	-	-	27.2	392.4	346.4	4649.3
Himachal Pradesh	1.0	25.1	4.5	144.2	3.0	60.7	2.4	29.6	22.8	254.2	-	-	-	-	9.9	388.4	80.4	1474.9
Jammu & Kashmir	2.6	45.3	3.5	95.5	4.5	134.8	2.9	47.5	6.8	212.5	-	-	-	-	8.3	136.6	69.7	1559.1
Jharkhand	16.4	212.6	27.0	451.7	22.2	355.4	30.0	421.7	21.3	329.1	-	-	-	-	22.3	401.6	259.5	4112.4
Karnataka	14.2	354.5	9.4	187.2	4.5	77.4	8.6	71.4	1.2	15.4	2.6	33.5	0.9	12.3	51.2	1756.7	466.3	9056.4
Kerala	-	-	-	-	-	-	-	-	-	-	0.3	4.9	72.3	2409.0	-	-	149.5	3392.7
M.P.	23.4	281.0	9.0	179.5	12.2	195.9	10.1	60.3	22.8	251.3	5.1	29.7	-	-	27.8	346.9	283.7	3698.6
Maharashtra	35.0	490.0	18.0	360.0	12.0	180.0	19.0	224.0	8.0	35.0	-	-	-	-	52.0	738.0	611.0	7504.0
Manipur	-	-	5.8	74.7	2.4	23.8	-	-	4.7	46.5	-	-	-	-	2.3	28.6	22.2	236.5
Meghalaya	-	-	-	-	-	-	-	-	-	-	5.5	19.2	4.9	26.4	-	-	41.8	356.5
Mizoram	2.0	12.9	2.6	33.6	0.4	3.7	2.8	18.7	0.5	2.0	0.1	0.7	0.1	0.7	0.7	6.2	17.5	115.6
Nagaland	0.1	2.2	0.3	3.0	0.1	0.2	0.3	1.2	0.1	1.0	0.1	0.4	1.0	6.0	0.7	4.0	10.7	79.4
Odisha	133.2	2204.8	41.2	1152.1	45.1	677.3	70.0	651.8	5.9	52.4	44.1	410.2	-	-	96.6	1367.2	553.8	7790.1
Puducherry	0.2	1.5	-	-	-	-	0.1	0.6	-	-	-	-	0.2	4.0	0.0	0.1	0.6	8.8
Punjab	3.2	68.9	4.4	76.8	8.7	154.7	2.6	27.5	19.7	200.6	-	-	-	-	6.3	154.5	174.1	3585.8
Rajasthan	6.3	30.9	1.0	8.5	8.4	39.2	4.3	12.4	3.6	4.1	1.0	2.8	-	-	16.9	67.5	140.3	885.0
Sikkim	0.3	1.6	1.2	6.9	0.7	3.9	1.1	7.2	2.0	8.6	-	-	-	-	0.9	8.1	23.9	120.9
Tamil Nadu	12.4	203.5	1.4	78.6	0.7	13.3	5.7	46.8	-	-	0.8	12.4	134.6	5522.7	27.2	580.6	277.3	8279.9
Tripura	3.2	43.9	1.9	45.6	1.8	33.8	1.6	12.5	-	-	-	-	-	-	1.4	30.2	36.0	532.3
U.P.	3.0	92.1	1.6	49.5	9.3	188.5	11.1	128.8	159.2	1532.4	16.8	206.6	-	-	6.7	248.6	829.4	17679.4
Uttarakhand	2.2	25.9	5.6	70.5	2.6	34.0	3.3	27.1	11.2	86.9	-	-	-	-	8.8	97.1	85.8	1030.9
West Bengal	158.4	2870.6	75.3	2087.8	70.0	1777.2	74.0	862.1	21.4	129.4	22.9	235.7	-	-	54.1	1063.7	1349.7	26725.5
Total	680.0	11895.8	368.8	7948.9	368.7	6744.9	498.3	5784.0	369.8	3517.4	113.2	1046.6	221.4	8076.0	864.9	16826.4	8494.5	146554.5

(Source: NHB, National Horticulture Database 2011)

Table 3.11: Different profitable crop rotations for irrigated areas of Indo-Gangetic plains

Cropping systems	Crop circle	Yield (t / ha)	Sowing time	Harvest time	Estimated income (₹/ha) (at prices in March 2010)
2 crops	Rice	5-6	June / July	October	50000-60000
	Wheat	4.5 to 5	November	April	
	Paddy	5-6	June / July	October	70000-80000
	Barsim	60-70	October	May	
	Basmati rice	4-5	June / July	November	60000-65000
	Sunflower	2 to 2.5	February	May	
	Maize,	4 to 4.5	June	October	40000-50000
	Wheat	5 to 5.5	November	April	
	Tur	1.8 to 2	June	Nov.-Dec.	45000-50000
	Wheat	5 to 5.5	December	April	
	Cotton	2 to 2.5	May	Nov.-Dec.	40000-50000
	Wheat	4.5 to 5	December	April	
	Peanuts,	1.8 to 2	July	October	40000-50000
	Wheat	5 to 5.5	November	April	
	Paddy	5-6	June / July	October	40000-50000
	Gam	1.8 to 2	October	April	
	Soybean	1.8 to 2	July	November	40000-50000
	Wheat	5 to 5.5	November	April	
	Soybeans	1.8 to 2	July	November	45000-55000
	Potatoes	20-25	November	February	
3 crops	Green manure	-	April	June	55000-65000
	Rice	5.5 to 6	June / July	October	
	Wheat	4.5 to 5	October	April	
	Lobia/Millet/Sorghum	2 to 2.5	April	June	65000-70000
	Maize	4 to 4.5	July	October	
	Wheat	5 to 5.5	November	April	55000-65000
	Green manure	-	April	June	
	Maize	4 to 4.5	July	October	
	Wheat	5 to 5.5	November	April	
	Corn,	4 to 4.5	Mid June	September	80000-90000
	Potatoes,	20-25	September end	December	
	Wheat	3.5 to 4	December	April	
	Corn,	4 to 4.5	July	October	90000-95000
	Potato,	25-30	October	Jan. / Feb.	
	Bean	1-1.2	March	June	
	Corn,	4 to 4.5	July	October	
	Wheat,	4.5-5	November	April	
	Moong	0.8 to 1.0	April	June	50000-60000
	Corn,	4 to 4.5	June	September	85000-95000
	Potato,	25-30	October	January	
Sunflower	2 to 2.2	February	May		
Maize,	4 to 4.5	June	September	65000-70000	
Rapeseed / Mustard,	0.8 to 1.2	Sept. / Oct	January		
Sunflower	2 to 2.2	February	May		

Contd...

Cropping systems	Crop circle	Yield (t / ha)	Sowing time	Harvest time	Estimated income (₹/ha) (at prices in March 2010)
4 crops	Maize	4 to 4.5	June	September	60000-65000
	Mustard	2 to 2.2	October	March	
	Moong / Urd	1-1.2	April	June	
	Corn,	4-4.5	June	September	90000-100000
	Potatoes,	25-30	October	December	
	Onions	20-25	January	April	
	Rice	5-6	June / July	September	90000-95000
	Potatoes,	20-25	September last	December	
	Wheat	3.5 to 4	December	April	
	Paddy	5-6	July	October	95000-100000
	Potato	20-22	October	Jan. / Feb.	
	Bean	1-1.2	March	June	
	Paddy	5-6	June / July	October	100000-110000
	Potato	20-25	October	January	
	Sunflower	2 to 2.2	February	April	
	Paddy	5-6	June	Mid-Sept.	70000-80000
	Rapeseed / Mustard,	0.8 to 1.2	Sept. / Oct.	January	
	Sunflower	1.8 to 2	February	May	
	Paddy,	5-6	June / July	October	60000-70000
	Wheat,	4-4.5	November	April	
Moong	0.8 to 1.0	April	June		
Paddy	5-6	Junjulai	October	60000-70000	
Mustard	1.8 to 2	October	March		
Moong / Urd	1-1.2	April	June		
Maize,	4-4.5	Mid-June	September	110000	
Potatoes,	20-25	September	December		
Wheat,	3.5 to 4	December	April		
Moong	0.6 to 0.8	April	June		
Maize	4-4.5	Mid-June	September	95000-100000	
Rapeseed	0.6-0.8	September	December		
Wheat	3.5 to 4	December	April		
Moong	0.6 to 0.8	April	June		
Paddy	5-6	Mid-June	September	110000-112000	
Green Peas	3-4	October	December		
Wheat	3.5 to 4	December	April		
Moong	0.6 to 0.8	April	June		
Maize	4-4.5	Mid-June	September	80000-850000	
Radish /turnip	18-22	September	November		
Wheat	3.5 to 4	November	April		
Moong	0.6 to 0.8	April	June		

(Source: www.krishiseva.com)

Table 3.12: Vegetable based profitable crop rotations

Area	Crop circle	Yield (q/acre)	Estimated cost (₹ / acre)	Estimated income (₹ / acre)	Estimated Benefits (₹ / acre)	Sales Price (₹ / kg)
Northern Plains	Early cabbage (July - October)	50	20000	100000	80000	20
	Pea (October -January)	35	8000	35000	27000	10
	Tomato (January - June)	100	25000	100000	75000	10
	Bhindi (June - September)	50	15000	40000	25000	8
	Carrot (October- December)	100	12000	50000	38000	5
	Cauliflower (Dec.- Marh)	100	15000	30000	15000	3
	Radish (April - May)	70	6000	21000	15000	3
	Cucumber (July-September)	50	12000	50000	38000	10
	Potato (October-December)	100	15000	60000	45000	6
Onion (January - June)	110	25000	110000	85000	10	
North East Plains	Cauliflower (June - August)	50	16000	75000	59000	15
	Pea (September - November)	40	10000	40000	30000	10
	Radish (December-January)	70	8000	21000	13000	3
	Shimla Mirch (January - May)	70	25000	105000	80000	15
	Green Mirch (June-September)	50	20000	50000	30000	10
	Broccoli (October to December)	50	12000	75000	63000	15
	Radish (January - February)	60	6000	18000	12000	3
	Potato (February - May)	100	20000	100000	80000	10
North West Plains	French Bean (July - August)	45	15000	45000	30000	10
	Cabbage (Sept.- Oct.)	70	10000	35000	25000	5
	Pea (November to April)	40	10000	60000	50000	15
	Shimla Mirch (April - June)	60	25000	120000	95000	20
	Tomato (June - September)	100	25000	100000	75000	10
	Knol-rabi (Sept.- November)	90	15000	45000	30000	5
	Coriander (Dec.- February)	25	7000	50000	43000	20
	Potato (March - May)	100	20000	100000	80000	10
Eastern Plains	Parval (February - June)	50	15000	40000	25000	8
	Eggplant (July - October)	120	18000	60000	42000	5
	Cauliflower (Nov.to January)	100	15000	40000	25000	4
	Cowpea (July - October)	50	10000	40000	30000	8
	Tomato (November - February)	110	25000	88000	63000	8
	Bitter gourd (February - April)	80	12000	64000	52000	8
	Amaranth (May - June)	30	7000	15000	8000	5
Southern Region	Tomato (June - October)	125	20000	125000	95000	10
	French Bean (Nov. - January)	50	10000	50000	40000	10
	Okra (February - May)	60	12000	60000	48000	10
	Cowpea (June - August)	65	10000	52000	42000	8
	Tomato (Sept.- December)	120	20000	120000	100000	10
	Watermelon (Dec - May)	100	15000	100000	85000	10

(Source: www.krishiseva.com)

Table 3.13: Number of vegetable varieties released during 1951-2009

Crops	1951-1960	1961-1970	1971-1980	1981-1990	1991-2000	2001-2009	Unknown	Total
Potato	6	11	5	4	9	15	-	50
Cassava	-	-	5	1	5	2	-	13
Sweet potato	-	-	2	3	8	17	-	30
Greater yam	-	-	-	2	1	3	-	6
White yam	-	-	-	2	1	-	-	3
Lesser yam	-	-	-	1	1	1	-	3
Elephant foot yam	-	-	-	-	3	4	-	7
Colocasia (Taro)	-	-	-	2	2	9	-	13
Colocasia (Bunda)	-	-	-	-	-	3	-	3
Chinese potato	-	-	-	-	1	-	-	1
Xanthosoma	-	-	-	-	1	-	-	1
Coleus	-	-	-	-	1	-	-	1
Yam bean	-	-	-	-	1	-	-	1
Tomato	-	-	14	11	12	17	-	54
Brinjal	-	-	9	16	21	13	-	59
Chillies	-	-	3	12	7	15	-	37
Sweet pepper	-	-	3	3	2	1	-	9
Cauliflower	-	-	7	3	3	3	-	16
Cabbage	-	-	5	1	2	-	-	8
Broccoli	-	-	-	-	-	3	-	3
Knoll-kohl	-	-	3	-	-	1	-	3
Bitter gourd	-	-	2	4	3	3	-	12
Pumpkin	-	-	1	3	-	6	-	10
Squash	-	-	1	2	-	-	-	3
Bottle gourd	-	-	1	4	2	11	-	18
Musk melon	-	-	5	5	5	5	-	20
Water melon	-	-	4	2	2	5	-	13
Ash gourd	-	-	-	1	-	1	-	02
Cucumber	-	-	2	2	-	6	-	10
Long melon	-	-	-	-	1	1	1	02

Contd...

Crops	1951-1960	1961-1970	1971-1980	1981-1990	1991-2000	2001-2009	Unknown	Total
Round melon	-	-	-	-	-	-	-	1
Pointed gourd	-	-	-	-	2	3	-	5
Ivy gourd	-	-	-	-	-	5	-	5
Ridge gourd	-	-	1	2	-	5	-	8
Sponge gourd	-	-	1	1	1	5	-	8
Round gourd	-	-	1	1	-	1	-	3
Snake gourd	-	-	1	2	1	2	-	6
Snap melon	-	-	-	-	2	1	-	3
Onion	-	-	6	6	8	8	23	51
Garlic	-	-	-	4	3	2	14	23
Carrot	-	-	1	2	2	1	6	12
French bean	-	-	-	4	3	4	6	17
Cowpea	-	-	-	2	3	5	2	12
Dolichos bean	-	-	-	2	1	2	2	7
Garden peas	-	-	4	3	3	3	9	22
Cluster bean	-	-	-	-	1	-	1	2
Sword bean	-	-	-	-	-	-	1	1
Kanchri (melon)	-	-	-	-	-	2	-	2
Kakri (cucumber)	-	-	-	-	-	2	-	2
Spin gourd	-	-	-	-	-	1	-	1
Teasel gourd	-	-	-	-	-	1	-	1
Total	6	11	86	113	124	198	65	603

(Source: Agricultural Research Data Book, 2011, IASRI)

Table 3.14: Vegetable seed production

Seeds	2009-10		2010-11	
	Purchase	Sale	Purchase	Sale
Breeder's seed (Qtls)	56	63	270	456
Foundation seed (Qtls)	143	82	624	393
Certified seed (Qtls)	4973	4303	24035	22155
Sale of certified quality seeds (₹ lakhs)	994.68	2893.28		

(Source: Annual Report, 2010-11, National Seeds Corporation, GOI)

Table 3.15: Post-harvest losses in vegetables at different stages

Vegetables	Total production	Stages of losses				Total losses
		Harvesting	Grading & packing	Handling & transportation	Marketing	
Pea	20.22	0.98 (4.87)	0.21 (1.05)	0.75 (3.70)	0.09 (0.44)	2.03 (10.06)
Tomato	872.53	61.14 (7.01)	13.87 (1.59)	56.06 (6.42)	1.21 (0.14)	132.27 (15.16)
Potato	122.86	4.38 (3.56)	1.69 (1.38)	-	2.46 (2.00)	8.53 (6.94)
French bean	20.66	0.80 (3.86)	0.16 (0.80)	1.22 (5.89)	0.11 (0.51)	2.29 (11.06)
Cauliflower	17.18	0.24 (1.38)	0.49 (2.82)	0.42 (2.46)	0.28 (1.60)	1.42 (8.27)
Cabbage	40.62	0.68 (1.68)	0.59 (1.46)	0.40 (0.98)	0.50 (1.22)	2.17 (5.33)
Onion	71.35	2.32 (3.25)	1.08 (1.51)	-	0.86 (1.20)	4.25 (5.95)
Chilly	5.90	0.19 (3.17)	0.10 (1.63)	0.27 (4.56)	0.03 (0.53)	0.58 (9.89)
Radish	13.50	0.35 (2.59)	0.18 (1.30)	-	-	0.53 (3.89)
Capsicum	2.25	0.04 (1.93)	0.02 (0.89)	0.04 (1.78)	-	0.10 (4.59)
Okra	42.41	1.63 (3.83)	1.60 (3.76)	0.40 (0.94)	-	3.62 (8.54)
Brinjal	152.00	6.84 (4.50)	9.12 (6.00)	0.76 (0.50)	-	16.72 (11.00)

Note: Figures within the parentheses show percentage loss to total production

(Source: Sharma, G and S. P. Singh. 2011. Economic analysis of post-harvest losses in marketing of vegetables in Uttarakhand. *Agricultural Economic Research Review* 24: 309-315)

Table 3.16: Post-harvest losses in vegetables at grower, wholesaler and retailer levels

Vegetable	Losses at different levels (%)			
	Grower	Wholesaler	Retailers	Total
Tomato	15.16	-	8.03	23.19
Potato	6.94	5.00	4.94	16.88
Onion	5.95	3.50	4.32	13.77
French bean	11.06	-	5.67	16.73
Cauliflower	8.27	-	5.16	13.43
Cabbage	5.33	-	3.32	8.65
Pea	10.06	-	6.31	16.37
Chilly	9.89	-	6.86	16.75
Radish	3.89	-	2.63	6.52
Capsicum	4.59	-	5.84	10.43
Okra	8.54	-	7.09	15.63
Brinjal	11.00	-	5.81	16.81

(Source: Sharma, G and S. P. Singh, 2011. Economic analysis of post-harvest losses in marketing of vegetables in Uttarakhand. *Agricultural Economic Research Review* 24: 309-315.)

Table 3.17: Monthly wholesale price index (WPI) of vegetables in India {(Base Year: 1981-82; 1993-94; 2004-05=100)}

Year	January	February	March	April	May	June	July	August	September	October	November	December
1981-82=100												
1990				194.6	226.9	241.4	248	248.7	246.5	264.6	268.6	252.3
1991	228.4	203.2	192.4	218.8	238.2	261.6	286.3	335.4	328.4	315.3	316.4	241.2
1992	190.6	183.7	203.4	209.1	233.3	267	298.4	302.6	293	305.3	298.5	255.5
1993									373.4	392.7	380.6	343.7
1993-94=100												
1994	288.3	253.9	251.8	86.4	85.6	116.1	124.5	136.4	130.5	131.9	126.6	101.7
1995	98.2	91.6	95.2	101.8	112.8	134.8	147.4	156.1	157.1	167.9	165.3	121.8
1996	92.3	92.7	96.5	130.7	139.2	151.5	152.3	171.1	161	162.4	165	165.2
1997	137.7	138	124.6	124	98	105.7	132	135.6	148.2	185.8	155.9	143.5
1998	167.9	138.6	138.4	170.1	183	219.5	232.7	223	232.4	291	301.7	229.4
1999	131.2	98.6	103.7	143.3	136	142.3	146.2	165.7	141.6	166.3	167.7	132.9
2000	114.6	116.6	132.3	137.3	128.1	141.6	142.8	147.8	147.2	177.7	166.9	139.3
2001	118.6	113.8	112.3	140.8	158	178.3	203.7	210.9	179.5	192.4	205.2	184
2002	142.8	128	136.9	157.2	154.3	176.9	202.5	213.5	196.8	200.8	184.6	121.1
2003	112	116.6	118.3	145.3	140.3	167.9	183.8	168.5	171.3	204.1	187.4	153.6
2004	148.2	130.7	120.5	160.6	173	189.2	185.9	207.4	187.5	214.8	196.8	144.8
2005	132	125.7	135.7	175.7	182.1	189.3	220.8	208.9	208.9	223.8	233.7	192.9
2006	173.5	143.2	142.3	172	177.4	217.3	217.7	209.7	218.4	227.4	216.4	191.4
2007	183.1	168.3	178	214.6	222.3	236.2	273.2	268.7	259	231.3	218.1	198.7
2008	186.8	181.6	203	225.6	223.5	240.5	259.8	245.8	252.1	260.8	271.2	213.9
2009	215.5	193.5	192.3	262.6	270.5	299.5	339.3	303.1	292.3	279.2	322.1	286.6
2010	247.5	212.6	197.3	259.4	271.4	304.5	293.8	262.1				
2004-05=100												
2005				93.9	99.6	108.5	127.1	123	128.1	141.9	147.8	111.7
2006	104.4	92.2	86.3	86.5	92.3	109	111.6	124.8	129	135.8	130	117.3
2007	112.3	108.3	114.5	124.4	130.8	140.3	162.4	169.3	159	153.3	144.5	122.6
2008	108.9	109.4	119.9	114.4	118.6	129.9	139.8	145.1	152.5	173.6	188.3	153.8
2009	149.5	121	116.2	133.2	140.4	156	178.5	184.5	170.7	179.3	191.8	180
2010	156.8	138.4	132	143.9	150.9	175.1	172	176.2	189.5	193.9	189.2	240.5
2011	261.1	158.3	143.3	146.8	149.9	163.8	185.4	199.4	216.8	224.3	209.4	157.4
2012	146.9	161	190	237.6	224.7	243.8	230.1					

(Source: www.indiastat.com)

Table 3.18: Monthly percapita consumption of vegetables & its products in India (July 2009-June 2010)

Item Description	Rural India		Urban India	
	Qty (Kg)	Value (₹)	Qty (Kg)	Value (₹)
Potato	1.666	18.4	1.368	17.29
Onion	0.741	10.89	0.854	13.34
Radish	0.186	1.43	0.176	1.79
Carrot	0.073	1.08	0.153	2.77
Turnip	0.006	0.07	0.008	0.11
Beet	0.013	0.2	0.036	0.66
Sweet Potato	0.01	0.13	0.009	0.15
Arum	0.063	0.86	0.046	0.84
Pumpkin	0.25	2.21	0.166	1.89
Gourd	0.302	2.95	0.284	3.7
Bitter Gourd	0.08	1.43	0.117	2.56
Cucumber	0.136	1.57	0.208	2.93
Parwal, Patal	0.097	1.42	0.087	1.68
Jhinga, Torai	0.209	2.48	0.148	2.44
Snake Gourd	0.022	0.29	0.036	0.58
Papaya Green	0.085	0.7	0.039	0.43
Cauliflower	0.302	3.53	0.362	5.92
Cabbage	0.275	2.9	0.337	4.6
Brinjal	0.518	6.42	0.441	6.86
Lady's Finger	0.202	3.13	0.282	5.86
Other Leafy Vegetables	0.605	5.84	0.497	6.76
French Beans, Barbati	0.073	1.2	0.092	2.07
Tomato	0.537	7.47	0.757	11.66
Peas	0.05	0.88	0.09	2.02
Chillis Green	0.145	4.09	0.148	4.42
Capsicum	0.005	0.11	0.021	0.65
Plantain Green	0.022	0.3	0.02	0.34
Jackfruit Green	0.024	0.23	0.015	0.24
Lemon (No.)	1.27	1.19	1.72	3
Other Vegetables	0.284	3.94	0.27	4.9
Vegetables Sub Total	-	87.33	-	112.44
Pickles (gm)	8.08	0.68	14.3	1.52
Sauce (gm)	0.34	0.04	4.68	0.56
Jam, Jelly (gm)	0.54	0.06	3	0.45
Other Processed Food	-	7.58	-	17.48
Total Food	-	600.36	-	880.83

(Source: www.indiastat.com)

Table 3.19: Food and nutrient supply from vegetables in India

Years	Food supply quantity (million t)	Food supply quantity (kg/capita/year)	Food supply quantity (g/capita/day)	Food supply (kcal/capita/day)	Protein supply quantity (g/capita/day)	Fat supply quantity (g/capita/day)
1961	16.925	37.00	101.00	25.00	1.40	0.20
1962	17.664	37.90	104.00	26.00	1.50	0.20
1963	18.395	38.60	106.00	26.00	1.50	0.20
1964	19.054	39.20	107.00	26.00	1.50	0.20
1965	19.749	39.80	109.00	27.00	1.50	0.20
1966	20.590	40.60	111.00	27.00	1.60	0.20
1967	21.273	41.10	112.00	28.00	1.60	0.20
1968	22.022	41.60	114.00	28.00	1.60	0.20
1969	22.938	42.40	116.00	28.00	1.60	0.20
1970	23.887	43.10	118.00	29.00	1.70	0.20
1971	24.873	43.90	120.00	29.00	1.70	0.20
1972	25.929	44.70	123.00	30.00	1.70	0.20
1973	26.792	45.10	124.00	30.00	1.70	0.20
1974	27.723	45.60	125.00	30.00	1.80	0.30
1975	28.571	45.90	126.00	31.00	1.80	0.30
1976	29.470	46.30	127.00	31.00	1.80	0.30
1977	30.430	46.70	128.00	31.00	1.80	0.30
1978	31.430	47.10	129.00	31.00	1.80	0.30
1979	32.303	47.20	129.00	32.00	1.80	0.30
1980	33.240	47.50	130.00	32.00	1.80	0.30
1981	34.554	48.20	132.00	32.00	1.80	0.30
1982	35.939	49.00	134.00	32.00	1.90	0.30
1983	37.464	49.90	137.00	33.00	1.90	0.30
1984	38.727	50.50	138.00	34.00	1.90	0.30
1985	39.633	50.50	138.00	33.00	1.90	0.30
1986	40.922	51.00	140.00	33.00	1.90	0.30
1987	42.515	51.90	142.00	34.00	2.00	0.30
1988	43.470	51.90	142.00	34.00	2.00	0.30
1989	44.280	51.70	142.00	34.00	1.90	0.30
1990	45.238	51.80	142.00	34.00	1.90	0.30
1991	46.056	51.60	141.00	34.00	2.00	0.30
1992	46.711	51.30	141.00	34.00	2.00	0.30
1993	49.037	52.80	145.00	35.00	2.00	0.30
1994	50.158	53.00	145.00	35.00	2.00	0.30
1995	52.312	54.20	149.00	36.00	2.00	0.30
1996	52.643	53.60	147.00	35.00	2.00	0.30
1997	49.661	49.60	136.00	32.00	1.80	0.30
1998	59.528	58.40	160.00	39.00	2.20	0.30
1999	65.962	63.70	174.00	42.00	2.40	0.30
2000	67.007	63.60	174.00	42.00	2.40	0.30
2001	72.827	68.00	186.00	45.00	2.60	0.40
2002	63.818	58.60	161.00	38.00	2.20	0.30
2003	72.529	65.60	180.00	43.00	2.40	0.40
2004	60.496	53.90	148.00	36.00	2.00	0.30
2005	65.546	57.50	158.00	39.00	2.10	0.30
2006	74.756	64.60	177.00	44.00	2.40	0.40
2007	80.657	68.70	188.00	47.00	2.50	0.40
2008	83.416	70.00	192.00	48.00	2.60	0.40
2009	82.718	68.50	188.00	46.00	2.50	0.40

(Source: www.faostat.fao.org)

Table 3.20: Commodity balance sheet of vegetables in India

(Tonnes)

Years	Total production	Import quantity	Food supply		Export, processing and wastage			
			Food supply quantity	% of total production	Export quantity	Processing quantity	Wastage quantity	% of total production
1961	18468500	111	16925419	91.6	111745	0	1431450	8.4
1962	19280200	75	17663770	91.6	121803	0	1494701	8.4
1963	20050300	56	18395144	91.7	103760	0	1551451	8.3
1964	20765500	48	19054280	91.8	108718	0	1602550	8.2
1965	21511000	232	19748547	91.8	103027	1	1659652	8.2
1966	22400600	143	20589796	91.9	90930	0	1720011	8.1
1967	23139050	291	21272506	91.9	110863	0	1755972	8.1
1968	23930200	104	22022494	92.0	102307	0	1805501	8
1969	24947800	201	22938422	91.9	134069	1	1875506	8.1
1970	25985900	117	23887361	91.9	157142	1	1941504	8.1
1971	26982000	115	24872930	92.2	98680	0	2010500	7.8
1972	28063400	244	25929493	92.4	47645	0	2086500	7.6
1973	29006500	178	26792287	92.4	63386	1	2151003	7.6
1974	30022200	115	27722899	92.3	79534	0	2219880	7.7
1975	30974900	136	28571408	92.2	119589	0	2284031	7.8
1976	32010800	109	29470328	92.1	180495	1	2362287	7.9
1977	32953900	70	30430099	92.3	110321	1	2413670	7.7
1978	33991050	56	31430131	92.5	78487	1	2482862	7.5
1979	34942600	85	32303110	92.4	126823	1	2512770	7.6
1980	35975100	89	33240095	92.4	154667	1	2580517	7.6
1981	37441100	23	34553657	92.3	220747	0	2666881	7.7
1982	38970400	622	35938832	92.2	249554	1	2782631	7.8
1983	40541000	17702	37463625	92.4	209119	1	2886010	7.6
1984	41994400	179	38727087	92.2	303250	1	2964385	7.8
1985	42961000	90	39633162	92.3	295842	1	3032121	7.7
1986	44537000	318	40921623	91.9	455646	1	3160051	8.1
1987	45916076	20528	42515075	92.6	173907	1	3246519	7.4
1988	47007890	21547	43470028	92.5	280087	0	3278501	7.5
1989	48009361	2581	44280233	92.2	376539	0	3355226	7.8
1990	48944659	10019	45238126	92.4	298061	0	3418399	7.6
1991	49967236	1984	46056089	92.2	443134	0	3470030	7.8
1992	50470471	2684	46711251	92.6	347549	0	3414370	7.4
1993	52958500	11790	49036850	92.6	429967	2	3503475	7.4
1994	54182905	766	50158077	92.6	487113	0	3538511	7.4
1995	56267800	179	52311933	93.0	494263	0	3461778	7
1996	56700869	944	52643068	92.8	560030	1	3498713	7.2
1997	53344563	4786	49661029	93.1	496383	1	3192120	6.9
1998	63818194	21344	59528219	93.3	365181	0	3946155	6.7
1999	70978662	60572	65962089	92.9	444790	0	4632431	7.1
2000	72283100	13016	67006778	92.7	575560	0	4713648	7.3
2001	78890142	77644	72826698	92.3	733274	0	5407829	7.7
2002	69173618	69651	63817896	92.3	948910	0	4476631	7.7
2003	79048764	36355	72529004	91.8	1222008	2	5335290	8.2
2004	65585737	29902	60495903	92.2	1212481	0	3908646	7.8
2005	71450657	25271	65546343	91.7	1564397	0	4367063	8.3
2006	81898241	21113	74755956	91.3	2038362	1	5125449	8.7
2007	87979231	35973	80656704	91.7	1858120	1	5502083	8.3
2008	91729122	23147	83415733	90.9	2548566	1	5789478	9.1
2009	90791033	22918	82717668	91.1	2519360	1	5580933	8.9

(Source: www.faostat.fao.org)

Table 3.21: India's import of vegetable seeds (2007-08)

(Quantity in t; value in lakh ₹)

Peas seeds			Radish seeds			Tomato seeds		
Country	Qty	Value	Country	Qty	Value	Country	Qty	Value
New Zealand	90	37.77	New Zealand	141.66	169.89	China	4.99	351.12
U S A	10	7.61	Italy	72.88	138.6	Hong Kong	0.49	26.11
Netherland	5	6.21	Japan	14.07	114.18	U S A	0.19	24.82
Total	105	51.59	Korea	23.43	47.45	Thailand	0.2	15.06
			China	0.51	3.6	Japan	0.06	2.74
			France	0.08	0.2	Korea	0.02	2.67
			Total	252.63	473.92	Italy	0.02	1.74
						France	0.05	0.4
						Total	6.02	424.66
Cabbage seeds			Cauliflower seeds			Other vegetable seeds		
Country	Qty	Value	Country	Qty	Value	Country	Qty	Value
U S A	42.17	1055.0	Chile	7.83	670.56	Thailand	264.74	2,271.2
Chile	9.46	522.02	France	4.21	420.57	Taiwan	10.9	1,326.4
Italy	12.82	501.17	Japan	5.91	312.73	Netherland	93.7	978.06
Korea	10.31	393.01	USA	4.06	298.09	China	36.3	767.82
Netherland	6.14	274.59	China	8.65	260.61	USA	175.56	754.87
Japan	4.38	190.73	Denmark	1.35	100.91	Japan	80.22	687.94
Australia	4.57	165.57	Netherland	2.33	96.79	Italy	212.29	438.96
New Zealand	9.2	118.28	Taiwan	0.9	48.23	Korea	10.48	380.8
China	2.14	59.54	Italy	1.48	46.52	France	30.78	376.8
France	0.82	32.87	New Zealand	0.84	7.09	Australia	23.72	107.95
Korea	0.35	7.9	Korea	0.02	1.42	Indonesia	1.65	76.73
Indonesia	0.15	5.93	Total	37.62	2265.13	Chile	4.46	73.85
Thailand	0.1	1.43				New Zealand	41.92	40.1
Total	104.97	3343.5				Mexico	0.06	22.89
						Costa Rica	1.5	19.34
						Denmark	9.6	17.03
						Afghanistan	13.62	14.38
						South Africa	0.9	10.88
						Germany	2	8.4
						Vietnam	0.57	7.43
						Philippines	0.38	4.92
						Israel	0.2	3.25
						Zimbabwe	1	2.63
						Hong Kong	0.01	0.05
						Total	1,019.14	8,470.9

(Source: www.agriexchange.apeda.gov.in)

Table 3.22: Export of radish seeds from India

(Quantity: Kg, Value: ₹)

Country	2008-09		2009-10		2010-11	
	Qty	Value	Qty	Value	Qty	Value
Pakistan	30283	3081568	23171	1427838	48593	7161519
Saudi Arabia	0	0	2540	597502	3600	1497370
Korea	0	0	0	0	26150	1204141
Sudan	0	0	0	0	5000	660768
Oman	4060	781198	8000	1175920	3275	527493
Sri lanka	150	56400	0	0	500	236808
Bangladesh	1020	337641	30	10859	15000	233800
Jordan	2000	99769	0	0	2000	149478
Nepal	0	0	155	18628	620	121700
UAE	0	0	0	0	400	25831
Others	1213	301225	5157	441134	20	9303
Total	38726	4657801	39053	3671881	105158	11828211

(Source: www.agriexchange.apeda.gov.in)

Table 3.23: Export of other vegetable seeds from India

(Quantity: Tonnes, Value: Lakhs ₹)

Country	2008-09		2009-10		2010-11	
	Qty	Value	Qty	Value	Qty	Value
Pakistan	1976	1447	2635	2761	4394	4511
Bangladesh	94	177	41	164	247	377
Nepal	102	85	100	114	251	307
USA	24	373	45	304	17	197
Oman	18	117	17	134	24	192
Italy	45	162	48	96	146	181
Sri lanka	15	68	81	206	56	152
Japan	94	759	54	517	47	138
France	14	80	12	93	14	134
Saudi Arabia	160	144	43	100	127	131
Others	198	1792	469	1592	377	1109
Total	2740	5204	3545	6081	5700	7429

(Source: www.agriexchange.apeda.gov.in)

Table 3.24: Export specifications of vegetables

Commodity	Parameters for export
Okra	3-5 inch length, green tender, packing 5 Kg
Tondali	1-2 inch length green tender, packing 5 Kg
Bottle gourd	12 inch length, greenish tender, straight, packing 5 Kg
Peas	5-6 inch length, green tender, straight, packing 5 Kg
Gawar	4-5 inch length, not over matured, packing 5 Kg
Suran	Cleaned, weighing around 5-10 Kg
Green chilli	3-4 inch length, green, packing 5 Kg
Drum sticks	24 inch length, straight, thick, packing 5 Kg
Lime	20-25mm, green, packing 5 Kg gunny bags, 20 Kg wooden boxes
Mode of transport	By air or by sea

(Source: NHB, National Horticulture Database 2011)

Table 3.25: State/Port-wise exports of fresh and processed vegetables (2010-11)

State/ Port	(Quantity in t; value in lakh ₹)											
	Fresh vegetables		Dried & preserved vegetables		Fresh onions		Other processed fruits & vegetables		Fruits & vegetables seeds			
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Andhra Pradesh												
Hyderabad Airport	362.22	153.15	12.26	11.39	0.04	0.03	1.83	1.47	79.49	757.54		
ICD Hyderabad			1835.02	342.54			1744.48	446.56	482.80	518.18		
Visakhapatnam Sea							19.00	10.43				
Assam												
Karimganj Steamerghat	18.27	2.58										
Bihar												
Bairagnia	69.47	4.49					0.45	0.42	0.52	0.31		
Bhithamore	8969.69	428.21	253.20	52.73	1047.62	154.31	12.10	8.62				
Jogbani	1440.39	128.44	757.42	168.79	981.26	119.67	163.33	91.77	17.50	5.54		
Patna Customs Airport	169.00	7.57			58.00	3.00	0.20	0.08				
Raxaul Land	1222.64	111.67	893.35	113.06			1623.93	809.76	49.99	59.08		
Goa												
Dabolim	129.00	34.24										
Marmagao Sea	206.40	13.34	1069.37	291.03			126.28	36.35				
Gujarat												
Ahmedabad AIR	29.70	28.24	37.65	126.75			104.92	224.04	0.69	5.38		
Cargo Complex												
ICD Sabarmati	106.04	55.60	110.32	81.15	17.27	1.67	1846.20	953.10	3.51	7.46		
Kandla Sea			8.00	6.97	53.94	5.27	49.02	12.59				
Mundra	2635.30	663.21	4870.40	3911.21	2042.50	199.11	5391.01	2897.55	150.14	64.43		
Okha					229.88	46.17						
Pipavab (Vicyor)	5780.59	1412.12	22910.52	18339.07	2212.14	386.65	5760.47	3637.94	24.00	6.87		
Porbandar	275.00	36.88			3573.24	378.96						
Vadinar							46.17	35.27				
Haryana												
ICD Faridabad	8.10	60.54					8.05	4.40				
ICD Garhiharsaru												

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State/ Port	Fresh vegetables		Dried & preserved vegetables		Fresh onions		Other processed fruits & vegetables		Fruits & vegetables seeds	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Delhi										
CFS Patparganj	5.87	2.04	13.00	6.98	5.06	0.62	82.69	47.63	35.23	101.75
Delhi AIR	19.22	7.71	35.35	2000.14			63.50	83.14	136.40	481.87
Delhi (ICD)	10.70	3.69	6.69	2.30			2044.38	1918.37	59.26	71.98
Punjab										
Amritsar Rly. Stn.	300.00	61.02			1000.34	124.58	2082.68	616.02	5634.08	6009.72
Attariroad, Amritsar			5027.42	643.65	35787.95	4396.84				
ICD Ludhiana	18.59	8.94					14552.51	7719.17		
ICD/CFS Jalandhar							105.84	794.68		
Tripura										
Agartala							14.39	3.33		
Joynagar	2525.04	77.01					2525.04	77.01		
Maharashtra										
CFS Mulund	0.30	0.41	111.44	72.81			108.31	52.38	0.20	0.06
ICD Dighi, Pune							3.20	3.93		
ICD Nagpur							192.09	82.20		
Mumbai AIR	35113.21	11417.88	32.39	32.24	772.66	66.23	113.21	72.10	114.76	2578.95
Mumbai Sea			93.00	64.24	2767.46	266.49				
Nhava sheva Sea	182240.1	35456.63	10155.5	5449.44	559494.8	74754.79	96085.04	41718.48	1725.41	1650.03
Pimpri, Pune							2.80	2.64		
Tamil Nadu										
ACC Coimbatore	605.32	186.07			1.60	0.62				
Chennai AIR	1805.99	681.66	154.45	54.33	6.70	1.76	47.75	47.22	7.95	54.18
Chennai Sea	1720.37	408.75	21468.5	7789.04	118755.8	30639.25	110523.0	37593.82	175.60	175.29
ICD Coimbatore	3.02	0.48					4.06	1.43		
ICD Singanallur							12.00	12.51		
ICD Tuddiyalur							45.10	11.47		
ICD Tuticorin	12.80	1.81	18.02	4.07			130.84	46.29	67.13	390.14
Tuticorin Sea	30290.83	4062.18	15562.1	3598.84	15060.07	3080.24	20799.98	5776.63	52.10	60.00
Karnataka										
Bangalore Airport	1525.43	1323.88	58.03	46.27	0.69	0.06	51.97	18.20	61.60	1900.35
ICD Bangalore	56.39	40.30	22203.4	5335.41			47786.62	12921.21	131.49	523.92
New Mangalore Sea							71.05	11.85		

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State/ Port	Fresh vegetables		Dried & preserved vegetables		Fresh onions		Other processed fruits & vegetables		Fruits & vegetables seeds	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Kerala										
Cochin Airport	25458.68	9377.74	52.28	136.50	23.84	4.77	47.70	44.05	10.52	150.30
Cochin Sea	970.77	252.61	1643.84	954.10	24.18	12.07	10107.63	4900.14	73.34	701.46
Trivandrum Airport	12508.45	3192.59	3.04	3.21	51.12	5.26	107.61	91.11	7.87	66.64
Kanipur (Cochin Cust. Zone)	7724.17	2933.25					5.34	5.97		
West Bengal										
Chengrabandha Rly. Stn.	797.00	560.67			125.00		18.54			1392.34
755.88										
Ghajadanga	12652.72	2001.54			214569.5	32784.15	3592.87	360.91	151.00	24.43
Hili (West)	5785.63	744.25	209.92	184.25	41700.37	5963.44			86.04	15.74
Jaigaon							274.83	155.70		
Kolkata AIR	1658.08	540.78	1.83	1.62	6.29	0.40	55.85	20.83	4.53	22.59
Kolkata Sea	2770.67	210.68	11.50	4.21	7.00	1.76	6330.29	3585.06	25.00	46.03
Kotwaligate (Mohedipur)	9004.13	1919.46			131086.4	17910.79	15.60	1.38		
Panitanki	24369.50	1160.89			491.83	56.66	0.86	0.51	0.01	8.72
Petrapole Land	2666.19	839.70	60.00	36.96	4584.87	605.75	34.59	57.63	375.92	252.08
Meghalaya										
Dawki	21.71	2.98								
Mahendraganj							20.00	1.35		
Puducherry										
ICD Sattva							345.84	161.09		
Uttarakhand										
Tanakpur (Nainatal)	1738.61	173.68	9.51	6.14	65.09	8.19	30.62	18.44	0.02	0.03
Uttar Pradesh										
Gouriphanta	14413.48	1751.55	2334.67	351.10	107.60	15.55			0.10	0.16
LCS Khunwa	15290.33	626.15			446.30	85.59				
Nautanwa (Sanauli)	59430.63	2708.70	2328.57	676.51	24002.45	1730.25	525.96	334.08	18.60	7.42
Nepalganj	5405.25	310.95	7.31	0.85			24.80	2.27	17.70	19.25
Tikunia	3060.34	206.80	1.00	0.18			2.23	1.15	0.78	2.44
Madhya Pradesh										
ICD Pithampur (Indore)							70.77	54.91		

(Source: Compiled data from different sources)

Table 3.26: India's trade in leguminous vegetables

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1987	225	0.88	88	0.46	391	1,506.00	9.88	546	6.91	363
1988	26	0.12	10	0.05	385	1,122.00	5.82	596	3.64	531
1989	12	0.05	4	0.02	333	0	0.00	0	0.00	0
1990	15	0.06	10	0.04	667	127	0.82	56	0.35	441
1991	37	0.15	27	0.12	730	0	0.00	0	0.00	0
1992	0	0.00	0	0.00	0	0	0.00	0	0.00	0
1993	0	0.00	0	0.00	0	0	0.00	0	0.00	0
1994	27	0.04	10	0.02	370	0	0.00	0	0.00	0
1995	0	0.00	0	0.00	0	0	0.00	0	0.00	0
1996	0	0.00	0	0.00	0	0	0.00	0	0.00	0
1997	0	0.00	0	0.00	0	0	0.00	0	0.00	0
1998	8	0.02	7	0.03	875	0	0.00	0	0.00	0
1999	6	0.01	4	0.01	667	0	0.00	0	0.00	0
2000	24	0.03	14	0.03	583	175	0.40	68	0.22	389
2001	23	0.03	38	0.08	1652	0	0.00	0	0.00	0
2002	8	0.01	8	0.02	1000	0	0.00	0	0.00	0
2003	62	0.09	59	0.12	952	0	0.00	0	0.00	0
2004	98	0.14	59	0.12	602	0	0.00	0	0.00	0
2005	234	0.26	106	0.21	453	0	0.00	0	0.00	0
2006	46	0.04	52	0.09	1130	0	0.00	0	0.00	0
2007	45	0.06	9	0.01	200	0	0.00	0	0.00	0
2008	156	0.23	48	0.07	308	0	0.00	0	0.00	0
2009	1664	1.92	1013	1.29	609	0	0.00	0	0.00	0
2010	1326	1.23	1026	1.07	774	0	0.00	0	0.00	0

(Source: www.faostat.fao.org)

Table 3.27: India's trade in roots and tubers

Year	Export			Import			Unit Value			(Quantity in t; value in '000 US\$; unit value in US\$/t)		
	Quantity	% share in world export	Value	Quantity	% share in world import	Value	Quantity	% share in world export	Value	Quantity	% share in world import	Value
1962	0	0.00	0	14	0.05	16	0	0.00	0	1.33	1143	
1963	0	0.00	0	1	0.00	2	0	0.00	0	0.15	2000	
1964	0	0.00	0	0	0.00	0	0	0.00	0	0.00	0	
1965	0	0.00	0	1	0.00	1	0	0.00	1	0.05	1000	
1966	0	0.00	0	38	0.16	71	0	0.16	71	3.73	1868	
1967	7	0.05	1	2	0.01	1	143	0.01	1	0.05	500	
1968	24	0.15	3	0	0.00	0	125	0.00	0	0.00	0	
1969	10	0.11	1	0	0.00	0	100	0.00	0	0.00	0	
1970	12	0.17	1	1	0.05	83	83	0.00	1	0.03	1000	
1971	9	0.06	2	0	0.10	222	222	0.00	0	0.00	0	
1972	43	0.19	8	0	0.34	186	186	0.00	0	0.00	0	
1973	176	0.61	13	0	0.20	74	74	0.00	0	0.00	0	
1974	0	0.00	0	0	0.00	0	0	0.00	0	0.00	0	
1975	4	0.01	1	0	0.01	250	250	0.00	0	0.00	0	
1976	0	0.00	0	0	0.00	0	0	0.00	0	0.00	0	
1977	25	0.08	9	4	0.01	360	360	0.01	10	0.09	2500	
1978	30	0.09	16	205	0.07	533	533	0.33	88	0.78	429	
1979	17	0.05	17	1010	0.09	1000	1000	1.87	434	3.23	430	
1980	12	0.04	5	1001	0.04	417	417	1.85	248	1.68	248	
1981	22	0.05	12	3151	0.07	545	545	3.51	956	4.35	303	
1982	87	0.20	49	1289	0.32	563	563	1.75	401	2.17	311	
1983	41	0.10	25	1	0.15	610	610	0.00	0	0.00	0	
1984	39	0.06	28	179	0.12	718	718	0.44	76	0.62	425	
1985	210	0.27	88	0	0.29	419	419	0.00	0	0.00	0	
1986	148	0.19	54	0	0.18	365	365	0.00	0	0.00	0	
1987	220	0.23	86	19	0.29	391	391	0.04	40	0.27	2105	
1988	249	0.25	97	18	0.22	390	390	0.02	12	0.03	667	
1989	208	0.32	132	0	0.38	635	635	0.00	0	0.00	0	

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Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1990	157	0.26	73	0.20	465	0	0.00	0	0.00	0
1991	522	0.74	175	0.38	335	0	0.00	0	0.00	0
1992	294	0.39	100	0.26	340	0	0.00	0	0.00	0
1993	170	0.25	101	0.30	594	0	0.00	0	0.00	0
1994	487	0.91	160	0.44	329	0	0.00	0	0.00	0
1995	2546	3.90	796	1.90	313	1	0.00	14	0.02	14000
1996	647	0.90	214	0.44	331	1	0.00	4	0.00	4000
1997	1738	2.20	517	0.88	297	1	0.00	3	0.00	3000
1998	572	0.86	264	0.56	462	6	0.01	11	0.02	1833
1999	612	0.77	464	1.19	758	3	0.00	3	0.00	1000
2000	535	0.65	147	0.38	275	48	0.04	23	0.03	479
2001	667	0.67	216	0.42	324	15	0.01	17	0.02	1133
2002	433	0.53	159	0.30	367	22	0.02	11	0.01	500
2003	2467	2.44	642	1.00	260	1	0.00	4	0.01	4000
2004	1017	0.97	519	0.75	510	12	0.01	17	0.02	1417
2005	461	0.39	217	0.28	471	20	0.01	19	0.02	950
2006	546	0.48	371	0.57	679	0	0.00	0	0.00	0
2007	583	0.53	268	0.38	460	17	0.01	27	0.02	1588
2008	1703	1.08	1123	0.94	659	23	0.02	39	0.02	1696
2009	1850	1.12	978	0.72	529	15	0.01	18	0.01	1200
2010	1630	1.00	876	0.73	537	4	0.00	33	0.02	8250

(Source: www.faostat.fao.org)

Table 3.28: India's trade in vegetable products for feed

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1965	2	0.00	0	0.00	0	0	0.00	0	0.00	0
1966	10	0.01	0	0.00	0	0	0.00	0	0.00	0
1967	106	0.10	5	0.14	47	0	0.00	0	0.00	0
1968	0	0.00	0	0.00	0	0	0.00	0	0.00	0
1969	0	0.00	0	0.00	0	0	0.00	0	0.00	0
1970	0	0.00	0	0.00	0	35	0.01	4	0.01	114
1971	0	0.00	0	0.00	0	0	0.00	0	0.00	0
1972	55	0.02	5	0.03	91	23	0.01	4	0.02	174
1973	216	0.04	20	0.06	93	50	0.02	9	0.02	180
1974	18	0.00	4	0.01	222	12	0.00	1	0.00	83
1975	320	0.07	62	0.16	194	0	0.00	0	0.00	0
1976	0	0.00	0	0.00	0	17	0.00	1	0.00	59
1977	650	0.08	123	0.14	189	1	0.00	0	0.00	0
1978	0	0.00	0	0.00	0	49	0.01	5	0.01	102
1979	2959	0.87	442	1.30	149	23	0.00	2	0.00	87
1980	60	0.02	10	0.02	167	122	0.02	10	0.01	82
1981	518	0.12	92	0.20	178	15	0.00	1	0.00	67
1982	261	0.05	39	0.08	149	19	0.00	10	0.01	526
1983	0	0.00	0	0.00	0	34	0.00	10	0.01	294
1984	70	0.01	4	0.01	57	0	0.00	0	0.00	0
1985	1032	0.12	105	0.19	102	0	0.00	0	0.00	0
1986	1	0.00	1	0.00	1000	221	0.01	20	0.02	90
1987	0	0.00	0	0.00	0	717	0.06	54	0.04	75
1988	16	0.00	11	0.02	688	0	0.00	0	0.00	0
1989	12	0.00	4	0.00	333	0	0.00	0	0.00	0
1990	12	0.00	2	0.00	167	0	0.00	0	0.00	0
1991	57	0.01	4	0.00	70	0	0.00	0	0.00	0
1992	36	0.00	9	0.00	250	0	0.00	0	0.00	0

Contd...

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1993	24	0.00	2	0.00	83	0	0.00	0	0.00	0
1994	0	0.00	0	0.00	0	0	0.00	0	0.00	0
1995	150	0.02	33	0.02	220	0	0.00	0	0.00	0
1996	13	0.00	1	0.00	77	10	0.00	1	0.00	100
1997	244	0.03	68	0.04	279	0	0.00	0	0.00	0
1998	36	0.00	6	0.00	167	0	0.00	0	0.00	0
1999	20	0.00	12	0.01	600	0	0.00	0	0.00	0
2000	169	0.03	37	0.03	219	0	0.00	0	0.00	0
2001	247	0.03	42	0.03	170	0	0.00	1	0.00	0
2002	219	0.03	257	0.15	1174	139	0.01	27	0.01	194
2003	52	0.01	27	0.02	519	1951	0.13	635	0.34	325
2004	0	0.00	0	0.00	0	1361	0.04	491	0.22	361
2005	257	0.03	79	0.05	307	369	0.02	114	0.05	309
2006	342	0.03	51	0.03	149	1105	0.06	322	0.12	291
2007	107	0.01	26	0.01	243	149	0.01	86	0.02	577
2008	401	0.03	63	0.02	157	49	0.00	15	0.00	306
2009	1034	0.07	343	0.11	332	133	0.01	42	0.01	316
2010	767	0.04	165	0.04	215	95	0.00	23	0.00	242

Note: Vegetable products for feed include vegetable products, vegetable waste, residues and by-products from the industrial processing of vegetable materials.

(Source: www.faostat.fao.org)

Table 3.29: India's trade of preserved vegetables

Year	Export				Import				Unit Value
	Quantity	% share in world export	Value	% share in world export	Quantity	% share in world import	Value	% share in world import	
1971	6	0.01	2	0.01	0	0.00	0	0.00	0
1972	52	0.07	64	0.23	5	0.01	4	0.01	800
1973	92	0.10	85	0.24	1	0.00	3	0.01	3000
1974	88	0.12	57	0.15	21	0.03	21	0.04	1000
1975	182	0.20	120	0.24	24	0.03	4	0.01	167
1976	115	0.12	69	0.12	1	0.00	4	0.01	4000
1977	546	0.54	341	0.50	0	0.00	0	0.00	0
1978	2033	1.88	1241	1.40	0	0.00	0	0.00	0
1979	1229	1.03	800	0.76	0	0.00	0	0.00	0
1980	646	0.70	593	0.64	0	0.00	0	0.00	0
1981	761	0.81	801	0.89	0	0.00	0	0.00	0
1982	1103	1.08	1038	1.12	0	0.00	0	0.00	0
1983	788	0.76	691	0.74	0	0.00	0	0.00	0
1984	1041	0.89	947	0.99	0	0.00	0	0.00	0
1985	763	0.67	786	0.69	0	0.00	0	0.00	0
1986	773	0.40	952	0.44	0	0.00	0	0.00	0
1987	1558	0.63	2128	1.02	4	0.00	15	0.01	3750
1988	1672	0.72	1297	0.49	0	0.00	0	0.00	0
1989	1485	0.59	1488	0.50	0	0.00	0	0.00	0
1990	12795	5.12	7159	2.42	0	0.00	0	0.00	0
1991	2391	1.01	2382	0.87	0	0.00	0	0.00	0
1992	7462	2.57	4983	1.58	0	0.00	0	0.00	0
1993	7653	2.58	5607	2.12	0	0.00	0	0.00	0
1994	12980	3.97	9412	3.15	0	0.00	0	0.00	0
1995	37780	11.24	24439	7.17	0	0.00	0	0.00	0

Contd...

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1996	26688	7.38	15070	4.07	565	1	0.00	5	0.00	5000
1997	22517	6.41	14113	4.38	627	21	0.00	25	0.01	1190
1998	36095	9.21	24084	7.23	667	13	0.00	18	0.00	1385
1999	32514	7.73	19642	5.80	604	59	0.01	89	0.02	1508
2000	33319	7.36	20165	5.86	605	26	0.01	39	0.01	1500
2001	37666	8.04	19520	5.65	518	40	0.01	65	0.02	1625
2002	48366	11.20	24921	7.75	515	28	0.01	42	0.01	1500
2003	41531	8.76	22447	6.28	540	33	0.01	76	0.02	2303
2004	46301	9.36	28291	7.33	611	17	0.00	68	0.02	4000
2005	100211	19.10	52686	13.05	526	26	0.01	161	0.04	6192
2006	92264	17.90	49009	11.48	531	44	0.01	167	0.04	3795
2007	64263	13.54	39127	8.29	609	158	0.03	303	0.07	1918
2008	111820	21.01	74323	13.67	665	125	0.03	290	0.06	2320
2009	92993	20.90	55211	12.70	594	151	0.04	258	0.06	1709
2010	66247	15.70	36938	8.30	558	324	0.07	612	0.12	1889

Note: Preserved vegetables include vegetables preserved with SO₂ brine, etc., but which are unsuitable for consumption in that state.
(Source: www.faostat.fao.org)

Table 3.30: India's trade in vegetables and its products prepared or preserved and frozen

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1988	18	0.02	19	0.02	1056	0	0.00	0	0.00	0
1989	237	0.25	289	0.28	1219	0	0.00	0	0.00	0
1990	217	0.19	257	0.19	1184	0	0.00	0	0.00	0
1991	225	0.16	271	0.17	1204	0	0.00	0	0.00	0
1992	166	0.12	207	0.12	1247	0	0.00	0	0.00	0
1993	137	0.14	126	0.11	920	0	0.00	0	0.00	0
1994	253	0.21	208	0.14	822	2	0.00	3	0.00	1500
1995	181	0.16	178	0.12	983	0	0.00	0	0.00	0
1996	340	0.24	330	0.18	971	0	0.00	1	0.00	0
1997	243	0.17	234	0.13	963	5	0.00	33	0.02	6600
1998	825	0.53	673	0.35	816	1	0.00	3	0.00	3000
1999	545	0.38	547	0.29	1004	22	0.01	40	0.02	1818
2000	180	0.11	269	0.14	1494	46	0.03	21	0.01	457
2001	1538	0.83	2411	1.06	1568	5	0.00	13	0.00	2600
2002	1843	0.86	3005	1.11	1630	37	0.02	46	0.02	1243
2003	2878	1.23	5112	1.46	1776	27	0.01	61	0.02	2259
2004	3343	1.24	4722	1.13	1413	62	0.02	87	0.02	1403
2005	4934	1.53	5029	1.00	1019	141	0.05	321	0.07	2277
2006	3159	0.85	5085	0.86	1610	77	0.02	283	0.05	3675
2007	4222	1.11	6747	1.02	1598	306	0.09	795	0.12	2598
2008	5526	1.49	8197	1.21	1483	147	0.04	388	0.06	2639
2009	7916	2.14	10475	1.58	1323	426	0.12	1091	0.16	2561
2010	8557	1.89	12489	1.58	1460	331	0.08	1138	0.14	3438

Note: Vegetables and its products prepared or preserved and frozen include vegetables that are prepared or preserved by vinegar and then frozen.
(Source: www.faostat.fao.org)

Table 3.31: India's trade in vegetable products (Fresh or dried)

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1961	73	0.54	44	0.63	603	0	0.00	0	0.00	0
1962	75	0.58	31	0.31	413	0	0.00	0	0.00	0
1963	58	0.31	32	0.17	552	0	0.00	0	0.00	0
1964	1135	7.10	229	1.41	202	0	0.00	0	0.00	0
1965	1075	4.29	180	0.70	167	0	0.00	0	0.00	0
1966	443	2.01	62	0.27	140	0	0.00	0	0.00	0
1967	87	0.39	24	0.10	276	112	0.29	97	0.94	866
1968	77	0.34	28	0.11	364	139	0.32	96	0.33	691
1969	61	0.27	27	0.11	443	233	0.50	208	0.64	893
1970	73	0.31	28	0.12	384	121	0.21	85	0.28	702
1971	275	1.10	109	0.48	396	35	0.07	44	0.21	1257
1972	406	1.50	194	0.96	478	59	0.11	70	0.23	1186
1973	408	1.25	533	1.91	1306	53	0.11	69	0.15	1302
1974	434	1.37	431	1.56	993	30	0.05	65	0.17	2167
1975	373	1.28	155	0.45	416	0	0.00	1	0.00	0
1976	694	2.35	212	0.61	305	8	0.01	8	0.01	1000
1977	374	1.48	346	1.03	925	4	0.01	18	0.03	4500
1978	457	1.20	458	0.91	1002	59	0.08	165	0.22	2797
1979	581	1.83	679	1.48	1169	191	0.24	418	0.42	2188
1980	377	1.63	558	1.24	1480	70	0.08	135	0.11	1929
1981	1010	2.85	1146	1.96	1135	465	0.52	278	0.24	598
1982	509	1.56	598	1.02	1175	15	0.01	16	0.01	1067
1983	230	0.85	266	0.53	1157	261	0.28	94	0.08	360
1984	304	1.04	212	0.40	697	80	0.09	129	0.11	1613
1985	238	0.86	265	0.50	1113	0	0.00	0	0.00	0
1986	275	0.78	190	0.27	691	73	0.09	100	0.07	1370
1987	128	0.23	87	0.10	680	3	0.00	4	0.00	1333

Contd...

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1988	47	0.09	47	0.07	1000	6	0.01	8	0.01	1333
1989	222	0.33	153	0.18	689	0	0.00	0	0.00	0
1990	80	0.12	50	0.06	625	0	0.00	0	0.00	0
1991	74	0.08	63	0.06	851	3	0.00	2	0.00	667
1992	82	0.11	82	0.08	1000	28	0.03	39	0.03	1393
1993	26	0.03	39	0.04	1500	39	0.06	57	0.05	1462
1994	56	0.04	94	0.06	1679	24	0.02	53	0.04	2208
1995	33	0.03	77	0.05	2333	28	0.03	59	0.04	2107
1996	170	0.19	231	0.15	1359	43	0.04	93	0.06	2163
1997	239	0.24	435	0.27	1820	30	0.04	85	0.06	2833
1998	248	0.25	240	0.17	968	275	0.35	662	0.48	2407
1999	116	0.09	161	0.12	1388	108	0.12	196	0.15	1815
2000	201	0.13	247	0.17	1229	126	0.11	243	0.17	1929
2001	259	0.18	295	0.19	1139	232	0.23	281	0.22	1211
2002	172	0.10	350	0.18	2035	161	0.14	178	0.13	1106
2003	326	0.16	379	0.16	1163	471	0.43	304	0.20	645
2004	453	0.21	395	0.13	872	428	0.30	496	0.26	1159
2005	924	0.38	1205	0.35	1304	2027	1.30	2116	1.13	1044
2006	348	0.15	460	0.14	1322	1656	0.82	1717	0.86	1037
2007	1091	0.40	714	0.17	654	497	0.17	512	0.19	1030
2008	1440	0.43	1761	0.34	1223	384	0.14	450	0.13	1172
2009	367	0.10	568	0.10	1548	342	0.14	351	0.10	1026
2010	419	0.18	571	0.28	1363	105	0.03	135	0.03	1286

Note: Vegetable Products (Fresh or dried) include fruit stones, kernels and other vegetable products used primarily for human food that are not specified or included elsewhere. (Source: www.faostat.fao.org)

Table 3.32: India's trade in frozen vegetables

Year	(Quantity in t; value in '000 US\$; unit value in US\$/t)				(Quantity in t; value in '000 US\$; unit value in US\$/t)				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1975	50	0.02	28	0.02	3	0.00	4	0.00	1333
1976	346	0.09	191	0.10	2	0.00	2	0.00	1000
1977	16	0.00	12	0.00	0	0.00	0	0.00	0
1978	385	0.08	166	0.05	0	0.00	0	0.00	0
1979	710	0.14	589	0.16	0	0.00	0	0.00	0
1980	169	0.03	146	0.03	0	0.00	0	0.00	0
1981	22	0.00	19	0.00	0	0.00	0	0.00	0
1982	127	0.02	130	0.03	0	0.00	0	0.00	0
1983	101	0.02	61	0.02	0	0.00	0	0.00	0
1984	20	0.00	10	0.00	0	0.00	0	0.00	0
1985	43	0.01	57	0.01	0	0.00	0	0.00	0
1986	2	0.00	1	0.00	0	0.00	0	0.00	0
1987	20285	1.87	10645	1.28	77	0.01	30	0.00	390
1988	37638	3.27	9802	1.05	0	0.00	0	0.00	0
1989	25180	2.07	8841	0.87	0	0.00	0	0.00	0
1990	15558	1.22	5427	0.45	0	0.00	0	0.00	0
1991	14901	1.03	4313	0.33	1000	0.07	253	0.02	253
1992	15313	1.07	5137	0.37	0	0.00	0	0.00	0
1993	10091	0.63	2849	0.20	0	0.00	0	0.00	0
1994	8011	0.44	2569	0.16	0	0.00	0	0.00	0
1995	10251	0.54	3475	0.20	1	0.00	1	0.00	1000
1996	6398	0.31	2478	0.13	5	0.00	28	0.00	5600
1997	5436	0.25	2438	0.13	14	0.00	43	0.00	3071
1998	3465	0.15	2002	0.10	46	0.00	55	0.00	1196
1999	5294	0.21	2722	0.13	133	0.00	107	0.00	805
2000	17247	0.61	7387	0.37	15	0.00	14	0.00	933
2001	21019	0.72	9138	0.42	36	0.00	32	0.00	889
2002	20057	0.70	10620	0.47	74	0.00	70	0.00	946
2003	22931	0.73	11913	0.45	70	0.00	88	0.00	1257
2004	25573	0.77	13649	0.45	306	0.01	105	0.00	343
2005	16359	0.48	10708	0.34	366	0.01	189	0.01	516
2006	15342	0.42	10992	0.31	20	0.00	59	0.00	2950
2007	15277	0.39	11545	0.28	47	0.00	219	0.01	4660
2008	21761	0.54	16875	0.36	60	0.00	199	0.00	3317
2009	14421	0.36	10861	0.24	666	0.02	318	0.01	477
2010	16148	0.38	13795	0.30	67	0.00	63	0.00	940

Note: Frozen vegetables include vegetables, either uncooked or cooked by steaming or boiling in water and then frozen.
(Source: www.faostat.fao.org)

Table 3.33: India's trade in dehydrated vegetables

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1961	27	0.07	10	0.03	370	6	0.02	9	0.04	1500
1962	58	0.14	22	0.06	379	4	0.01	10	0.03	2500
1963	17	0.03	8	0.02	471	0	0.00	0	0.00	0
1964	21	0.04	10	0.03	476	2	0.01	2	0.01	1000
1965	32	0.05	354	0.80	11063	23	0.05	32	0.09	1391
1966	41	0.05	348	0.70	8488	5	0.01	6	0.01	1200
1967	22	0.02	264	0.43	12000	9	0.01	11	0.02	1222
1968	36	0.03	412	0.56	11444	14	0.02	17	0.03	1214
1969	28	0.03	525	0.75	18750	28	0.03	23	0.04	821
1970	197	0.17	510	0.57	2589	13	0.01	17	0.02	1308
1971	518	0.52	864	0.97	1668	21	0.02	23	0.03	1095
1972	17	0.01	21	0.02	1235	41	0.04	34	0.03	829
1973	63	0.05	86	0.06	1365	24	0.02	37	0.03	1542
1974	452	0.38	540	0.32	1195	10	0.01	15	0.01	1500
1975	519	0.45	708	0.43	1364	18	0.02	30	0.02	1667
1976	890	0.58	1019	0.55	1145	3	0.00	6	0.00	2000
1977	1907	1.27	3187	1.48	1671	1	0.00	1	0.00	1000
1978	1971	1.55	2902	1.22	1472	5	0.00	13	0.00	2600
1979	1267	0.90	1810	0.75	1429	5	0.00	14	0.00	2800
1980	916	0.59	1668	0.63	1821	11	0.01	26	0.01	2364
1981	1424	0.87	1501	0.53	1054	3	0.00	9	0.00	3000
1982	1800	1.02	2863	0.84	1591	19	0.01	7	0.00	368
1983	2077	1.22	3259	0.97	1569	3526	1.83	1316	0.33	373
1984	2073	1.07	4055	1.29	1956	3	0.00	5	0.00	1667

Contd....

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1985	2070	0.93	2829	0.80	1367	5	0.00	13	0.00	2600
1986	1384	0.54	1934	0.46	1397	14	0.01	20	0.00	1429
1987	1271	0.51	1565	0.35	1231	9	0.00	28	0.01	3111
1988	1069	0.47	1228	0.27	1149	0	0.00	0	0.00	0
1989	2009	0.83	2224	0.45	1107	0	0.00	0	0.00	0
1990	1171	0.41	1062	0.17	907	0	0.00	0	0.00	0
1991	2176	0.66	2792	0.40	1283	0	0.00	0	0.00	0
1992	2920	0.91	3806	0.53	1303	0	0.00	0	0.00	0
1993	2204	0.59	2350	0.34	1066	0	0.00	0	0.00	0
1994	1689	0.42	2147	0.30	1271	0	0.00	0	0.00	0
1995	4715	1.36	5570	0.75	1181	0	0.00	0	0.00	0
1996	6731	1.99	6911	0.87	1027	0	0.00	2	0.00	0
1997	6917	1.93	8538	1.05	1234	1	0.00	10	0.00	10000
1998	4932	1.23	7530	0.97	1527	1133	0.30	723	0.09	638
1999	8871	2.39	11947	1.54	1347	8214	2.08	4027	0.48	490
2000	9011	2.73	9782	1.43	1086	4	0.00	14	0.00	3500
2001	9314	2.41	11616	1.61	1247	295	0.07	769	0.10	2607
2002	16773	4.06	15134	1.77	902	218	0.05	888	0.10	4073
2003	17858	4.22	16732	1.84	937	131	0.03	722	0.08	5511
2004	16762	3.77	15055	1.55	898	114	0.02	729	0.07	6395
2005	33448	7.04	30337	2.80	907	314	0.06	1472	0.13	4688
2006	26892	5.22	37970	2.93	1412	873	0.16	2361	0.19	2704
2007	61325	10.29	58962	3.96	961	1001	0.16	2602	0.18	2599
2008	35703	5.97	37357	2.44	1046	1104	0.18	2547	0.17	2307
2009	31473	5.31	51491	3.46	1636	878	0.15	2965	0.21	3377
2010	44279	6.98	68848	3.78	1555	978	0.15	3478	0.21	3556

Note: Dehydrated vegetables are vegetables that are dried, dehydrated, evaporated or freeze-dried including dried vegetables that are broken or powdered.
(Source: www.faostat.fao.org)

Table 3.34: India's trade in vegetables fresh nes

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1961	793	0.17	132	0.26	166	0	0.00	0	0.00	0
1962	533	0.11	95	0.15	178	4	0.00	1	0.00	250
1963	578	0.10	101	0.13	175	0	0.00	0	0.00	0
1964	580	0.10	109	0.15	188	0	0.00	0	0.00	0
1965	713	0.13	117	0.13	164	19	0.00	2	0.00	105
1966	713	0.12	99	0.09	139	113	0.02	13	0.01	115
1967	1414	0.23	191	0.15	135	212	0.03	12	0.01	57
1968	1426	0.21	210	0.16	147	5	0.00	0	0.00	0
1969	2109	0.28	352	0.23	167	58	0.01	5	0.00	86
1970	3214	0.38	506	0.30	157	44	0.01	4	0.00	91
1971	3739	0.43	623	0.33	167	4	0.00	1	0.00	250
1972	4072	0.51	691	0.51	170	4	0.00	1	0.00	250
1973	2403	0.30	519	0.33	216	26	0.00	11	0.00	423
1974	3540	0.43	1006	0.52	284	1	0.00	0	0.00	0
1975	3886	0.42	1346	0.59	346	12	0.00	2	0.00	167
1976	4311	0.46	1436	0.58	333	48	0.00	10	0.00	208
1977	4309	0.43	1786	0.64	414	35	0.00	11	0.00	314
1978	860	0.08	309	0.09	359	20	0.00	7	0.00	350
1979	1516	0.15	623	0.16	411	53	0.00	22	0.00	415
1980	2694	0.24	1879	0.40	697	23	0.00	7	0.00	304
1981	4277	0.38	2659	0.54	622	6	0.00	3	0.00	500
1982	25183	2.06	9759	1.94	388	492	0.03	182	0.02	370
1983	31626	2.54	19869	3.74	628	40	0.00	18	0.00	450
1984	26703	2.09	15789	2.91	591	53	0.00	19	0.00	358
1985	27945	1.88	15920	2.76	570	65	0.00	0	0.00	0
1986	201329	12.29	44969	6.70	223	106	0.01	46	0.01	434

Contd...

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1987	2657	0.20	1102	0.15	415	30	0.00	10	0.00	333
1988	2605	0.21	930	0.14	357	9	0.00	1	0.00	111
1989	2552	0.21	939	0.16	368	0	0.00	0	0.00	0
1990	5544	0.45	2155	0.31	389	0	0.00	0	0.00	0
1991	8306	0.67	2124	0.27	256	0	0.00	0	0.00	0
1992	6935	0.56	2045	0.29	295	0	0.00	0	0.00	0
1993	11017	0.82	2714	0.36	246	50	0.00	8	0.00	160
1994	14813	0.98	3950	0.49	267	0	0.00	0	0.00	0
1995	21879	1.38	5642	0.61	258	0	0.00	0	0.00	0
1996	16862	1.12	4315	0.45	256	19	0.00	128	0.01	6737
1997	48799	2.90	14395	1.54	295	55	0.01	110	0.01	2000
1998	39010	2.25	15297	1.63	392	9	0.00	95	0.01	10556
1999	40523	2.47	14213	1.66	351	76	0.01	108	0.01	1421
2000	55686	3.39	16120	1.81	289	6	0.00	21	0.00	3500
2001	94518	5.33	24042	2.53	254	5	0.00	19	0.00	3800
2002	67730	3.80	20334	2.04	300	32	0.00	96	0.01	3000
2003	34789	1.58	13627	0.87	392	28	0.00	51	0.00	1821
2004	50975	2.26	15880	0.97	312	4	0.00	16	0.00	4000
2005	49860	2.15	19040	1.06	382	31	0.00	155	0.01	5000
2006	78509	3.03	43184	1.94	550	50	0.00	95	0.01	1900
2007	65856	2.39	36860	1.46	560	121	0.01	336	0.02	2777
2008	96455	3.04	57745	2.07	599	90	0.00	545	0.02	6056
2009	125946	3.95	71876	2.54	571	261	0.01	506	0.02	1939
2010	129582	4.14	75751	2.33	585	177	0.01	444	0.02	2508

Note: Vegetables fresh nes includes bamboo shoots (*Bambusa* spp.); beets, chards (*Beta vulgaris*); capers (*Capparis spinosa*); cardoons (*Cynara cardunculus*); celery (*Apium graveolens*); chervil (*Anthriscus cerefolium*); cress (*Lepidium sativum*); fennel (*Foeniculum vulgare*); horseradish (*Cochlearia armoracia*); marjoram, sweet (*Majorana hortensis*); oyster plant (*Tragopogon porrifolius*); parsley (*Petroselinum crispum*); parsnips (*Pastinaca sativa*); radish (*Raphanus sativus*); rhubarb (*Rheum* spp.); rutabagas, swedes (*Brassica napus*); savory (*Satureja hortensis*); scorzonera (*Scorzonera hispanica*); sorrel (*Rumex acetosa*); soybean sprouts tarragon (*Artemisia dracunculus*); watercress (*Nasturtium officinale*). Other vegetables that are not identified separately because of their minor relevance at the international level. Because of their limited local importance, some countries report vegetables under this heading that are classified individually by FAO. (Source: www.faostat.fao.org)

Table 3.35: India's trade in vegetables in vinegar

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1967	1717	1.52	680	2.34	396	0	0.00	0	0.00	0
1968	2531	2.25	1102	3.69	435	0	0.00	0	0.00	0
1969	2416	1.85	1046	3.05	433	0	0.00	1	0.00	0
1970	3383	2.10	1409	3.34	416	1	0.00	1	0.00	1000
1971	2965	1.62	1283	2.57	433	0	0.00	2	0.01	0
1972	2275	1.07	1144	1.83	503	0	0.00	0	0.00	0
1973	2723	1.12	1506	1.77	553	0	0.00	0	0.00	0
1974	3468	1.56	2195	2.53	633	8	0.01	12	0.02	1500
1975	3886	1.38	2767	2.13	712	0	0.00	0	0.00	0
1976	4236	1.57	2737	2.31	646	1	0.00	1	0.00	1000
1977	5898	2.23	4189	3.18	710	0	0.00	0	0.00	0
1978	6566	2.06	5194	3.02	791	1	0.00	2	0.00	2000
1979	6758	1.93	5965	2.90	883	1	0.00	0	0.00	0
1980	8387	2.22	8267	3.59	986	1	0.00	4	0.00	4000
1981	7778	2.23	8310	4.11	1068	0	0.00	0	0.00	0
1982	7104	1.95	6845	3.28	964	1	0.00	4	0.00	4000
1983	6323	1.49	6742	3.07	1066	7	0.00	1	0.00	143
1984	7521	1.82	6468	3.14	860	1	0.00	1	0.00	1000
1985	6509	1.54	5473	2.55	841	0	0.00	0	0.00	0
1986	7416	1.56	8903	3.38	1201	0	0.00	0	0.00	0
1987	7136	1.46	7181	2.34	1006	0	0.00	0	0.00	0
1988	7500	1.44	7051	2.12	940	0	0.00	0	0.00	0
1989	8947	1.79	8102	2.29	906	0	0.00	0	0.00	0

Contd....

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1990	7822	1.62	7149	1.66	914	0	0.00	0	0.00	0
1991	11005	2.28	10776	2.23	979	0	0.00	0	0.00	0
1992	10130	1.86	10887	2.09	1075	0	0.00	0	0.00	0
1993	13106	2.20	11562	2.12	882	0	0.00	0	0.00	0
1994	17719	2.44	15920	2.36	898	0	0.00	0	0.00	0
1995	15597	2.37	16291	2.44	1044	0	0.00	0	0.00	0
1996	18390	2.68	15801	2.35	859	0	0.00	0	0.00	0
1997	24372	3.32	20710	3.10	850	26	0.00	37	0.01	1423
1998	21138	3.09	18230	3.00	862	39	0.01	59	0.01	1513
1999	26738	3.74	20901	3.38	782	31	0.00	78	0.01	2516
2000	40704	5.54	30387	5.05	747	22	0.00	41	0.01	1864
2001	38759	4.67	26797	4.03	691	232	0.03	121	0.02	522
2002	56384	6.05	31703	4.29	562	1109	0.12	949	0.11	856
2003	79828	7.84	38754	4.53	485	1518	0.15	1276	0.13	841
2004	83597	7.43	39624	4.01	474	45	0.00	244	0.02	5422
2005	156381	12.72	76356	7.36	488	32	0.00	175	0.01	5469
2006	180019	14.56	90465	8.21	503	67	0.00	204	0.02	3045
2007	171109	13.48	94385	7.49	552	106	0.01	256	0.02	2415
2008	230869	17.72	143957	9.91	624	426	0.03	555	0.04	1303
2009	214105	15.51	136265	9.39	636	1073	0.09	1307	0.08	1218
2010	205123	15.17	129367	8.93	631	858	0.07	999	0.06	1164

Note: Vegetables in vinegar includes vegetables, fruits, nuts and other edible parts of plants, prepared or preserved with vinegar or acetic acid, with or without added sugar, salt, spices, etc. They also include pickles. (Source: www.faostat.fao.org)

Table 3.36: India's trade in vegetables preserved nes

Year	(Quantity in t; value in '000 US\$; unit value in US\$/t)				(Quantity in t; value in '000 US\$; unit value in US\$/t)			
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import
1961	1966	0.60	1598	1.56	71	0.02	58	0.04
1962	2087	0.52	1009	0.86	36	0.01	26	0.02
1963	2234	0.49	1225	0.93	41	0.01	34	0.02
1964	2279	0.44	1433	0.97	33	0.00	47	0.02
1965	2162	0.39	1062	0.71	85	0.01	41	0.02
1966	2067	0.30	846	0.40	3	0.00	3	0.00
1967	107	0.01	34	0.01	2	0.00	3	0.00
1968	193	0.02	55	0.02	8	0.00	4	0.00
1969	241	0.03	78	0.03	0	0.00	1	0.00
1970	150	0.02	52	0.02	2	0.00	1	0.00
1971	102	0.01	97	0.03	5	0.00	3	0.00
1972	72	0.01	56	0.01	0	0.00	0	0.00
1973	92	0.01	35	0.01	0	0.00	0	0.00
1974	121	0.01	63	0.01	0	0.00	0	0.00
1975	111	0.01	66	0.01	0	0.00	0	0.00
1976	178	0.01	145	0.02	0	0.00	0	0.00
1977	548	0.03	405	0.04	0	0.00	1	0.00
1978	367	0.02	323	0.03	3	0.00	10	0.00
1979	330	0.02	249	0.02	0	0.00	1	0.00
1980	818	0.05	652	0.05	3	0.00	4	0.00
1981	1041	0.06	845	0.06	2	0.00	3	0.00
1982	432	0.02	538	0.05	0	0.00	4	0.00
1983	511	0.03	445	0.04	3	0.00	11	0.00
1984	514	0.03	391	0.04	0	0.00	0	0.00

Contd...

Year	Export Quantity	% share in world export	Export Value	% share in world export	Unit Value	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1985	570	0.03	482	0.05	846	0	0.00	0	0.00	0
1986	203	0.01	167	0.01	823	2	0.00	6	0.00	3000
1987	134	0.01	132	0.01	985	12	0.00	36	0.00	3000
1988	65	0.00	70	0.00	1077	8	0.00	17	0.00	2125
1989	89	0.00	92	0.01	1034	0	0.00	0	0.00	0
1990	76	0.00	68	0.00	895	4	0.00	12	0.00	3000
1991	223	0.01	219	0.01	982	1	0.00	4	0.00	4000
1992	253	0.01	290	0.01	1146	4	0.00	15	0.00	3750
1993	92	0.00	85	0.00	924	1	0.00	10	0.00	10000
1994	114	0.00	117	0.00	1026	12	0.00	16	0.00	1333
1995	955	0.04	424	0.02	444	0	0.00	0	0.00	0
1996	140	0.01	187	0.01	1336	2	0.00	2	0.00	1000
1997	172	0.01	133	0.01	773	2	0.00	5	0.00	2500
1998	237	0.01	164	0.01	692	39	0.00	54	0.00	1385
1999	91	0.00	92	0.00	1011	27	0.00	60	0.00	2222
2000	258	0.01	205	0.01	795	37	0.00	85	0.00	2297
2001	551	0.02	552	0.02	1002	134	0.00	226	0.01	1687
2002	1073	0.03	1042	0.04	971	179	0.01	427	0.01	2385
2003	2345	0.07	2053	0.06	875	100	0.00	451	0.01	4510
2004	3289	0.10	2901	0.07	882	137	0.00	425	0.01	3102
2005	9182	0.26	8073	0.19	879	117	0.00	748	0.02	6393
2006	15827	0.40	14484	0.30	915	433	0.01	1808	0.04	4176
2007	13945	0.36	14850	0.27	1065	317	0.01	1016	0.02	3205
2008	13637	0.35	15427	0.26	1131	320	0.01	1075	0.02	3359
2009	17862	0.49	18194	0.33	1019	339	0.01	766	0.01	2260
2010	14665	0.37	18971	0.33	1294	333	0.01	795	0.01	2387

Note: Vegetables prepared or preserved by vinegar which have not been frozen. (Source: www.faostat.fao.org)

Section-IV

Crop-wise Vegetable Statistics

Potato

Table 4.1: Area, production and yield of potato

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	22.15	270.55	12.22	375.00	2719.00	7.25
1962	22.12	252.99	11.44	365.00	2447.00	6.70
1963	21.99	269.98	12.28	413.00	3365.00	8.15
1964	21.73	284.68	13.10	415.00	2593.00	6.25
1965	21.39	270.91	12.66	429.00	3605.00	8.40
1966	21.49	281.96	13.12	479.00	4076.00	8.51
1967	21.40	296.22	13.84	473.30	3521.50	7.44
1968	21.20	303.71	14.33	501.40	4232.30	8.44
1969	20.68	278.48	13.47	524.40	4725.50	9.01
1970	20.77	298.05	14.35	496.00	3912.60	7.89
1971	20.38	279.49	13.72	481.90	4807.20	9.98
1972	20.29	272.14	13.41	491.90	4825.50	9.81
1973	20.09	307.16	15.29	504.60	4451.00	8.82
1974	20.16	284.78	14.13	543.40	4861.10	8.95
1975	19.85	270.38	13.62	587.40	6225.40	10.60
1976	19.06	272.75	14.31	622.40	7306.00	11.74
1977	19.08	279.67	14.66	619.60	7170.70	11.57
1978	19.15	291.16	15.20	665.30	8135.40	12.23
1979	19.23	297.92	15.50	807.10	10133.00	12.55
1980	18.79	240.49	12.80	685.20	8326.60	12.15
1981	18.79	267.78	14.25	732.00	9670.00	13.21
1982	18.74	265.14	14.15	762.70	9911.80	13.00
1983	18.68	264.47	14.16	735.00	9956.00	13.55
1984	18.67	290.95	15.58	794.30	12151.80	15.30
1985	18.43	281.60	15.28	849.00	12570.60	14.81
1986	18.12	286.61	15.81	843.00	10422.80	12.36
1987	17.97	279.42	15.54	831.50	12740.30	15.32
1988	18.11	268.60	14.84	885.10	14046.00	15.87
1989	18.01	276.58	15.35	932.70	14857.00	15.93
1990	17.66	266.83	15.11	940.00	14770.80	15.71
1991	17.66	257.55	14.58	935.50	15205.60	16.25

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Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1992	18.48	279.66	15.14	1135.10	18195.00	16.03
1993	18.47	304.87	16.51	1240.00	18479.00	14.90
1994	18.06	271.23	15.02	1047.10	17392.40	16.61
1995	18.37	286.22	15.58	1069.40	17401.30	16.27
1996	18.72	312.08	16.67	1109.00	18843.30	16.99
1997	18.78	303.69	16.17	1248.80	24215.90	19.39
1998	18.84	301.12	15.99	1208.90	17652.30	14.60
1999	19.70	299.89	15.22	1280.20	22494.70	17.57
2000	20.09	327.60	16.31	1340.90	25000.10	18.64
2001	19.68	311.24	15.81	1211.30	22242.70	18.36
2002	19.16	316.44	16.51	1259.50	24456.10	19.42
2003	19.13	314.86	16.46	1337.20	23161.40	17.32
2004	19.22	336.20	17.49	1484.70	27925.80	18.81
2005	19.36	326.75	16.88	1523.90	28787.70	18.89
2006	18.42	307.34	16.69	1569.20	29174.60	18.59
2007	18.66	323.92	17.36	1742.80	28599.60	16.41
2008	18.17	329.91	18.15	1796.00	34658.00	19.30
2009	18.62	333.96	17.93	1828.30	34390.90	18.81
2010	18.77	334.26	17.81	1835.30	36577.30	19.93
2011	19.25	374.38	19.45	1863.20	42339.40	22.72
ACGR for last ten years (2002-2011)	-0.26	1.21	1.47	4.57	6.07	1.43

(Source: www.faostat.fao.org)

Table 4.2: Major potato producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total area under potato in the world	Production (000't)	% share to total potato production in the world	Productivity (t/ha)
China	5077.5	27.3	74799.1	22.7	14.7
India	1863.0	10.0	42339.0	12.8	22.7
Russia	2109.1	11.3	21140.5	6.4	10.0
Ukraine	1408.0	7.6	18705.0	5.7	13.3
USA	406.6	2.2	18016.2	5.5	44.3
Germany	255.2	1.4	10201.9	3.1	40.0
Poland	490.9	2.6	8766.0	2.7	17.9
Bangladesh	435.0	2.3	7930.0	2.4	18.2
Belarus	366.8	2.0	7831.1	2.4	21.4
Netherlands	157.0	0.8	6843.5	2.1	43.6
Others	6061.2	32.5	113474.8	34.4	18.7
Total	18630.2	100	330047.1	100	17.7

(Source:NHB, National Horticulture Database 2011)

Table 4.3: Percent share of potato for area and production of vegetables in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
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

(Source:NHB, National Horticulture Database 2011)

Table 4.4: State-wise area, production and productivity of potato in India (2011-2012)

State	Area('000 ha)	Production('000 t)	Yield(t/ha)
Andhra Pradesh	4.92	98.38	20.00
Arunachal Pradesh	4.60	40.00	8.70
Assam	89.38	783.40	8.76
Bihar	315.17	6,101.69	19.36
Chhattisgarh	41.20	579.18	14.06
Delhi	0.71	16.75	23.59
Gujarat	80.70	2,395.54	29.68
Haryana	27.82	618.85	22.24
Himachal Pradesh	16.00	206.22	12.89
Jammu & Kashmir	6.91	127.24	18.41
Jharkhand	45.75	652.79	14.27
Karnataka	45.40	483.00	10.64
Kerala	0.32	5.44	17.00
Madhya Pradesh	87.98	1,816.68	20.65
Maharashtra	18.00	360.00	20.00
Meghalaya	17.84	164.75	9.23
Mizoram	0.20	2.52	12.60
Nagaland	2.90	20.15	6.95
Odisha	14.19	201.05	14.17
Punjab	84.11	2,103.97	25.01
Rajasthan	11.86	178.02	15.01
Sikkim	9.77	47.09	4.82
Tamil Nadu	4.91	104.89	21.36
Tripura	6.90	122.96	17.82
Uttar Pradesh	567.66	14,125.08	24.88
Uttarakhand	25.03	433.82	17.33
West Bengal	376.75	9,693.33	25.73
India	1,906.98	41,482.79	21.75

(Source: www.nhrdf.com)

Table 4.5: District-wise area (A), production (P) and yield (Y) of potato

[Area (A) in ha; Production (P) in t; Yield (Y) in t/ha]

Gujarat

District	2007-08			2008-09			2009-10		
	A	P	Y	A	P	Y	A	P	Y
Ahmedabad	38	1026	27.00	31	841	27.13	33	924	28
Banaskantha	33400	1002000	30.00	28000	784000	28.00	28500	826500	29
Gandhinagar	4242	131502	31.00	4260	132060	31.00	4407	145431	33
Jamnagar	2150	26875	12.50	900	12150	13.50	950	16435	17.3
Kutch	275	6875	25.00	260	4680	18.00	266	5053	19
Kheda	6586	19780	3.00	6489	97335	15.00	6813	136260	20
Anand	6600	2178	0.33	5800	145000	25.00	6000	198000	33
Mehsana	5300	116600	22.00	5065	101300	20.00	5290	107948	20.41
Patan	242	5324	22.00	235	5289	22.51	560	12740	22.75
Panchmahal	150	3300	22.00	158	2370	15.00	200	3000	15
Sabarkantha	5300	159000	30.00	5000	150000	30.00	6300	189630	30.1
Baroda	875	18375	21.00	685	12330	18.00	664	13280	20
Total	65213	1493905	22.91	56960	1448825	25.44	60079	1657007	27.58

Haryana

District	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Panchkula	950	19120	21.24	900	22939	25.49	1060	26334	24.84
Ambala	3130	33426	10.68	4010	62757	15.65	4085	82093	20.1
Yamuna Nagar	3075	59286	19.28	3040	74961	24.66	3310	78194	23.62
Kurukshetra	6573	175233	26.66	6062	163210	26.92	7515	171772	22.86
Kaithal	550	8676	15.77	400	8036	20.09	500	10821	21.64
Karnal	2383	49917	20.95	2416	39692	16.43	2880	61127	21.22
Panipat	1300	33542	25.8	1300	23903	18.39	1510	28500	18.87
Sonipat	1350	30647	22.7	1510	34135	22.61	1710	46358	27.11
Rohtak	500	6146	12.29	645	6753	10.47	660	13730	20.8
Jhajjar	200	4539	22.7	160	3440	21.5	150	2888	19.25
Faridabad	740	16846	22.76	270	5997	22.21	550	10855	19.74
Narnaul	15	317	21.13	22	473	21.5	50	1117	22.34
Rewari	12	254	21.17	12	258	21.5	20	447	22.35
Gurgaon	70	1481	21.16	70	1504	21.49	100	2234	22.34
Bhiwani	130	1926	14.82	85	1826	21.48	75	1675	22.33
Hisar	510	7723	15.14	480	8840	18.42	580	9541	16.45
Fatehabad	605	17477	28.89	510	11935	23.4	600	17651	29.42
Sirsa	472	8265	17.51	380	5669	14.92	423	7616	18
Jind	630	14605	23.18	610	15200	24.92	810	20923	25.83

Contd...

District	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Mewat	30	634	21.13	52	1117	21.48	55	1228	22.33
Palwal	0	0	0	100	2148	21.48	137	3060	22.34
Total	23175	490060	21.15	23034	494793	21.48	26780	598164	22.34

Punjab

District	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Hoshiarpur	16388	373876	22.81	16789	403876	24.06	16794	410781	24.46
Jalandhar	19005	490595	25.82	19475	530596	27.24	19514	504242	25.84
Ludhiana	5256	134659	25.62	5414	144657	26.72	5424	138008	25.44
Ferozepur	945	20922	22.14	973	21544	22.14	984	22784	23.15
Amritsar	4974	126539	25.44	5023	127805	25.44	5076	129215	25.46
Gurdaspur	1074	24933	23.21	1106	25680	23.22	1114	26085	23.42
Kapurthala	6990	177896	22.45	7200	187898	26.10	7240	184026	25.42
Bathinda	5985	150433	25.13	6056	152456	25.14	6084	148583	24.42
Sangrur	335	7556	22.55	345	7783	22.56	349	8325	23.85
Patiala	4110	99725	24.26	4233	102718	24.27	4244	105005	24.74
Ropar	858	19262	22.45	884	19848	22.45	894	20986	23.47
Faridkot	345	7414	21.49	350	7522	21.49	354	7970	22.51
Mansa	155	3211	20.71	160	3314	20.71	172	3924	22.82
F.G. Sahib	3842	98793	25.72	3955	101707	25.72	3966	98412	24.81
Moga	5500	138243	25.13	5605	148242	26.17	5742	145904	25.41
Mukatsar	160	3397	21.23	165	3503	21.23	182	4066	22.34
Nzwanshehar	2174	53230	24.48	2239	54824	24.49	2248	55119	24.52
Mohali	1250	30351	24.28	1288	31277	24.28	1304	31700	24.31
Taran Tarn	780	18310	23.47	803	18850	23.47	874	21077	24.12
Barnala	956	21759	22.76	985	22419	22.76	1014	22146	21.84
Total	81082	2001104	24.68	83117	2116520	25.46	83573	2088358	24.99

Uttar Pradesh

Division	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Saharanpur	2477	50892	20.546	2347	58187	24.792	3011	73453	24.395
Meerut	17192	358453	20.850	17444	393118	22.536	16896	360949	21.363
Agra	122194	2960937	24.231	123279	3333209	27.038	133672	3699484	27.676
Aligarh	65918	1471564	22.324	69179	1938609	28.023	81481	2301473	28.246
Bareilly	28915	431990	14.940	25745	590101	22.921	28316	581327	20.530
Muradabad	17286	361018	20.885	13832	334223	24.163	15558	378651	24.338

Contd...

Division	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Kanpur	106148	2481171	23.375	107443	2716589	25.284	110152	2619191	23.778
Allahabad	28340	458428	16.176	29763	566122	19.021	30130	617334	20.489
Jhansi	1314	26997	20.546	1181	29279	24.792	1323	32275	24.395
Chitrakoot Dham	643	13211	20.546	650	16115	24.792	779	19004	24.395
Varanasi	21977	301898	13.737	22138	479133	21.643	23161	409116	17.664
Mirzapur	3436	70596	20.546	3676	91135	24.792	3962	96653	24.395
Azamgarh	13720	270133	19.689	14562	306428	21.043	15723	468011	29.766
Gorakhpur	10320	120630	11.689	9946	246581	24.792	10706	191691	17.905
Basti	6066	124632	20.546	6220	154206	24.792	6392	155933	24.395
Shri Patan devi	7566	155451	20.546	7182	178056	24.792	7464	182084	24.395
Lucknow	34510	595884	17.267	34286	836338	24.393	37562	728214	19.387
Faziabad	29615	381471	12.881	29431	582469	19.791	30245	661730	21.879
Total	517637	10635356	20.546	518304	12849898	24.792	556533	13576573	24.395

(Source: State Horticulture Mission, Government of Uttar Pradesh)

West Bengal

District	2007-08			2008-09			2009-10		
	A	P	Y	A	P	Y	A	P	Y
Darjeeling	7174	109189	15.22	7318	123995	16.94	7600	149374	19.65
Jalpaiguri	32507	905789	27.86	30087	506684	16.84	32326	904993	28.00
Coochbehar	18639	478949	25.69	27505	340272	12.37	27877	845019	30.31
Uttar Dinajpur	8705	247306	28.41	9054	166522	18.39	9693	282039	29.10
Dakhin Dinajpur	3884	92451	23.80	4841	86286	17.82	5379	151092	28.09
Malda	2877	75975	26.41	3565	52674	14.77	4416	151832	34.38
Murshidasbad	14667	269918	18.40	12203	119996	9.83	11899	370671	31.15
Nadia	5572	114188	20.49	5039	85192	16.91	5008	153624	30.67
North 24-Parganas	10706	233062	21.77	6914	126976	18.36	7593	254965	33.58
South-24-Parganas	2798	49465	17.68	2587	47973	18.54	3008	63657	21.16
Howrah	8032	231271	28.79	6644	66045	9.94	6715	242614	36.13
Hooghly	94824	2465212	26.00	94759	881590	9.30	91290	3434459	37.62
Burdwan	54359	1332880	24.52	55655	495783	8.91	55166	2268242	41.12
Birbhum	17798	393540	22.11	18702	140142	7.49	17671	613243	34.70
Bankura	41900	941729	22.48	32649	233454	7.15	32814	1350135	41.14
Purulia	1123	9322	8.30	767	16512	21.53	1187	24924	21.00
Paschim Midnapur	70653	1874358	26.53	63622	557342	8.76	62679	2448136	39.06
Purba Midnapur	4568	76242	16.69	4070	73751	18.12	4560	129110	28.31
Total	400786	9900846	24.70	385981	4121189	10.68	386881	13838129	35.77

Table 4.6: India's trade in potato

Year	Export			Import		
	Export Quantity	% share in world export	Export Value	Import Quantity	% share in world import	Import Value
1961	8786	0.32	870	1325	0.05	196
1962	11400	0.34	1261	1151	0.03	163
1963	17558	0.60	1457	827	0.03	122
1964	427	0.01	53	2428	0.07	335
1965	2036	0.05	232	1598	0.04	192
1966	1467	0.04	129	799	0.02	62
1967	593	0.02	67	3018	0.09	309
1968	1606	0.05	134	1272	0.04	146
1969	2794	0.08	201	1307	0.04	101
1970	583	0.02	57	2182	0.06	179
1971	2292	0.07	196	710	0.02	108
1972	3128	0.06	285	1002	0.02	117
1973	3810	0.10	301	448	0.01	47
1974	3766	0.10	401	383	0.01	79
1975	12187	0.31	1208	758	0.02	87
1976	52063	1.19	7533	1085	0.03	118
1977	18215	0.39	2566	934	0.02	159
1978	2077	0.05	283	390	0.01	76
1979	22361	0.48	3015	232	0.01	29
1980	10255	0.21	2133	534	0.01	131
1981	7218	0.15	1344	408	0.01	99
1982	7025	0.14	1428	198	0.00	21
1983	2499	0.05	527	37	0.00	33
1984	3942	0.08	674	409	0.01	119
1985	3968	0.08	628		0.00	

Contd...

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1986	1891	0.03	418	0.05	369	0.01	51	0.01	138.21
1987	3170	0.05	553	0.05	238	0.00	33	0.00	138.66
1988	2998	0.05	356	0.03		0.00		0.00	
1989	4355	0.06	713	0.06		0.00		0.00	
1990	2496	0.04	414	0.03		0.00		0.00	
1991	4692	0.06	355	0.02	22	0.00	2	0.00	90.91
1992	5674	0.07	461	0.03	32	0.00	2	0.00	62.50
1993	7449	0.10	753	0.06	44	0.00	2	0.00	45.45
1994	25814	0.32	4282	0.24	56	0.00	4	0.00	71.43
1995	35609	0.48	6106	0.26	313	0.00	13	0.00	41.53
1996	25409	0.35	4976	0.30	773	0.01	85	0.00	109.96
1997	21316	0.31	2567	0.20	2926	0.04	506	0.03	172.93
1998	8262	0.10	1348	0.08	61	0.00	4	0.00	65.57
1999	36707	0.46	4160	0.23	18	0.00	1	0.00	55.56
2000	25361	0.33	2926	0.23	1192	0.01	107	0.01	89.77
2001	11531	0.14	1064	0.07	183	0.00	11	0.00	60.11
2002	30066	0.37	2891	0.18	0	0.00	0	0.00	
2003	72941	0.80	6670	0.36	2329	0.02	264	0.01	113.35
2004	67159	0.74	7322	0.33	4813	0.05	609	0.03	126.53
2005	78378	0.88	9747	0.52	2408	0.03	449	0.02	186.46
2006	92184	0.95	13469	0.50	47	0.00	10	0.00	212.77
2007	81627	0.78	11021	0.32	120	0.00	30	0.00	250.00
2008	196390	1.91	29390	0.86	0	0.00	0	0.00	
2009	96633	0.95	16401	0.54	0	0.00	0	0.00	
2010	173864	1.53	28624	0.79	0	0.00	0	0.00	

(Source: www.faostat.fao.org)

Tomato

Table 4.7: Area, production and yield of tomatoes

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	1.68	27.62	16.4	50	464	9
1962	1.72	29.13	17.0	52	480	9
1963	1.68	28.16	16.7	53	495	9
1964	1.71	29.83	17.5	55	510	9
1965	1.68	30.46	18.1	57	525	9
1966	1.74	31.78	18.3	58	540	9
1967	1.78	33.46	18.8	60	560	9
1968	1.83	35.33	19.3	62	580	9
1969	1.83	34.56	18.9	63	600	10
1970	1.86	35.88	19.3	65	620	10
1971	1.90	37.72	19.9	67	640	10
1972	1.97	38.45	19.5	69	650	9
1973	2.04	41.63	20.4	70	660	9
1974	2.13	44.78	21.0	90	750	8
1975	2.21	47.05	21.3	100	830	8
1976	2.19	45.04	20.6	115	1050	9
1977	2.28	47.08	20.7	120	1020	9
1978	2.35	50.75	21.6	100	950	10
1979	2.45	54.84	22.4	150	1300	9
1980	2.44	52.65	21.5	160	1500	9
1981	2.48	54.31	21.9	190	1800	9
1982	2.52	57.58	22.9	180	1750	10
1983	2.57	59.55	23.2	200	2000	10
1984	2.65	64.08	24.2	230	2100	9
1985	2.72	65.35	24.1	260	2300	9
1986	2.68	65.22	24.3	250	2280	9
1987	2.77	66.09	23.8	294	2387	8
1988	2.82	67.38	23.9	236	3103	13
1989	3.04	74.61	24.6	344	4600	13
1990	2.90	76.31	26.3	290	4603	16
1991	2.86	76.09	26.6	289	4244	15
1992	2.94	74.99	25.5	309	4850	16
1993	3.02	77.91	25.8	310	5000	16
1994	3.15	83.13	26.4	350	4930	14
1995	3.27	87.44	26.7	350	5260	15
1996	3.42	93.54	27.4	351	6000	17

Contd...

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1997	3.40	89.83	26.4	400	7000	18
1998	3.68	95.98	26.1	410	6180	15
1999	3.98	109.12	27.4	470	8270	18
2000	4.03	110.03	27.3	460	7430	16
2001	3.99	107.94	27.1	460	7240	16
2002	4.14	116.14	28.0	458	7462	16
2003	4.18	119.04	28.5	479	7617	16
2004	4.46	127.56	28.6	503	8126	16
2005	4.56	127.92	28.0	505	8825	17
2006	4.63	131.19	28.1	546	9820	18
2007	4.26	137.69	32.8	596	10055	17
2008	4.23	141.07	33.3	566	10303	18
2009	4.54	154.39	33.9	599	11149	19
2010	4.53	152.06	33.6	634	12433	19
2011	4.73	159.02	33.6	865	16826	19
ACGR for last ten years (2002-2011)	0.58	3.53	2.93	5.60	8.08	2.34

(Source: www.faostat.fao.org)

Table 4.8: Major tomato producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total area under tomato in the world	Production (000't)	% share to total tomato production in world	Productivity (t/ha)
China	871.2	19.0	41879.7	27.8	48.1
India	865.0	18.9	16826.0	11.2	19.5
USA	159.2	3.5	12902.0	8.6	81.0
Turkey	304.0	6.6	10052.0	6.7	33.1
Egypt	216.4	4.7	8545.0	5.7	39.5
Italy	118.8	2.6	6024.8	4.0	50.7
Iran	147.0	3.2	5256.1	3.5	35.8
Spain	58.3	1.3	4310.7	2.9	74.0
Brazil	60.8	1.3	3691.3	2.5	60.7
Mexico	98.2	2.1	2997.7	2.0	30.5
Others	1683.6	36.7	38026.6	25.3	22.6
Total	4582.4	100.0	150513.8	100.0	32.8

(Source: NHB, National Horticulture Database 2011)

Table 4.9: Percent share in area production and productivity of tomato in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
1987-88	237.3	5.8	3330.5	6.8	14
1991-92	289.1	5.2	4243.4	7.2	14.7
1992-93	305.6	6.1	4549.6	7.1	14.9
1993-94	345.9	7.1	4934	7.5	14.3
1994-95	351.8	7	5261.3	7.8	15
1995-96	355.7	6.7	5442	7.6	15.3
1996-97	391.2	7.1	5787.8	7.7	14.8
1997-98	413.7	7.4	6183.7	8.5	14.9
1998-99	466.3	7.8	8271.8	9.4	17.7
1999-00	456.5	7.6	7426.8	8.2	16.3
2000-01	460.1	7.4	7242.4	7.7	15.7
2001-02	458.1	7.4	7462.3	8.4	16.3
2002-03	478.8	7.9	7616.7	9	15.9
2003-04	502.8	8	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
2006-07	596	7.9	10055	8.7	16.9
2007-08	566	7.2	10303	8	18.2
2008-09	599	7.5	11149	8.6	18.6
2009-10	634.4	7.9	12433.2	9.3	19.6
2010-11	865	10.2	16826	11.5	19.5

(Source:www.indiastat.com)

Table 4.10: State-wise area, production and yield of tomato in India from 2001-02 to 2010-11

[Area (A): 000'ha, Production (P): 000't; Yield (Y): t/ha]

States/UTs	2001-02			2002-03			2003-04			2004-05			2005-06		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Andhra Pradesh	74.4	744.0	10	79.4	794.0	10	77.1	925.2	12	69.5	1251.0	18	76.5	1453.5	19
Assam	13.7	319.2	23.3	13.9	323.9	23.3	14	326.2	23.3	14.2	330.9	23.3	-	330.2	-
Bihar	47	752.0	16	47.2	755.2	16	45.3	588.9	13	46	736.0	16	46	727.2	15.8
Chhattisgarh	18.3	292.8	16	19.2	288.0	15	20.2	303.0	15	20.7	217.4	10.5	29.2	217.6	12.5
Dadra & Nagar Haveli	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Delhi	-	-	-	-	-	-	-	-	-	-	-	-	-	33.6	-
Gujarat	20.9	269.6	12.9	18.8	321.5	17.1	18.8	321.5	17.1	22.8	421.8	18.5	29.3	421.9	22.2
Haryana	-	-	-	-	-	-	-	-	-	13.8	220.8	16	17.1	219.7	15
Himachal Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-	301	-
Jammu & Kashmir	-	-	-	-	-	-	-	-	-	-	-	-	-	60.3	-
Jharkhand	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-
Karnataka	40.2	1141.7	28.4	35.5	955.0	26.9	37	1024.9	27.7	43.2	1140.5	26.4	44.5	1106.9	26.7
Madhya Pradesh	-	-	-	-	-	-	21	315.0	15	20.4	306.7	15	20.4	306.7	15
Maharashtra	35.6	1181.9	33.2	31.2	836.2	26.8	32.1	892.4	27.8	33.5	884.4	26.4	35	987	28.2
Manipur	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-
Mizoram	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	-
Nagaland	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-
Odisha	56	672.0	12	100	1320.0	13.2	100.2	1332.7	13.3	100.3	1334.0	13.3	100.4	1330.8	13.3
Puducherry	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	-
Punjab	-	-	-	-	-	-	-	-	-	-	-	-	-	187.3	-
Rajasthan	-	-	-	-	-	-	-	-	-	-	-	-	-	54.5	-
Sikkim	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
Tamil Nadu	-	-	-	-	-	-	-	-	-	25.3	321.3	12.7	22	321.5	12.6
Tripura	-	-	-	-	-	-	-	-	-	-	-	-	-	NA	-
Uttar Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-	194.4	-
Uttarakhand	-	-	-	-	-	-	-	-	-	-	-	-	-	95	-
West Bengal	43.7	590.0	13.5	44.6	628.9	14.1	47.6	747.3	15.7	46.1	696.1	15.1	50	679.8	17.2
Others	108.3	0.0	-	89	0.0	-	124.5	1992.0	16	63.3	1291.3	20.4	64.1	-	15
Total India	458.1	5963.2	18.4	478.8	6222.5	18.0	516.8	8454.0	18.1	519.7	9160.4	17.8	534.5	9041.8	17.7

Table continues

States/UTs	2006-07			2007-08			2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Andhra Pradesh	81.1	1540.9	19	74.1	1408.1	19	74.1	1408.1	19	87	1652.1	19	296.3	5926.21	20
Assam	0	-	-	-	0	-	15.6	297.1	-	-	379.5	-	-	387.24	-
Bihar	46.2	910.14	19.7	46.2	921.9	20	46.4	1037.2	22.4	46.5	1043.7	22.4	46.8	1056.24	22.6
Chhattisgarh	75.6	476.28	6.3	37.7	404.1	10.7	39.2	420.4	10.7	41.3	600.6	14.5	42.9	627.87	14.6
Dadra & Nagar Haveli	-	-	-	-	1.8	-	0.35	1.8	-	0.4	1.8	-	-	1.8	-
Delhi	-	-	-	-	31.4	-	1.7	35	-	1.7	35	-	-	30.95	-
Gujarat	28.5	675.45	23.7	30.8	739.6	24	30.5	746.2	24.4	33.8	841.3	24.9	38.8	978.44	25.2
Haryana	22.5	0	-	-	202.3	-	22	316.3	-	22.7	379.8	-	-	392.36	-
Himachal Pradesh	-	-	-	-	317.7	-	9.6	336.3	-	9.6	383.8	-	-	388.43	-
Jammu & Kashmir	-	-	-	-	37	-	3.5	79.3	-	8.1	122.1	-	-	136.59	-
Jharkhand	15.4	308	20	17.5	350.2	20	21.8	436.1	20	21.8	436.2	20	22.3	401.56	18
Karnataka	45.8	1309.8	28.6	50.9	1498.8	29.5	53.4	1573.8	29.5	48.3	1580	32.7	51.2	1756.7	34.3
Madhya Pradesh	22	330	15	22.7	340.5	15	30	450.6	-	35.3	291.6	-	-	346.91	-
Maharashtra	30.7	681.54	22.2	32.2	715.3	22.2	33	732.3	22.2	50	1112.5	22.3	52	738	14.2
Manipur	-	-	-	-	15.1	-	1.8	23.1	-	1.8	23.1	-	-	28.57	-
Mizoram	-	-	-	-	0.3	-	0.6	5	-	0.6	6.7	-	-	6.18	-
Nagaland	-	-	-	-	4	-	0.7	4	-	0.7	4	-	-	4	-
Odisha	100.6	1337.9	13.3	100.7	1344.2	13.3	101.1	1360.5	13.5	102.9	1394.7	13.6	96.6	1367.17	14.1
Puducherry	-	-	-	-	0.4	-	0.1	0.7	-	0.1	0.7	-	-	0.07	-
Punjab	-	-	-	-	202.3	-	6.1	148.9	-	6.2	151	-	-	154.46	-
Rajasthan	-	-	-	-	55.5	-	12.6	45.5	-	17	37.5	-	-	67.47	-
Sikkim	-	-	-	-	4.4	-	1.1	7.1	-	0	0	-	-	8.05	-
Tamil Nadu	23.8	0	-	-	307	-	26.5	334.6	-	27.1	519.1	19.9	27.2	580.59	21.4
Tripura	-	-	-	-	28.7	-	1.3	24.9	-	1.3	29.6	-	-	30.15	-
Uttar Pradesh	-	-	-	-	323.2	-	5.8	232.1	-	6.2	252.9	-	-	248.63	-
Uttarakhand	-	-	-	-	92.2	-	7.6	92.5	-	7.6	95.6	-	-	97.08	-
West Bengal	51	872.1	17.1	51.1	956.7	18.7	52.3	999.7	19.1	53.5	1050	19.6	54.1	1063.65	19.6
Others	-	-	-	125.1	1963	15.7	147.2	2434.7	16.5	123.2	2203	17.9	136.6	2330.1	17.1
Total India	543.2	8442.3	18.3	589.0	12265.7	18.9	745.9	13583.8	19.7	754.7	14627.9	20.6	864.8	19155.5	20.1

(Source: www.indiastat.com)

Table 4.11: District-wise area production and yield of tomato
Andhra Pradesh (2006-07)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Srikakulam	348	6612	19
Vijaya Nagaram	585	11115	19
Vishakhapatnam	2408	45752	19
East Godavari	962	18278	19
West Godavari	458	8702	19
Krishna	1707	32433	19
Guntur	778	14782	19
Prakasam	16000	304000	19
Nellore	60	1140	19
Coastal Area	23306	442814	19
Chittoor	13529	257051	19
Cuddapa	1264	24016	19
Anatapuram	632	12008	19
Karnool	11050	209950	19
Rayalaseema Region	26475	503025	19
Andhra Region	49781	945839	19
Mehaboob Nagar	3500	66500	19
Ranga Reddy	6877	130663	19
Medak	3790	72010	19
Nizamabad	2469	46911	19
Adilabad	11231	213389	19
Karim Nagar	1280	24320	19
Warangal	432	8208	19
Khamam	1400	26600	19
Nalgonda	309	5871	19
Telangana Region	31288	594472	19
Andhra Pradesh	81069	1540311	19

(Source: www.indiastat.com)

Bihar (2005-06)

Patna	1812	29354	16
Nalanda	1853	30389	16
Bhojpur	1008	15523	15
Buxar	723	10990	15
Rohtas	804	11738	15
Kaumur	588	8350	14
Gaya	872	12731	15
Jehanabad	749	10935	15

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Arwal	397	5796	15
Nawadah	792	11088	14
Aurangabad	1541	21574	14
Saran	1556	22406	14
Siwan	1318	18452	14
Gopatganj	1496	21842	15
Mujaffarpur	3529	56464	16
E.Champaran	1758	26661	15
W.Champaran	1928	29884	16
SitamatTii	1482	23119	16
Sheohar	561	8303	15
Vaishali	3766	64762	17
Darbhangha	1459	28344	19
Madhubani	1238	18570	15
Samastipur	1683	27770	17
Begusarai	1806	29799	17
Munger	609	9744	16
Sheikhpura	211	3165	15
Lakhisarai	204	3162	16
Jamui	396	5742	15
Khagaria	1078	17248	16
Bhagalpur	1598	25568	16
Banka	603	9045	15
Saharsa	112	18032	16
Supaul	509	7001	14
Madhepura	1206	18693	16
Pumea	884	14144	16
Kisanganj	805	12880	16
Araria	709	10990	16
Katihar	1374	26984	20
Bihar	46032	727242	16

(Source: www.indiastat.com)

Haryana (2006-07)

Panchkula	650	11200	17
Ambala	1505	11035	7
Yamunanagar	1895	9456	5
Kurukshetra	1570	21100	13
Kaithal	330	5115	16
Karnal	3390	57010	17
Panipat	310	3500	11

Districts	Area (ha)	Production (t)	Yield (t/ha)
Sonipat	1380	22430	16
Rohtak	330	4350	13
Jhajjar	530	6740	13
Faridabad	830	17000	20
Narnaul	335	3125	9
Rewari	305	6000	20
Gurgaon	3598	8077	2
Bhiwani	1000	15750	16
Hissar	450	9500	21
Fatehabad	425	3825	9
Sirsa	220	7035	32
Jind	830	11510	14
Mewat	2650	25000	9
Haryana	22533	258758	11

(Source: www.indiastat.com)

Himachal Pradesh (2005-06)

Bilaspur	765	26775	35
Chamba	123	3090	25
Hamirpur	100	1796	18
Kangra	345	9873	29
Kinnaur	25	625	25
Kullu	695	28850	42
Lahual & Spiti	6	85	14
Mandi	1058	31019	29
Shimla	690	22080	32
Sirmour	1529	49535	32
Solan	3800	125400	33
Una	75	2055	27
Himachal Pradesh	9211	301183	33

(Source: www.indiastat.com)

Odisha (2006-07)

Balasore	2803	37224	13
Bhadrak	3704	49189	13
Bolangir	4559	60544	13
Sonepur	2064	27410	13
Cuttack	3050	40504	13
J.S. Pur	3389	44938	13
Jaipur	737	9787	13

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Kendrapara	4354	57821	13
Dhenkanal	5551	73717	13
Angul	4445	59207	13
Ganjam	5459	72496	13
Gajapati	2356	31217	13
Keonjhar	15050	201519	13
Kalahandi	6859	91293	13
Khariar	2301	30511	13
Koraput	1729	22996	13
Malkangiri	1697	22536	13
N.W. Pur	754	10013	13
Rayagade	2327	30903	13
Phulbani	3026	40185	13
Boudh	2053	26997	13
Mayurbhanj	6446	85603	13
Puri	1262	16759	13
Khurda	7331	97356	13
Nayagarh	2119	28140	13
Sambalpur	1221	16215	13
Deogarh	184	2444	13
Bargarh	295	3944	13
Jharsuguda	272	3604	13
Sundargarh	3193	42403	13
Odisha	100590	1337475	13

(Source: www.indiastat.com)

Punjab (2005-06)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Hoshiarpur	174	4002	23
Jalandhar	823	20830	25
Ludhiana	308	7796	25
Ferozepur	223	5515	25
Amritsar	1538	38396	25
Gurdaspur	312	7103	23
Kapurthala	1820	43462	24
Bathinda	121	2720	22
Sangrur	223	5060	23
Patiala	1166	28666	25
Ropar	146	3410	23
Faridkot	41	982	24
Mansa	22	519	24

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Fatehgarh Sahib	432	9344	22
Moga	14	303	22
Mukatsar	13	312	24
Nzwanshehar	644	15427	24
Punjab	8020	193847	24

(Source: www.indiastat.com)

Tamil Nadu (2005-06)

Coimbatore	4846	50896	10.5
Cuddalore	8	101	12.63
Dharmapuri	2761	70476	25.53
Dindigul	2489	26264	10.55
Erode	542	4612	8.51
Kancheepuram	33	417	12.64
Kanyakumari	8	101	12.63
Karur	110	1389	12.63
Krishnagiri	3728	47073	12.63
Madurai	501	7228	14.43
Nagapattinam	1	13	13.00
Namakkal	285	2839	9.96
Perambalur	101	1275	12.62
Pudukottai	5	63	12.6
Ramanathapuram	9	114	12.67
Salem	1737	14421	8.3
Sivagangai	6	76	12.67
Thanjavur	1	13	13.00
The Nilgiris	1	13	13.00
Theni	2394	20543	8.58
Thiruchirapalli	332	8802	26.51
Thirunelveli	819	10341	12.63
Thiruvallur	6	76	12.67
Thiruvannamalai	155	1044	6.74
Thiruvarur	1	13	13.00
Thoothukudi	302	3041	10.07
Vellore	615	3971	6.46
Villupuram	17	215	12.65
Virudhunagar	182	2298	12.63
Tamil Nadu	21995	277728	12.63

(Source: www.indiastat.com)

Uttar Pradesh (2005-06 to 2010-11)

[Area (A) in ha; Production (P) in t; Yield (Y) in t/ha]

District/division	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Saharanpur	41	1464	36	38	1372	36	41	1572	38
Meerut	723	27882	39	488	17126	35	521	18303	35
Agra	788	34904	44	943	41276	44	1018	35382	35
Aligarh	840	33187	40	957	38262	40	1033	36692	36
Bareilly	75	2965	40	72	2857	40	78	3555	46
Muradabad	60	2256	38	59	2226	38	64	2447	38
Kanpur	806	34260	43	759	32988	43	818	35805	44
Allahabad	199	7056	35	196	8072	41	212	6734	32
Jhansi	328	15117	46	349	15794	45	377	16364	43
Chitrakoot Dham	186	7808	42	197	8249	42	213	9484	45
Varanasi	196	6339	32	223	7290	33	241	7855	33
Mirzapur	98	2918	30	197	5879	30	213	6225	29
Azamgarh	65	1914	29	106	3137	30	114	3462	30
Gorakhpur	125	3659	29	185	5633	30	200	4403	22
Basti	42	1157	28	48	1453	30	52	1569	30
Shri Patan devi	151	4283	28	157	4842	31	169	5350	32
Lucknow	654	24355	37	746	28850	39	807	31159	39
Faziabad	529	22473	42	480	20591	43	519	22272	43
Total U.P.	5906	233997	40	6200	245897	40	6690	248633	37

(Source: State Horticulture Mission, Government of Uttar Pradesh)

West Bengal (2005-06)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Darjeeling	0.8	14.3	17.9
Jalpaiguri	4.7	74.5	15.9
Coochbehar	4.0	160.2	40.1
North Dinajpur	2.0	24.0	12.0
South Dinajpur	2.1	35.7	17.0
Malda	2.4	35.6	14.8
Murshidabad	4.2	55.2	13.1
Nadia	4.8	69.5	14.5
North 24-Parganas	2.9	68.7	23.7
South 24-Parganas	4.2	76.5	18.2
Howrah	0.6	8.7	14.5
Hooghly	0.9	14.9	16.6
Burdwan	2.6	35.9	13.8
Birbhum	1.7	26.3	15.5
Bankura	3.1	50.5	16.3
Purulia	4.8	60.4	12.6
Midnapur (West)	2.1	31.6	15.0
Midnapur (East)	1.3	14.2	10.9
West Bengal	49.9	857.1	17.2

(Source: www.indiastat.com)

Table 4.12: Monthly wholesale price index (WPI) of tomato in India. (Base year: 1981-82; 1993-94; 2004-05=100)

{April 1990 to December 1992 and September 1993 to July 2012}

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
1981-82=100												
1990				N.A.	N.A.	N.A.	N.A.	260.9	193.1	199.5	279.2	278.6
1991	239.6	198.4	189.3	N.A.	N.A.	N.A.	N.A.	576.5	378.0	272.8	243.6	166.0
1992	133.4	134.1	187.1	N.A.	N.A.	N.A.	N.A.	362.5	286.3	359.9	415.9	369.4
1993									316.8	252.5	430.9	311.1
1993-94=100												
1994	177.9	149.1	178.8	N.A.	N.A.	N.A.	N.A.	138.2	115.0	126.2	133.5	93.9
1995	96.4	79.7	76	N.A.	N.A.	N.A.	N.A.	168.0	142.3	153.6	171.2	137.3
1996	84	89.7	71.9	N.A.	N.A.	N.A.	N.A.	193.6	177.3	136.2	164.4	159.0
1997	116.7	125.8	91.6	N.A.	N.A.	N.A.	N.A.	129.7	158.5	235.8	201.0	142.7
1998	174.6	116.1	122.5	N.A.	N.A.	N.A.	N.A.	191.2	184.4	232.5	360.9	278.4
1999	115.9	66	54.8	N.A.	N.A.	N.A.	N.A.	201.8	123.7	140.5	184.5	119.0
2000	77.9	87.4	102.6	N.A.	N.A.	N.A.	N.A.	124.6	131.7	203.7	197.6	146.2
2001	112.2	102	84.1	N.A.	N.A.	N.A.	N.A.	237.9	170.9	141.8	183.5	209.0
2002	143.1	113.1	122.3	N.A.	N.A.	N.A.	N.A.	204.8	164.1	165.2	136.9	79.2
2003	72.2	84.9	79.4	N.A.	N.A.	N.A.	N.A.	153.4	147.4	189.8	180.9	138.3
2004	128.2	105.8	80.9	N.A.	N.A.	N.A.	N.A.	214.1	150.7	170.3	165.5	130.9
2006	153.2	92.3	86.4	N.A.	N.A.	N.A.	N.A.	169.4	163.6	174.9	160.1	186.7
2007	188.9	141.1	126.5	N.A.	N.A.	N.A.	N.A.	249.6	228.9	159.3	160.4	134.3
2008	129.8	137.7	173.3	N.A.	N.A.	N.A.	N.A.	217.5	222.1	233.1	258.0	163.3
2009	186.3	163.7	159.2	N.A.	N.A.	N.A.	N.A.	255.1	216.4	172.3	269.2	231.2
2010	186.5	114.6	97.2	N.A.	N.A.	N.A.	N.A.	251.1				
2004-05=100												
2005				N.A.	N.A.	N.A.	N.A.	131.4	161.1	131.1	161.4	112.0
2006	89.8	86.8	78.8	N.A.	N.A.	N.A.	N.A.	124.3	132.3	132.8	122.9	150.6
2007	140.3	107.2	94.1	N.A.	N.A.	N.A.	N.A.	181.0	144.2	126.7	126.3	90.1
2008	84.6	102.9	134.8	N.A.	N.A.	N.A.	N.A.	135.5	167.8	232.2	253.3	136.6
2009	117.2	92.5	90.8	N.A.	N.A.	N.A.	N.A.	201.1	154.4	149.9	213.9	174.7
2010	150.0	93.6	90.9	N.A.	N.A.	N.A.	N.A.	220.8	239.6	193.0	143.4	218.5
2011	274.6	124.5	108.7	N.A.	N.A.	N.A.	N.A.	172.0	183.0	276.6	276.9	125.9
2012	106.2	134.1	200.4	N.A.	N.A.	N.A.	N.A.					

(Source: www.indiastat.com)

Table 4.13: Monthly average wholesale price (WP) and arrival (AR) of tomato during the period January to December, 2011

(Average wholesale price in ₹/q and Arrival in t)

Market	Jan		Feb		March		April		May		June		July		Aug		Sept		Oct		Nov		Dec		Total		
	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	
Abohar	1529	89	1525	48	1325	130	1582	122	1120	179	1048	255	1712	253	1226	356	1338	270	1961	212	1800	151	1108	364	1440	2429	
Agra	1646	270	1081	257	1420	274	1011	342	794	442	1016	410	1513	476	1095	470	1172	585	2155	364	2066	738	700	60	1307	4708	
Ahmedabad	1574	5966	574	3915	537	6461	594	5518	547	5767	768	5303	1060	5040	682	5431	833	5966	1191	3782	874	4264	418	4536	804	61949	
Amritsar	2295	378	959	693	1002	582	975	602	486	555	318	871	1504	478	1160	543	1129	645	1814	441	1448	494	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	
Baraut																											
Bhopal	1766	1964	796	2843	656	3361	379	3617	489	3615	947	3108	1398	2536	708	3195	956	2960	1415	3036	894	6145	374	4209	898	40579	
Bhubaneswar	1790	855	832	1330	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	1110	965	1167	842	800	1236	694	1284	1292	1412	1229	969	1225	1022	1987	827	1570	903	841	1107	1207	12154	
Chennai	2093	5640	783	6430	562	6420	520	4330	856	5160	803	4472	603	5270	725	9185	1179	9610	1585	4065	2072	3610	1046	5439	1069	69631	
Dehradun	2769	400	863	348	935	461	1164	414	507	611	617	434	1034	777	920	1210	1354	726	1774	354	1373	346	741	639	1171	6770	
Delhi	1827	9074	842	7894	1042	10474	1013	9026	167	1507	547	10369	1148	11355	925	105	1113	9954	1847	9036	978	12347	469	14543	993	116173	
Gangatok	1880	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	1071	641	684	631	695	632	668	415	952	455	1539	392	2867	288	2888	283	2638	373	2915	344	2809	354	1431	2063	1760	6871	
Hyderabad	1385	5990	606	3702																							
Jaipur																											
Jalandhar	2067	1906	1350	1615	1121	1785	1192	1335	1164	1175	649	1806	1621	1409	1490	1408	1243	1613	1778	1407	1767	292					
Jammu	2396	2006	1032	2207	1123	2575	1179	2054	692	1927	756	1464	1510	1308	1067	1283	1392	1633	2136	1530	1463	1651	898	1889	1304	21527	
Kanpur																											
Kamal	1383	462	1691	292	1396	336	1930	221	1993	53																	
Kolkata	2179	2107	1203	2994	1408	1718	852	1312	1132	2238	1358	1560	1606	3682	1475	3788	1716	3884	2622	2324	2249	2892	1304	1249	1592	30748	
Lucknow	1635	1212																									
Mumbai	2433	6950	730	5587	747	5780	850	3951	567	4962	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	920	1950	899	2410	1467	1730	1173	2220	602	2280	1000	21530	
Nasik	2079	1850	651	2525	617	3070	663	2710	582	2915	700	2340	1059	1199	757	1770	740	4890	1014	3190	1326	2430	751	3810	912	32699	
Patna	1135	550	630	595	672	815	536	1435	638	1000	1074	555	1643	295	1683	280	1395	545	2241	625	2346	565	1312	470	1267	7730	
Pimalgaon	2111	2210	632	2825	613	2185	654	2825	596	2320	638	2375	1058	1295	670	2900	618	9330	1028	6720	1334	3802	892	4800	904	43587	
Pune	1953	1102	589	1331	623	1486	831	998	526	1382	720	1507	924	1347	541	1351	677	1005	1128	1152	1024	746	638	1350	848	14757	
Raipur	1255	440	602	443	590	357	421	312	736	240	1067	237	1215	351	968	308	999	372	1324	275	1168	299	693	336	920	3970	
Ranchi	888	879	587	824	963	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	1711	176	2534	173	2217	171	1243	262	1639	2861	
Srinagar	2946	690	1625	1093	1363	1295	1650	950	1204	1735	1104	1605	1803	1328	651	1665	1472	675	1943	770	1760	1040	1135	1445	1538	14311	
Surat	2558	5508	843	5620	662	6018	668	5010	626	5690	850	5685	1262	5735	807	5823	824	6305	1435	4775	1188	5840	513	6975	1021	68784	
Trivendrum	2355	212	1209	302	1037	404	1045	295	1239	346	1275	328	1162	459	1033	470	1409	3561	1666	257	2187	290	1435	559	1421	7483	

(Source: NHB, National Horticulture Database 2011)

Table 4.14: India's trade in fresh tomatoes

(Quantity in t; Value in '000 US\$ and Unit value in US\$/t)

Year	Export			Import			
	Export Quantity	% share in world export	Export Value	Import Quantity	% share in world import	Import Value	Unit Value
1978	12	0.00	5	0	0.00	0	0
1979	19	0.00	4	0	0.00	0	0
1980	0	0.00	0	0	0.00	0	0
1981	0	0.00	0	0	0.00	0	0
1982	1	0.00	1	0	0.00	0	0
1983	7	0.00	2	0	0.00	0	0
1984	25	0.00	7	0	0.00	0	0
1985	0	0.00	0	0	0.00	0	0
1986	0	0.00	0	0	0.00	0	0
1987	144	0.01	13	0	0.00	0	0
1988	342	0.01	128	0	0.00	0	0
1989	80	0.00	31	0	0.00	0	0
1990	117	0.00	40	0	0.00	0	0
1991	88	0.00	54	0	0.00	0	0
1992	331	0.01	69	0	0.00	0	0
1993	187	0.01	20	0	0.00	0	0
1994	1072	0.03	201	0	0.00	0	0
1995	646	0.02	112	0	0.00	0	0
1996	690	0.02	118	0	0.00	0	0
1997	863	0.02	112	0	0.00	0	0
1998	643	0.02	114	0	0.00	0	0
1999	1233	0.03	282	0	0.00	0	0
2000	1134	0.03	234	0	0.00	0	0
2001	1413	0.03	304	0	0.00	0	0
2002	12886	0.30	2437	0	0.00	0	0
2003	11328	0.25	1472	32	0.00	20	625
2004	7427	0.15	1299	5	0.00	7	1400
2005	11743	0.24	2464	51	0.00	25	490
2006	33593	0.59	7530	41	0.00	23	561
2007	134845	2.12	37050	33	0.00	26	788
2008	124617	1.91	29528	62	0.00	55	887
2009	105557	1.52	21340	42	0.00	31	738
2010	67547	0.95	25031	62	0.00	43	694

(Source: www.faostat.fao.org)

Table 4.15: India's trade in tomato juice

(Quantity in t; Value in '000US\$; Unit value in US\$/t)

Year	Export			Import			
	Export Quantity	% share in world export	Export Value	Import Quantity	% share in world import	Import Value	Unit Value
1984	22	0.02	20	66	0.21	68	1030
1985	0	0.00	0	0	0.00	0	0
1986	158	0.24	156	69	0.20	74	1072
1987	0	0.00	0	7	0.02	10	1429
1988	21	0.03	12	0	0.00	0	0
1989	0	0.00	0	0	0.00	0	0
1990	31	0.05	19	0	0.00	0	0
1991	0	0.00	0	0	0.00	0	0
1992	15	0.03	11	0	0.00	0	0
1993	5	0.01	7	0	0.00	0	0
1994	48	0.06	54	0	0.00	0	0
1995	1361	1.20	1229	20	0.04	13	650
1996	5	0.00	12	5	0.01	13	2600
1997	1	0.00	1	0	0.00	0	0
1998	2	0.00	1	122	0.20	72	590
1999	22	0.03	28	181	0.29	129	713
2000	0	0.00	0	338	0.49	280	828
2001	20	0.03	8	218	0.30	217	995
2002	13	0.02	9	264	0.31	279	1057
2003	73	0.13	53	56	0.09	46	821
2004	126	0.22	114	171	0.27	106	620
2005	46	0.08	41	51	0.07	61	1196
2006	8	0.01	11	58	0.07	55	948
2007	2	0.00	2	119	0.14	94	790
2008	60	0.08	73	31	0.04	37	1194
2009	12	0.02	14	47	0.04	30	638
2010	9	0.01	18	35	0.03	68	1943

(Source: www.faostat.fao.org)

Table 4.16: India's trade in tomato paste

(Quantity in t; Value in '000 US\$; Unit value in US\$/t)

Year	Export			Import			
	Export Quantity	% share in world export	Export Value	Import Quantity	% share in world import	Import Value	Unit Value
1988	131	0.01	55	0	0.00	0	0
1989	26	0.00	18	0	0.00	0	0
1990	2	0.00	3	0	0.00	0	0
1991	6	0.00	6	0	0.00	0	0
1992	14	0.00	15	0	0.00	0	0
1993	4	0.00	8	0	0.00	0	0
1994	0	0.00	0	0	0.00	0	0
1995	17	0.00	16	0	0.00	0	0
1996	23	0.00	23	0	0.00	0	0
1997	35	0.00	27	1	0.00	7	7000
1998	2	0.00	3	1885	0.15	1657	879
1999	34	0.00	123	2	0.00	5	2500
2000	25	0.00	46	2	0.00	8	4000
2001	40	0.00	28	8	0.00	13	1625
2002	136	0.01	145	878	0.05	654	745
2003	118	0.01	120	3239	0.18	1933	597
2004	69	0.00	87	2133	0.10	1242	582
2005	140	0.01	165	3918	0.19	2275	581
2006	81	0.00	78	3947	0.18	2616	663
2007	65	0.00	84	7058	0.30	4818	683
2008	139	0.01	179	3227	0.14	3432	1064
2009	154	0.01	361	4094	0.18	3435	839
2010	157	0.01	226	6027	0.24	4822	800

(Source: www.faostat.fao.org)

Table 4.17: India's trade in peeled tomatoes

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1988	37	0.01	15	0.00	0	0.00	0	0.00	0
1989	0	0.00	0	0.00	0	0.00	0	0.00	0
1990	0	0.00	0	0.00	0	0.00	0	0.00	0
1991	0	0.00	0	0.00	0	0.00	0	0.00	0
1992	0	0.00	0	0.00	0	0.00	0	0.00	0
1993	76	0.01	77	0.02	0	0.00	0	0.00	0
1994	0	0.00	0	0.00	0	0.00	0	0.00	0
1995	0	0.00	0	0.00	0	0.00	0	0.00	0
1996	17	0.00	15	0.00	0	0.00	0	0.00	0
1997	108	0.01	63	0.01	0	0.00	0	0.00	0
1998	4	0.00	3	0.00	96	0.01	248	0.04	2583
1999	0	0.00	0	0.00	125	0.01	84	0.01	672
2000	152	0.02	113	0.02	1	0.00	1	0.00	1000
2001	144	0.01	69	0.01	15	0.00	8	0.00	533
2002	272	0.02	169	0.03	5	0.00	5	0.00	1000
2003	51	0.00	49	0.01	16	0.00	14	0.00	875
2004	132	0.01	75	0.01	477	0.05	264	0.04	553
2005	69	0.01	57	0.01	429	0.04	263	0.03	613
2006	135	0.01	87	0.01	418	0.04	271	0.04	648
2007	259	0.02	206	0.02	1141	0.09	797	0.09	699
2008	120	0.01	94	0.01	1015	0.08	893	0.07	880
2009	244	0.02	147	0.01	181	0.02	156	0.01	862
2010	340	0.02	200	0.02	576	0.05	513	0.04	891

(Source: www.faostat.fao.org)

Table 4.18: Major destinations of tomato export from India

(Quantity in tonnes; Value in Lakhs ₹)

Country	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
UAE	11617.3 (9)	1425.2 (12)	10153.4 (10)	1145.6 (11)	33902.9 (50)	7468.6 (65)
Bangladesh	9166.4 (8)	848.6 (7)	17020.5 (16)	1674.8 (16)	19711.9 (29)	2048.2 (18)
Saudi Arabia	250.0 (0)	35.9 (0)	0.0 (0)	0.0 (0)	2261.5 (3)	539.4 (5)
Oman	205.8 (0)	36.8 (0)	283.2 (0)	35.3 (0)	2203.6 (3)	532.0 (5)
Pakistan	100764.7 (82)	10172.0 (80)	74716.1 (71)	7284.2 (71)	3708.9 (5)	340.6 (3)
Nepal	1434.3 (1)	111.4 (1)	2570.2 (2)	121.9 (1)	3266.6 (5)	227.3 (2)
Maldives	483.3 (0)	53.1 (0)	942.3 (1)	55.5 (1)	2447.7 (4)	169.8 (1)
Bahrain	112.5 (0)	15.0 (0)	1.0 (0)	0.2 (0)	442.3 (1)	102.2 (1)
Kuwait	155.8 (0)	23.1 (0)	0.0 (0)	0.0 (0)	125.9 (0)	29.9 (0)
Qatar	45.7 (0)	6.6 (0)	0.0 (0)	0.0 (0)	19.6 (0)	8.0 (0)
Others	381.5 (0)	38.5 (0)	174.9 (0)	7.3 (0)	92.8 (0)	14.6 (0)
Total	124617.2 (100)	12766.2 (100)	105861.6 (100)	10325.0 (100)	68183.7 (100)	11480.6 (100)

(Figures in parentheses indicate percentage to the total tomato exports)

(Source: www.apeda.gov.in)

Table 4.19: Major destinations of tomato seed export from India

(Quantity: Kg; Value: ₹)

Country	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
Netherland	7577	50175606	5823	67596887	10440	44243596
USA	4567	30206126	3047	52829820	4163	36878188
Pakistan	4327	15027588	38740	15871627	37481	25579293
Bangladesh	803	3172843	301	1708890	2327	15201119
Mali	0	0	2	12338	613	4288610
Italy	1394	1644778	3490	17896517	805	4170621
Sri lanka	387	1317886	60	1186485	370	2825988
Nepal	542	1206322	500	40430	141	1335573
Vietnam	196	1390765	308	2154922	162	985495
Thailand	52	550274	544	3030137	152	933858
Others	12987	31738229	5807	46986472	3657	6880483
Total	32832	136430417	58622	209314525	60311	143322824

(Source: www.agriexchange.apeda.gov.in)

Onion

Table 4.20: Area, production and yield of onion (dry)

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	1.2	14.3	11.7	120.0	1200.0	10.0
1962	1.2	14.4	11.7	120.0	1230.0	10.3
1963	1.2	14.6	11.8	120.0	1260.0	10.5
1964	1.2	14.7	11.9	120.0	1290.0	10.8
1965	1.3	15.0	11.9	125.0	1320.0	10.6
1966	1.2	15.4	12.3	125.0	1350.0	10.8
1967	1.3	16.3	12.4	150.0	1629.0	10.9
1968	1.3	16.5	12.6	150.0	1700.0	11.3
1969	1.3	17.2	12.8	160.0	1750.0	10.9
1970	1.3	16.7	12.5	165.0	1800.0	10.9
1971	1.4	17.6	12.8	177.0	1900.0	10.7
1972	1.4	17.2	12.5	177.0	1920.0	10.8
1973	1.4	18.2	12.9	182.0	1980.0	10.9
1974	1.4	19.2	13.2	183.4	2000.0	10.9
1975	1.4	18.7	12.9	194.0	2100.0	10.8
1976	1.5	19.5	13.4	164.1	1950.0	11.9
1977	1.5	21.4	13.9	187.9	2230.0	11.9
1978	1.6	22.3	14.1	213.8	2200.0	10.3
1979	1.6	23.0	14.2	244.3	2499.7	10.2
1980	1.6	22.4	13.9	251.4	2504.3	10.0
1981	1.6	23.4	14.2	250.7	2647.9	10.6
1982	1.7	25.0	15.1	234.9	2426.6	10.3
1983	1.7	24.8	14.6	270.4	2699.1	10.0
1984	1.7	26.1	15.1	278.2	3098.9	11.1
1985	1.8	27.2	15.4	280.6	2862.7	10.2
1986	1.8	28.0	15.8	262.2	2532.6	9.7
1987	1.8	28.9	15.9	274.0	2700.7	9.9
1988	1.9	29.4	15.7	315.2	3347.3	10.6
1989	1.9	29.4	15.7	301.2	3065.1	10.2
1990	1.9	30.6	16.2	301.9	3226.2	10.7
1991	1.9	31.4	16.2	323.3	3584.7	11.1
1992	2.1	33.6	16.3	323.5	3490.0	10.8
1993	2.1	34.6	16.3	367.5	4010.0	10.9
1994	2.2	36.2	16.2	378.6	4040.0	10.7
1995	2.4	39.6	16.6	384.6	4080.0	10.6
1996	2.4	40.5	16.8	404.0	4180.0	10.3

Contd...

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1997	2.4	40.4	16.7	355.0	3200.0	9.0
1998	2.6	45.0	17.1	468.1	5331.9	11.4
1999	2.8	48.2	17.1	493.3	4899.5	9.9
2000	2.8	49.9	17.6	450.0	4721.1	10.5
2001	2.9	51.8	17.7	495.8	5252.1	10.6
2002	2.9	52.6	18.1	424.7	4209.5	9.9
2003	3.1	56.4	18.0	553.8	6267.6	11.3
2004	3.3	62.5	18.9	613.8	7760.6	12.6
2005	3.5	65.6	18.7	703.6	9432.5	13.4
2006	3.7	68.3	18.4	768.0	10847.0	14.1
2007	3.8	73.1	19.2	821.0	13900.0	16.9
2008	3.8	74.4	19.6	834.0	13565.0	16.3
2009	3.7	73.4	19.8	756.2	12158.8	16.1
2010	4.1	78.9	19.1	1064.0	15118.0	14.2
2011	4.3	85.4	19.9	1110.1	15929.6	14.3
ACGR for last ten years (2002-2011)	3.8	4.9	1.1	9.4	14.1	4.3

(Source: www.faostat.fao.org)

Table 4.21: Major onion producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total world onion area	Production (000't)	% share to total onion production in world	Productivity (t/ha)
China	930.2	23.42	20507.8	26.99	22.0
India	1064.0	26.79	15118.0	19.90	14.2
Pakistan	124.7	3.14	1701.1	2.24	13.6
Bangladesh	117.6	2.96	872.1	1.15	7.4
Indonesia	109.5	2.76	1048.2	1.38	9.6
Viet Nam	101.7	2.56	355.3	0.47	3.5
Russia	88.0	2.22	1536.3	2.02	17.5
Myanmar	78.9	1.99	1137.9	1.50	14.4
Brazil	67.3	1.69	1556.0	2.05	23.1
Turkey	62.7	1.58	1900.0	2.50	30.3
Others	1227.0	30.90	30244.5	39.81	24.6
Total	3971.5	100.00	75977.2	100.00	19.1

(Source: NHB, National Horticulture Database 2011)

Table 4.22: Percent share of area and production of onion in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
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

(Source: NHB, National Horticulture Database 2011)

Table 4.23: State-wise area, production and productivity of onion in India (2011-2012)

State	Area ('000 ha)	Production ('000 t)	Yield (t/ha)
Andhra Pradesh	48.52	824.77	17.00
Assam	8.12	23.97	2.95
Bihar	53.81	1,236.74	22.98
Chhattisgarh	13.94	222.21	15.94
Delhi	1.30	22.86	17.58
Gujarat	61.30	1,562.20	25.48
Haryana	27.45	589.83	21.49
Himachal Pradesh	2.20	36.30	16.50
Jammu & Kashmir	2.85	65.27	22.90
Jharkhand	15.70	318.19	20.27
Karnataka	177.20	2,451.20	13.83
Madhya Pradesh	88.07	1,957.00	22.22
Maharashtra	382.00	5,638.00	14.76
Meghalaya	0.45	3.74	8.31
Mizoram	0.48	4.38	9.13
Nagaland	0.40	3.10	7.75
Odisha	35.16	418.99	11.92
Puduchery	0.01	0.05	5.00
Punjab	8.24	182.69	22.17
Rajasthan	73.46	664.22	9.04
Sikkim	0.30	1.64	5.47
Tamil Nadu	37.12	556.45	14.99
Uttar Pradesh	23.69	383.47	16.19
Uttarakhand	3.81	39.27	10.31
West Bengal	21.68	304.56	14.05
India	1,087.26	17,511.10	16.11

(Source: www.nhrdf.com)

Table 4.24: State-wise area, production and yield of onion in India from 2001-02 to 2010-11

(Area: 000'ha; Production: 000't; Yield: t/ha)

States/UTs	2001-02			2002-03			2003-04			2004-05			2005-06		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Bihar	13.3	129.5	9.7	13.6	116.8	8.6	14.5	138	9.5	14.1	106.5	7.6	15.9	128.1	8.1
Chhattisgarh	3.8	33.9	8.9	4.1	34.8	8.5	4.5	32.5	7.2	4.3	25.7	6.0	4.5	24.9	5.5
Delhi	0.2	1.4	7.0	0.2	1.3	6.5	0.1	0.1	1.0	0.1	0.3	3.0	0.1	0.4	4.0
Haryana	14.9	236.9	15.9	15.9	226.1	14.2	19.9	294.7	14.8	19.9	294.7	14.8	15.5	317.7	20.5
Himachal Pradesh	1.1	4.9	4.5	0.8	4.5	5.6	1	7.3	7.3	1	7.3	7.3	0.8	4	5.0
Jharkhand	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Madhya Pradesh	23.1	324.6	14.1	24.7	345	14.0	31	416.2	13.4	34.8	535.6	15.4	37.8	572	15.1
Maharashtra	108.0	1307.0	12.10	121.0	1427.0	11.79	134.0	1645.0	12.28	134.0	1645.0	12.28	177.0	2469.0	13.95
Rajasthan	28.4	206.3	7.3	26.5	155.7	5.9	33.6	249.1	7.4	42.9	347.9	8.1	44.5	427.2	9.6
Uttar Pradesh	25.2	278.5	11.1	20.6	232.8	11.3	21.2	245.8	11.6	17.6	210	11.9	25.5	328.2	12.9
Uttarakhand	1.7	24	14.1	1.9	6.6	3.5	1.8	18.4	10.2	1.8	18.4	10.2	2	25	12.5

Table continues

States/UTs	2006-07			2007-08			2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Bihar	15.1	120.5	8.0	14.6	1019.6	69.8	51.6	946.6	18.3	53	1016.1	19.2	54	1080	20.0
Chhattisgarh	4.3	20.5	4.8	4.2	136.7	32.5	8.8	136.7	15.5	9.2	160.3	17.4	10.1	179.6	17.8
Delhi	0.1	0.8	8.0	0.1	23.4	234.0	0.1	23.5	235.0	1.2	23.5	19.6	1.4	25	17.9
Haryana	16.4	314.9	19.2	17.7	346.6	19.6	18.8	347.9	18.5	18.4	364	19.8	22	468.8	21.3
Himachal Pradesh	0.9	7.6	8.4	0.8	25.9	32.4	1.9	32.1	16.9	1.7	33.9	19.9	0	0	0.0
Jharkhand	0	0	0.0	3	242.1	80.7	15.1	301.8	20.0	12	227	18.9	14.7	305.5	20.8
Madhya Pradesh	37.87	629.65	16.6	38.58	648.6	16.8	53	881.8	16.6	57.3	1081.8	18.9	58.3	1022.1	17.5
Maharashtra	229.84	2812.36	12.24	204.67	2713.28	13.26	250.0	3932.5	15.73	200.0	3146.0	15.73	415.0	4905.0	11.82
Rajasthan	38.6	370.3	9.6	36	391.6	10.9	41	369.1	9.0	45	438.7	9.7	48.5	750	15.5
Uttar Pradesh	21	297	14.1	22	295.8	13.4	22.3	308	13.8	24.3	315.9	13.0	23.6	370.9	15.7
Uttarakhand	3	14	4.7	2	35.2	17.6	3.6	40.5	11.3	3.6	39.7	11.0	4.2	45	10.7

(Sources: DES, MoA, GOI and www.indiastat.com)

Table 4.25: District-wise area, production and yield of Onion

Bihar

[Area(A) in ha; Production (P) in t; Yield (Y) in t/ha]

District/division	2006-07			2007-08			2009-10		
	A	P	Y	A	P	Y	A	P	Y
Patna	2396	41211	17.2	2438	49735	20.4	2473	49955	20.2
Nalanda	5724	104749	18.3	5788	120706	20.9	5851	119360	20.4
Bhojpur	1132	20602	18.2	1151	22905	19.9	1197	23478	19.6
Buxar	846	14889	17.6	864	16934	19.6	915	17751	19.4
Rohtas	1134	20815	18.4	1152	20966	18.2	1171	20844	17.8
Kaimur	829	14425	17.4	847	15077	17.8	873	15714	18.0
Gaya	1397	25984	18.6	1411	25962	18.4	1429	25436	17.8
Jehanabad	449	8172	18.2	472	9251	19.6	531	9770	18.4
Arwal	306	5477	17.9	388	7682	19.8	435	8129	18.7
Nawada	968	16843	17.4	933	16887	18.1	951	17238	18.1
Aurangabad	1056	18902	17.9	1066	18975	17.8	1093	20221	18.5
Saran	899	16002	17.8	912	17510	19.2	943	17634	18.7
Siwan	821	14614	17.8	842	15998	19.0	898	16882	18.8
Gopalganj	813	14715	18.1	838	16257	19.4	884	16619	18.8
E. Champaran	2322	43654	18.8	2328	45629	19.6	2362	46295	19.6
W. Champaran	2191	41410	18.9	2264	46186	20.4	2303	46521	20.2
Muzaffarpur	2466	48334	19.6	2477	50035	20.2	2517	49385	19.6
Sitamarhi	1269	22081	17.4	1282	25384	19.8	1318	25188	19.1
Sheohar	672	11693	17.4	679	13173	19.4	712	13243	18.6
Vaishali	1621	31123	19.2	1672	33945	20.3	1727	33749	19.5
Bhagalpur	1518	30208	19.9	1558	31472	20.2	1623	31486	19.4
Banka	723	14315	19.8	712	13243	18.6	737	13166	17.9
Munger	906	18301	20.2	954	19462	20.4	1008	18749	18.6
Sheikhpura	973	21989	22.6	1011	21029	20.8	1065	21087	19.8
Lakhisarai	267	5393	20.2	287	5490	19.1	326	6064	18.6
Jamui	722	14007	19.4	726	13648	18.8	744	13392	18.0
Khagaria	736	14573	19.8	747	14492	19.4	768	14054	18.3
Darbhanga	1084	21463	19.8	1066	21320	20.0	1097	20295	18.5
Madhubani	1066	21107	19.8	1084	21897	20.2	1116	20981	18.8
Samastipur	1146	23837	20.8	1172	24043	20.5	1241	24324	19.6
Begusarai	1897	40596	21.4	1921	39957	20.8	1973	38474	19.5
Purnea	1729	34926	20.2	1742	34666	19.9	1775	34080	19.2
Araria	1448	28670	19.8	1468	29066	19.8	1494	27788	18.6
Kishanganj	1366	27047	19.8	1389	26808	19.3	1376	25594	18.6
Katihar	3748	74496	19.9	3774	76990	20.4	3811	75358	19.8
Saharsa	577	11370	19.7	592	11958	20.2	639	12424	19.4
Madhepura	919	18656	20.3	937	18365	19.6	973	18292	18.8
Supaul	336	6686	19.9	344	6502	18.9	379	7049	18.6
Total	50472	962705	19.1	51288	1019605	19.9	52728	1016069	19.3

(Source: State Horticulture Mission, Government of Bihar)



Gujarat

[Area(A) in ha; Production (P) in t; Yield (Y) in t/ha]

Districts	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Ahmedabad	106	2312	21.8	110	2530	23.0	150	3452	23.01
Amreli	4420	110500	25.0	3050	82350	27.0	6500	195000	30.00
Banaskantha	260	5330	20.5	270	5940	22.0	285	7125	25.00
Bharuch	350	6370	18.2	360	6966	19.4	432	8389	19.42
Narmada	410	10250	25.0	440	11880	27.0	490	13720	28.00
Bhavnagar	30100	782600	26.0	17100	444600	26.0	29800	655600	22.00
Dang	115	2875	25.0	150	5250	35.0	200	7400	37.00
Jamnagar	2913	50832	17.5	2730	57603	21.1	2840	66740	23.50
Junagadh	3250	82875	25.5	3332	83552	25.1	3610	108300	30.00
Porbandar	980	34400	35.1	1025	36900	36.0	935	37213	39.80
Kutch	125	2500	20.0	137	2914	21.3	230	4892	21.27
Kheda	150	3000	20.0	158	3160	20.0	162	3240	20.00
Anand	900	12150	13.5	950	12825	13.5	1000	13520	13.52
Mehsana	305	5795	19.0	405	7788	19.2	412	8009	19.44
Patan	10	220	22.0	12	276	23.0	10	220	22.00
Panchmahal	750	13500	18.0	790	14220	18.0	850	15300	18.00
Dahod	810	12150	15.0	845	12675	15.0	900	14400	16.00
Rajkot	9670	232080	24.0	8508	221208	26.0	9503	270836	28.50
Sabarkantha	500	10000	20.0	512	10266	20.1	529	10633	20.10
Surat	38	1132	29.8	40	1200	30.0	216	4385	20.30
Surendranagar	490	11155	22.8	1465	34685	23.7	1685	37070	22.00
Baroda	925	16650	18.0	930	17670	19.0	1023	21483	21.00
Valsad	33	528	16.0	34	578	17.0	38	654	17.21
Tapi	12	366	30.5	50	1550	31.0	210	6510	31.00
Total	57622	1409570	24.5	43403	1078586	24.9	62010	1514091	24.42

(Source: State Horticulture Mission, Government of Gujarat)

Haryana (2006-07)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Panchkula	900	18200	20.2
Ambala	1507	10960	7.3
Yamunanagar	1110	3525	3.2
Kurukshetra	480	2250	4.7
Kaithal	638	8041	12.6
Karnal	875	19165	21.9
Panipat	1548	18480	11.9
Sonapat	1090	15675	14.4

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Rohtak	170	9800	57.6
Jhajjar	1732	38490	22.2
Faridabad	270	2980	11.0
Narnual	40	200	5.0
Rewari	360	6400	17.8
Gurgaon	50	3944	78.9
Bhiwani	1010	13270	13.1
Hissar	500	7100	14.2
Fatehabad	210	5240	25.0
Sirsa	500	6950	13.9
Jind	650	12400	19.1
Mewat	2790	44150	15.8
Total	16430	247220	15.0

(Source: www.indiastat.com)

Karnataka (2007-08)

Bidar	600	10700	17.8
Bijapur	9983	-	-
Dharwad	27000	50750	21.62
Gulbarga	1600	23720	14.96
Gadag	25159	289964	10.46
Raichur	2278	-	-
Chitradurga	17000	340030	20.11
Davangere	3900	77020	19.7
Chamarajanagara	4300	43900	10.20
Ramanagara	160	-	-
Uttar Kannada	3000	45000	15
Total	94980	881084	16.2

(Source: www.indiastat.com)

Odisha (2006-07)

Balasore	1000	8500	8.5
Bhadrak	295	2683	9.1
Bolangir	4120	37050	9.0
Sonepur	732	6954	9.5
Cuttack	900	7245	8.1
J.S. Pur	705	5640	8.0
Jaipur	870	7913	9.1
Kendrapara	735	6685	9.1
Dhenkanal	746	6785	9.1

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Angul	2690	26900	10.0
Ganjam	885	7522	8.5
Gajapati	275	2365	8.6
Keonjhar	1026	9183	9.0
Kalahandi	2000	18190	9.1
Khariar	455	4138	9.1
Koraput	1100	10004	9.1
Malkangiri	130	1182	9.1
N.W. Pur	500	4548	9.1
Rayagade	658	5985	9.1
Phulbani	644	5857	9.1
Boudh	310	2883	9.3
Mayurbhanj	900	8100	9.0
Puri	202	1768	8.8
Khurda	305	2774	9.1
Nayagarh	387	3425	8.9
Sambalpur	1737	16675	9.6
Deogarh	525	4775	9.1
Bargarh	2061	19579	9.5
Jharsuguda	365	3320	9.1
Sundargarh	1250	11369	9.1
Total	28508	259997	9.1

(Source: www.indiastat.com)

Tamil Nadu (2005-06)

(Area in ha; Production in t; yield in t/ha)

Coimbatore	2366	27499	11.62
Cuddalore	67	537	8.01
Dharmapuri	155	1242	8.01
Dindigul	3365	33720	10.02
Erode	1879	19302	10.27
Karur	130	1042	8.02
Krishnagiri	75	601	8.01
Madurai	1045	6375	6.1
Nagapattinam	8	64	8
Namakkal	2709	31875	11.77
Perambalur	7821	47540	6.08
Ramanathapuram	90	721	8.01
Salem	469	3759	8.01
Sivagangai	26	208	8

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Thanjavur	8	64	8
Theni	478	3831	8.01
Thiruchirapalli	4134	25379	6.14
Thirunelveli	1653	14188	8.58
Thiruvannamalai	27	216	8
Thoothukudi	1170	7974	6.82
Vellore	36	289	8.03
Villupuram	305	2445	8.02
Virudhunagar	1153	4925	4.27
Total	29169	233796	8.02

(Source: www.indiastat.com)

Uttar Pradesh

[Area(A) in ha; Production (P) in t; Yield (Y) in t/ha]

District/division	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Saharanpur	143	2019	14	166	2575	16	232	3382	15
Meerut	682	9007	13	691	10910	16	813	11164	14
Agra	1021	12797	13	1183	18018	15	1056	14052	13
Aligarh	401	5396	13	464	7187	15	557	7334	13
Bareilly	727	10015	14	763	11800	15	962	13484	14
Muradabad	222	3187	14	198	2981	15	334	4703	14
Kanpur	3147	39945	13	3311	50425	15	3098	39158	13
Allahabad	2083	23203	11	1995	32265	16	2862	35653	12
Jhansi	414	5470	13	739	11407	15	478	5821	12
Chitrakoot Dham	509	5970	12	694	11605	17	378	4527	12
Varanasi	2079	23688	11	2117	38919	18	1934	22637	12
Mirzapur	840	10763	13	948	15681	17	837	10412	12
Azamgarh	1653	22031	13	1643	22668	14	1660	19456	12
Gorakhpur	759	11356	15	644	9478	15	674	10050	15
Basti	674	9550	14	695	10611	15	774	10935	14
Shri Patan devi	1602	24653	15	1670	25858	15	1601	24799	15
Lucknow	1940	24027	12	1970	25514	13	2249	28081	12
Faziabad	1848	43572	24	1868	28229	15	1831	42616	23
Total	20744	286649	14	21759	336131	15	22330	308264	14

(Source: State Horticulture Mission, Government of Uttar Pradesh)

Table 4.26: India's trade in onion

(Quantity in t; Value in '000 US\$; Unit value in US\$/t)

Year	Export			Import		
	Export Quantity	% share in world export	Export Value	Import Quantity	% share in world import	Import Value
1961	106885	12.67	5895	-	0.00	-
1962	117008	12.73	5571	-	0.00	-
1963	99733	10.64	5831	-	0.00	-
1964	104815	9.73	6875	-	0.00	-
1965	98896	9.89	5290	-	0.00	-
1966	87362	9.30	5577	-	0.00	-
1967	106760	10.77	6331	29	0.00	2
1968	94688	9.54	5254	5	0.00	-
1969	126272	11.26	7541	2	0.00	-
1970	147476	12.67	9319	1	0.00	-
1971	87566	7.73	3555	-	0.00	-
1972	39214	3.68	2837	-	0.00	-
1973	57230	4.96	4678	-	0.00	-
1974	69549	6.33	6497	1	0.00	-
1975	107400	9.40	11910	-	0.00	-
1976	162330	12.61	23001	-	0.00	-
1977	86889	6.55	14005	12	0.00	1
1978	53527	3.79	10228	-	0.00	-
1979	107779	7.50	17659	-	0.00	-
1980	132137	8.69	26621	5	0.00	1
1981	191072	10.32	32361	-	0.00	-
1982	198128	11.55	38002	34	0.00	8
1983	152103	9.00	39421	22	0.00	9
1984	252196	13.19	44400	-	0.00	-
1985	244129	12.96	35960	-	0.00	-
1986	237006	12.27	41213	25	0.00	3

Contd...

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1987	130392	6.45	31271	6.87	187	0.01	36	0.01	192.51
1988	214336	10.05	44324	8.75	-	0.00	-	-	-
1989	317315	15.35	47441	10.60	0	0.00	-	-	-
1990	240301	10.82	50910	8.41	-	0.00	-	-	-
1991	371353	14.01	61399	8.59	-	0.00	-	-	-
1992	272180	10.94	45443	6.77	-	0.00	-	-	-
1993	357132	13.98	58458	8.32	-	0.00	-	-	-
1994	401996	11.74	65619	6.47	-	0.00	-	-	-
1995	351155	10.68	71565	6.31	0	0.00	-	-	-
1996	428004	12.42	74416	8.24	0	0.00	-	-	-
1997	333549	10.50	54690	6.15	1712	0.05	339	0.03	198.01
1998	215766	6.04	42269	3.95	3799	0.11	1451	0.12	381.94
1999	260719	7.27	47141	5.37	-	0.00	-	-	-
2000	343264	10.10	61512	7.87	-	0.00	-	-	-
2001	441862	12.26	74028	8.51	-	0.00	-	-	-
2002	588863	13.83	74427	7.70	0	0.00	-	-	-
2003	860334	17.03	153829	11.92	0	0.00	-	-	-
2004	833230	16.42	137095	10.07	0	0.00	-	-	-
2005	961806	18.51	160851	11.33	6570	0.14	1865	0.13	283.87
2006	1381515	23.58	257349	15.35	0	0.00	-	-	-
2007	1009323	17.66	251197	12.07	104	0.00	58	0.00	557.69
2008	1670722	26.61	422832	19.17	89	0.00	15	0.00	168.54
2009	1677166	26.58	479650	21.29	630	0.01	280	0.01	444.44
2010	1364337	19.11	465312	15.62	5408	0.08	2598	0.09	480.40

(Source: www.faostat.fao.org)

Brinjal

Table 4.27: Area, production and yield of brinjal (Egg plant or Aubergine)

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	0.79	7.03	8.9	150	990	7
1962	0.66	6.20	9.4	156	1050	7
1963	0.62	6.06	9.8	162	1100	7
1964	0.60	5.90	9.8	170	1150	7
1965	0.61	6.16	10.1	175	1200	7
1966	0.60	6.26	10.4	180	1230	7
1967	0.62	6.55	10.6	190	1300	7
1968	0.61	6.71	11.0	195	1365	7
1969	0.63	6.93	11.1	200	1400	7
1970	0.55	6.22	11.3	205	1480	7
1971	0.59	6.76	11.5	208	1540	7
1972	0.60	6.57	11.0	210	1585	8
1973	0.62	7.19	11.6	215	1635	8
1974	0.61	7.25	11.8	220	1660	8
1975	0.63	7.45	11.7	225	1700	8
1976	0.63	7.19	11.3	230	1760	8
1977	0.65	7.47	11.5	232	1810	8
1978	0.68	7.79	11.4	240	1880	8
1979	0.68	7.98	11.7	245	1940	8
1980	0.71	8.07	11.4	249	2000	8
1981	0.73	8.78	12.0	253	2180	9
1982	0.78	9.11	11.7	258	2300	9
1983	0.78	9.36	12.0	262	2360	9
1984	0.81	9.60	11.9	270	2480	9
1985	0.83	9.91	12.0	275	2550	9
1986	0.83	10.23	12.3	280	2660	10
1987	0.84	10.35	12.3	283	2775	10
1988	0.84	10.58	12.6	287	2870	10
1989	0.88	10.82	12.2	290	2960	10
1990	0.84	11.35	13.6	295	3000	10
1991	0.85	11.88	14.1	300	3124	10
1992	0.72	11.59	16.1	194	2753	14
1993	0.85	15.14	17.8	252	5011	20
1994	0.95	15.78	16.6	280	4420	16
1995	1.12	18.25	16.4	420	6230	15
1996	1.20	19.72	16.5	422	6000	14
1997	1.27	20.65	16.3	430	6100	14
1998	1.35	23.12	17.1	480	7740	16
1999	1.43	26.64	18.7	490	7880	16
2000	1.53	27.40	17.9	500	8120	16
2001	1.56	27.20	17.5	470	7700	16
2002	1.64	29.53	18.0	500	8350	17
2003	1.68	29.71	17.7	500	7830	16
2004	1.75	31.01	17.7	516	8477	16
2005	1.83	32.08	17.6	527	8601	16
2006	1.88	33.04	17.5	560	9364	17
2007	1.66	37.62	22.7	568	9453	17
2008	1.60	39.81	24.8	561	9678	17

Contd...

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
2009	1.68	43.13	25.7	600	10378	17
2010	1.72	44.23	25.7	612	10563	17
2011	1.81	46.69	25.7	680	11896	17
ACGR for last ten years (2002-2011)	0.21	5.82	5.60	3.17	4.12	0.92

(Source: www.faostat.fao.org.in)

Table 4.28: Major eggplant producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total world area under brinjal	Production (000't)	% share to total world brinjal production	Productivity (t/ha)
China	731.5	42.3	24501.9	56.8	33.5
India	680.0	39.3	11896.0	27.6	17.5
Egypt	25.0	1.4	1229.8	2.8	49.2
Iran	29.3	1.7	888.5	2.1	30.3
Turkey	28.0	1.6	847.0	2.0	30.2
Indonesia	52.0	3.0	482.3	1.1	9.3
Iraq	16.8	1.0	387.4	0.9	23.0
Japan	10.3	0.6	330.1	0.8	32.0
Italy	10.7	0.6	302.6	0.7	28.2
Philippines	21.4	1.2	208.3	0.5	9.7
Others	123.1	7.1	2100.1	4.9	17.1
Total	1728.3	100.0	43174.0	100.0	25.0

(Source: NHB, National Horticulture Database 2011)

Table 4.29: Percent share of area and production of brinjal in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
1987-88	202.6	4.9	2555.3	5.2	12.6
1993-94	300.7	6.2	4612.2	7	15.3
1994-95	420.1	8.4	6232.2	9.3	14.8
1995-96	434.2	8.1	6443.1	9	14.8
1996-97	464	8.4	6585.6	8.7	14.2
1997-98	486.8	8.7	7735.4	10.6	15.9
1998-99	496.2	8.4	7881.5	9	15.9
1999-00	500.3	8.4	8117.2	8.9	16.2
2000-01	472.7	7.6	7651.6	8.2	16.2
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	7.5	9453	8.2	16.6
2007-08	561	7.1	9678	7.5	17.3
2008-09	600	7.5	10378	8	17.3
2009-10	612	7.7	10563	7.9	17.3
2010-11	680	8	11896	8.1	17.5

(Source: www.indiastat.com)

Table 4.30: State-wise area, production and yield of brinjal in India from 2001-02 to 2010-11

[Area (P): 000'ha, Production (P): 000't; Yield (Y): t/ha]

States/UTs	2001-02			2002-03			2003-04			2004-05			2005-06		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
West Bengal	141.2	2449.6	17.3	149.7	2484.6	16.6	145.7	2661.6	18.3	148.3	2701.7	18.2	152.9	2757.4	18
Odisha	112.3	1420.1	12.6	127.4	1834.5	14.4	127.6	1850	14.5	127.7	1852.2	14.5	127.9	1853.9	14.5
Andhra Pradesh	20.5	410	20	19.8	396.7	20	19.3	386.9	20	24.7	493.2	20	29.3	549.4	21
Gujarat	40.9	555	13.6	36.5	531.3	14.6	36.5	531.3	14.6	49.2	745.6	15.2	62.7	982.6	15.7
Bihar	55.6	1111.7	20	55.9	1005.4	18	54.1	1081.9	20	53.7	1073	20	53.7	1031	19.2
Maharashtra	31.1	496.9	16	31.2	499.4	16	30.9	498.3	16.1	31.5	473.7	15	32	521.6	15
Chhattisgarh	17.1	382.8	22.4	12.9	15	15	13.6	203.6	15	11.2	125.1	11.2	19.4	266.4	13.7
Karnataka	13.1	195.9	15	16.4	383.8	23.4	14.1	328.2	23.3	14.3	313.5	21.9	14.7	326	22.1
Madhya Pradesh	-	-	-	-	-	-	14.2	213.2	15	15.9	238.7	15	14.6	221.9	15
Haryana	-	-	-	-	-	-	-	-	-	10.7	174.6	-	-	148.7	-
Jharkhand	-	-	-	-	-	-	-	-	-	-	-	-	16.9	-	-
Assam	12.7	616.7	-	12.798	167.6	-	12.8	170.2	-	13	171.5	-	13	171.5	-
Others	58	708.9	-	44.7	503.8	-	44.7	552.1	-	26.2	237.8	-	34.6	305.8	-
Total India	502.5	8347.6	136.9	507.298	7822.1	138	513.5	8477.3	156.8	526.4	8600.6	151	571.7	9136.2	154.2

Table continues

States/UTs	2006-07			2007-08			2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
West Bengal	152.5	2698.6	17.7	153.9	2734.9	17.8	155.3	2758.6	17.8	156.8	2797.3	17.8	158.4	2870.6	18.1
Odisha	129	1913.8	14.8	129	1932.5	15	130	1965.2	15.1	132.4	2135.2	16.1	133.2	2204.8	16.6
Andhra Pradesh	28.5	428.2	15	26.6	531.3	20	26.6	531.3	20	24.3	485	20	75.1	1502.4	20
Gujarat	57.8	933.8	16.2	55.8	987.7	17.7	62.6	1046.3	16.7	65.8	1143.6	17.4	72	1236.3	17.2
Bihar	54.1	1120.6	20.7	54.6	1158.2	21.2	55.1	1186.1	21.5	55.3	1198.6	21.7	55.7	1215.6	21.8
Maharashtra	28	456.4	16.3	29.4	479.2	16.3	28.9	471.1	16.3	30	485	16.5	35	490	14
Chhattisgarh	23.9	326.9	13.7	22.3	327.5	14.7	24.2	355.5	14.7	25.2	374.5	14.9	26.7	439.5	16.5
Karnataka	19.2	335.8	24.3	14.9	362	24.3	15.3	372.9	24.3	15.7	372.7	23.7	14.2	354.5	25
Madhya Pradesh	14.5	217	15	14.9	223.3	15	21.4	321.3	15	20.5	246	12	23.4	281	12
Haryana	-	184.1	-	-	-	-	13.3	-	-	13.9	-	-	14.6	255.2	17.4
Jharkhand	17	-	20	19	-	20	22.7	-	20	22.7	-	17.5	-	-	-
Assam	-	0	-	-	-	-	15.5	275.9	17.8	15.9	253	16	-	-	-
Others	43.8	82	-	41	561.3	13.7	72.2	639.7	15	82.9	663.7	13.9	71.7	1046	14.6
Total India	568.3	8697.2	173.7	561.4	9297.9	195.7	643.1	9923.9	214.2	661.4	10154.6	207.5	680	11895.9	193.2

(Source: www.indiastat.com)

Table 4.31: District-wise area, production and yield of brinjal

Andhra Pradesh (2006-07)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Srikakulam	298	4470	15
Vizianagaram	1161	17415	15
Visakhapatnam	4300	64500	15
East Godavari	3287	49305	15
West Godavari	1152	17280	15
Krishna	848	12720	15
Guntur	1790	26850	15
Prakasam	720	10800	15
Nellore	245	3675	15
Coastal Andhra	13801	207015	15
Chittoor	1890	28350	15
Cuddapah	332	4980	15
Anantapur	950	14250	15
Kurnool	4325	64875	15
Rayalaseema	7497	112455	15
Andhra region	21298	319470	15
Mahbubnagar	500	7500	15
Ranga Reddy	1313	19695	15
Medak	1000	15000	15
Nizamabad	415	6225	15
Adilabad	2086	31290	15
Karimnagar	1000	15000	15
Warangal	178	2670	15
Khammam	600	9000	15
Nalgonda	158	2370	15
Telangana region	7250	108750	15
Total	28548	428220	15

(Source: www.indiastat.com)

Bihar (2005-06)

Patna	1798	35061	20
Nalanda	6429	128580	20
Bhojpur	1012	19228	19
Buxar	627	11913	19
Rohtas	946	17896	19
Kaumur	662	12181	18
Gaya	1604	30156	19
Jehanabad	589	11132	19
Arwal	353	6636	19

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Nawadah	1178	21204	18
Aurangabad	1082	19476	18
Saran	1753	32956	19
Siwan	1529	28439	19
Gopatganj	1348	25073	19
Mujaffarpur	2767	53680	19
E.Champaran	1664	31616	19
W.Champaran	1893	35967	19
SitamatTii	1189	22353	19
Sheohar	616	11458	19
Vaishali	2972	58846	20
Darbhanga	2384	46488	20
Madhubani	1932	34776	18
Samastipur	2137	43809	21
Begusarai	2641	49666	19
Munger	664	13280	20
Sheikhpura	272	5168	19
Lakhisarai	158	2923	19
Jamui	541	9738	18
Khagaria	1378	26182	19
Bhagalpur	1553	29507	19
Banka	786	14148	18
Saharsa	1278	25049	20
Supaul	581	11457	20
Madhepura	1521	29812	20
Pumea	1058	20314	19
Kisanganj	527	10013	19
Araria	598	11362	19
Katihar	1704	33739	20
Total	53724	1031282	19

(Source: www.indiastat.com)

Haryana (2006-07)

Panchkula	100	1400	14
Ambala	1485	24760	17
Yamunanagar	757	5765	8
Kurukshetra	790	6700	8
Kaithal	222	1379	6
Karnal	646	8060	12
Panipat	1285	7860	6
Sonipat	945	17840	19

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Rohtak	490	5700	12
Jhajjar	410	4700	11
Faridabad	495	6100	12
Narnual	390	5595	14
Rewari	207	4342	21
Gurgaon	4263	29814	7
Bhiwani	260	2550	10
Hissar	1380	9150	7
Fatehabad	550	3375	6
Sirsa	485	3360	7
Jind	650	6530	10
Mewat	945	28298	30
Total	16755	183278	11

(Source: www.indiastat.com)

Himachal Pradesh (2005-06)

Bilaspur	40	920	23
Chamba	37	670	18
Hamirpur	70	910	13
Kangra	283	5769	20
Kinnaur	5	75	15
Kullu	40	900	23
Lahaul&Spiti	-	-	-
Mandi	90	1800	20
Shimla	20	360	18
Sirmour	41	720	18
Solan	94	1128	12
Una	52	1015	20
Total	772	14267	18

(Source: www.indiastat.com)

Odisha (2006-07)

Balasore	5527	80142	15
Bhadrak	7899	114536	15
Bolangir	4400	63800	15
Sonepur	2288	33176	15
Cuttack	5920	88800	15
J.S. Pur	3583	51954	15
Jaipur	4287	62162	15
Kendrapara	6108	88566	15
Dhenkanal	4777	71655	15
Angul	4322	64830	15

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Ganjam	5868	85086	15
Gajapati	3170	45965	15
Keonjhar	11675	186800	16
Kalahandi	7695	111578	15
Khariar	1660	24070	15
Koraput	4029	58421	15
Malkangiri	3685	53433	15
N.W. Pur	3575	51838	15
Rayagade	4003	58044	15
Phulbani	4275	61988	15
Boudh	4030	58435	15
Mayurbhanj	7795	124720	16
Puri	2300	33350	15
Khurda	3700	58460	16
Nayagarh	3265	47343	15
Sambalpur	1840	26680	15
Deogarh	1250	18125	15
Bargarh	1390	22240	16
Jharsuguda	1542	22359	15
Sundargarh	3122	45269	15
Total	128980	1913820	15

(Source: www.indiastat.com)

Punjab (2005-06)

Hoshiarpur	96	1394	15
Jalandhar	363	5705	16
Ludhiana	157	1764	11
Ferozepur	111	1735	16
Amritsar	437	6404	15
Gurdaspur	105	1543	15
Kapurthala	664	8665	13
Bathinda	29	430	15
Sangrur	94	1323	14
Patiala	245	3853	16
Ropar	38	562	15
Faridkot	46	495	11
Mansa	15	236	16
Fatehgarh Sahib	71	851	12
Moga	24	379	16
Mukatsar	6	88	15
Nzwanshehar	174	2536	15
Total	2675	37963	14

(Source: www.indiastat.com)

Tamil Nadu (2005-06)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Coimbatore	722	8502	11.78
Cuddalore	372	3418	9.19
Dharmapuri	153	1636	10.69
Dindigul	651	6959	10.69
Erode	272	2908	10.69
Kancheepuram	428	6994	16.34
Kanyakumari	42	449	10.69
Karur	73	780	10.68
Krishnagiri	323	4393	13.6
Madurai	215	3228	15.01
Nagapattinam	20	214	10.7
Namakkal	227	2281	10.05
Perambalur	135	1443	10.69
Pudukottai	83	887	10.69
Ramanathapuram	11	118	10.73
Salem	637	5530	8.68
Sivagangai	58	620	10.69
Thanjavur	236	2523	10.69
The Nilgiris	2	21	10.5
Theni	372	3324	8.94
Thiruchirapalli	142	1518	10.69
Thirunelveli	324	3997	12.34
Thiruvallur	261	2790	10.69
Thiruvannamalai	156	1685	10.8
Thiruvarur	18	192	10.67
Thoothukudi	163	1742	10.69
Vellore	556	3951	7.11
Villupuram	278	1976	7.11
Virudhunagar	177	1892	10.69
Total	7107	75971	10.69

(Source: www.indiastat.com)

Uttar Pradesh

[Area (A) in ha; Production (P) in t; Yield(Y) in t/ha]

Districts/divisions	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Saharanpur	25	31	1	36	1104	31	40	1227	31
Meerut	304	9294	31	319	9781	31	352	10798	31
Agra	463	14205	31	474	14572	31	522	16079	31

Contd...

District/division	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Aligarh	173	5280	31	199	6077	31	219	6737	31
Bareilly	134	4095	31	128	3933	31	141	4335	31
Muradabad	27	827	31	32	1009	32	35	1075	31
Kanpur	270	8265	31	247	7567	31	272	8342	31
Allahabad	98	3004	31	94	2883	31	103	3159	31
Jhansi	37	1134	31	36	1109	31	40	1233	31
Chitrakoot Dham	153	4681	31	184	5641	31	203	6243	31
Varanasi	98	2995	31	108	3312	31	119	3652	31
Mirzapur	38	1163	31	37	1134	31	41	1260	31
Azamgarh	102	3114	31	73	2237	31	80	2455	31
Gorakhpur	188	5758	31	177	5430	31	196	6018	31
Basti	23	707	31	24	738	31	26	800	31
Shri Patan devi	88	2687	31	112	3424	31	123	3765	31
Lucknow	305	9325	31	303	9291	31	334	10244	31
Faziabad	167	5118	31	138	4245	31	152	4677	31
Total U.P.	2693	81683	30	2721	83487	31	2998	92099	31

(Source: State Horticulture Mission, Government of Uttar Pradesh)

West Bengal (2005-06)

Districts	Rainy		Summer		Winter	
	Area (000'ha)	Production (000't)	Area (000'ha)	Production (000't)	Area (000'ha)	Production (000't)
Darjeeling	0.173	6.759	0.169	9.41	0.762	26.134
Jalpaiguri	2.01	29.413	3.506	73.1	4.412	112.66
Coochbehar	1.132	31.661	1.274	28.19	5.341	149.729
North Diriajpur	2.165	21.185	2.092	34.73	4.532	76.065
South Dinajpur	1.1	19.873	1.259	19.69	4.57	83.124
Malda	1.603	28.674	1.432	24.3	7.924	139.924
Murshidabad	2.3	39.607	2.05	36.7	11.05	175.06
Nadia	2.173	37.133	2.134	36.94	6.59	122.19
North 24-Parganas	3.039	50.6	3.293	48.21	2.17	28.711
South 24-Parganas	1.2	21.6	1.3	21.6	5.62	101.16
Howrah	0.694	7.694	0.385	8.75	0.75	12.97
Hooghly	1.548	27.1	1.189	20.42	4.938	76.648
Burdwan	1.38	23.46	2.12	29.68	4.65	88.35
Birbhum	1.33	21.619	1.81	27.33	7.13	145.93
Bankura	1.49	27.593	1.47	27.24	6.9	136.493
Purulia	1.165	24.119	1.167	25.16	5.517	112.873
Midnapur (West)	1.309	25.61	1.466	31.89	6.797	117.97
Midnapur (East)	1.82	28.11	2	21.3	5.5	55
Total	27.631	471.81	30.116	524.64	95.153	1760.991

(Source: www.indiastat.com)

Table 4.32: Monthly wholesale price index (WPI) of brinjal in India (Base year: 1993-94; 2004-05=100) (April 1994 to July 2012)}

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
1993-94=100												
1994				94.3	78.3	163.5	193.2	201.6	237.2	145.7	121.3	163.4
1995	157.3	148.2	139.3	132.2	105.7	154.3	150.0	162.8	215.4	186.1	174.0	107.0
1996	94.1	100.6	122.0	138.2	125.3	143.4	136.7	192.8	191.6	158.8	135.0	145.3
1997	140.7	176.2	184.7	170.6	118.6	162.2	193.9	218.4	244.8	206.5	154.6	215.7
1998	266.3	212.8	213.9	172.6	196.7	253.5	204.0	256.5	298.5	296.3	223.5	177.7
1999	139.6	141.0	210.4	243.9	202.3	211.8	211.8	211.8	204.9	230.0	230.0	240.4
2000	243.9	243.9	243.9	215.8	160.2	193.3	196.8	308.9	276.5	185.1	171.3	157.0
2001	126.2	152.3	170.7	144.3	154.6	226.3	267.4	247.9	191.1	188.1	180.2	140.7
2002	147.1	162.2	156.5	171.4	137.5	202.1	245.1	283.8	236.6	165.3	161.5	132.3
2003	155.7	171.0	179.3	173.8	176.5	213.1	260.3	265.9	290.2	278.3	194.3	156.8
2004	199.5	165.9	164.6	195.8	186.8	217.5	215.0	261.8	245.6	280.7	273.0	155.2
2005	193.3	178.2	171.0	209.7	201.2	221.4	365.6	333.6	277.3	380.6	233.1	193.7
2006	187.4	180.9	241.8	192.6	201.7	297.1	271.8	305.9	316.0	320.2	252.9	244.5
2007	283.2	237.3	273.3	236.9	262.9	265.4	342.9	280.1	278.5	270.2	198.0	234.8
2008	236.7	322.5	374.6	309.6	308.0	356.9	383.4	350.0	320.7	423.9	348.9	259.6
2009	279.3	249.6	235.4	282.8	255.2	284.6	328.2	318.7	294.3	325.9	340.4	298.4
2010	311.3	289.3	337.9	286.3	327.8	406.8	355.4	337.6				
2004-05=100												
2005				102.6	98.2	105.4	147.2	131.3	115.7	161.7	132.4	86.0
2006	95.0	98.2	98.0	87.8	98.2	122.6	117.8	129.4	127.5	128.0	122.4	117.5
2007	119.4	107.8	118.8	107.5	127.0	132.1	160.3	136.3	136.7	129.4	108.5	116.4
2008	117.1	138.7	156.4	135.2	141.8	149.0	154.6	156.3	143.4	176.8	155.5	137.8
2009	148.0	113.3	101.3	112.9	109.1	126.6	152.4	153.6	136.0	149.2	157.5	143.9
2010	141.5	134.4	152.4	144.6	157.4	188.4	159.5	152.4	171.2	147.8	141.3	233.5
2011	209.7	127.9	142.2	122.3	130.4	155.9	184.7	190.3	211.1	181.6	166.7	143.8
2012	168.8	191.5	204.6	206.7	182.3	227.6	186.9					

(Source: www.indiastat.com)

Table 4.33: Monthly average wholesale price (WP) and arrival (AR) of brinjal (round) during the period January to December, 2011
 [Average wholesale price (WP) in ₹/q & Arrival (AR) in Tonnes]

Market	Jan		Feb		March		April		May		June		July		Aug		Sept		Oct		Nov		Dec		Total		
	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	
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	606	1341	565	1212	731	973	890	1197	8058	
Amritsar	855	292	735	329	833	353	689	351	457	193	660	320	944	312	696	348	823	351	712	309	559	281	527	367	708	3806	
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	685	411	568	604	312	902	177	1158	175	928	186	1325	321	703	494	462	1221	367	777	810	5530	
Bhubaneshwar	1830	221	987	380	1377	295	1200	360	975	430	1462	183	2000	98	1710	143	1814	152	1892	125	1879	314	1277	393	1534	3094	
Chandigarh	976	450	1153	381	948	475	862	594	1103	609	1040	710	1019	917	949	690	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	2950	892	2763	1207	2734	754	2571	583	1868	688	1744	947	18508	
Guwahati	1015	248	773	239	735	288	849	175	804	235	938	202	1590	228	1738	175	1665	183	1867	220	1185	301	740	376	1158	2870	
Hyderabad	1077	1141	490	805	376	1315	284	859	400	747	431	976	827	1661	846	961	650	340	-	-	-	-	300	29	568	8834	
Jaipur	609	487	624	444	545	477	478	490	487	535	583	456	724	384	929	427	769	1021	637	416	458	489	466	485	609	6111	
Jalandhar	-	-	-	-	-	-	632	132	613	439	735	500	957	381	686	313	1338	305	1359	433	873	143	-	-	-	899	2646
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	208	460	266	667	108	606	1162	766	324	692	220	798	418	715	176	-	-	-	-	712	3631	
Kamal	1293	274	987	186	1385	131	807	198	968	195	895	281	1068	219	967	238	1321	215	884	308	848	291	650	319	1008	2855	
Kolkata	1658	275	-	-	919	682	962	884	759	545	1358	362	1921	311	2659	314	2821	272	2508	229	1342	586	791	506	1609	4966	
Lucknow	1082	271	937	303	890	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	826	905	611	731	510	820	871	896	1188	1314	1329	1524	1273	1618	1065	1947	1275	1612	772	1014	972	14191	
Nagpur	1057	2950	292	3120	475	3260	340	2710	516	3239	474	3220	788	2720	1001	2790	974	2470	799	2980	498	2640	436	2370	638	34520	
Nasik	2173	1187	848	1920	1192	1620	903	1320	705	1885	1487	1529	2133	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	450	1296	373	1441	180	1592	485	1923	505	1321	580	961	430	1106	5923	
Pune	2013	761	650	655	1250	719	1069	461	1123	523	1280	657	1343	749	1255	758	1313	932	1072	671	1753	755	1615	839	1311	8480	
Raipur	1434	-	766	-	708	-	637	-	816	-	810	-	883	-	1038	-	1250	-	1487	-	1275	-	826	-	994	-	
Ranchi	880	661	848	654	830	615	759	493	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	45	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	

(Source: NHB, National Horticulture Database 2011)

Table 4.34: India's trade in eggplant/brinjal

(Quantity in t; Value in 000'US\$; Unit value in US\$/t)

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
2000	8	0.00	2	0.00	0	0.00	0	0.00	0
2001	25	0.01	5	0.00	0	0.00	0	0.00	0
2002	0	0.00	0	0.00	0	0.00	0	0.00	0
2003	630	0.22	488	0.22	0	0.00	0	0.00	0
2004	670	0.20	695	0.25	0	0.00	0	0.00	0
2005	155	0.05	229	0.08	0	0.00	1	0.00	0
2006	1902	0.54	2140	0.78	0	0.00	0	0.00	0
2007	338	0.09	465	0.13	0	0.00	0	0.00	0
2008	29	0.01	28	0.01	1	0.00	1	0.00	1000
2009	174	0.04	47	0.01	0	0.00	1	0.00	0
2010	149	0.03	36	0.01	0	0.00	0	0.00	0

(Source: www.faostat.fao.org)

Table 4.35: Major destinations of brinjal exports from India

(Quantity in Kg; Value in ₹)

Country	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
Sri lanka	0 (0)*	0.0 (0)	140000.0 (81)	1414600.0 (63)	28000.0 (86)	234196.0 (58)
Maldives	0 (0)	0.0 (0)	7016.0 (4)	213131.0 (9)	4040.0 (12)	137884.0 (34)
Singapore	0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	490.0 (2)	28946.0 (8)
Sudan	0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	23.0 (0)	1847.0 (0)
Mali	0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	11.0 (0)	280.0 (0)
Mexico	0 (0)	0.0 (0)	16.0 (0)	477.0 (0)	0.0 (0)	0.0 (0)
Netherland	585.0 (2)	68408.0 (6)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Canada	23574.0 (80)	1096955.0 (90)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Nepal	0 (0)	0.0 (0)	18576.0 (11)	202816.0 (9)	0.0 (0)	0.0 (0)
Italy	25.0 (0)	1199.0 (0)	70.0 (0)	1553.0 (0)	0.0 (0)	0.0 (0)
UK	25.0 (0)	1346.0 (0)	3700.0 (2)	351567.0 (16)	0.0 (0)	0.0 (0)
Bosnia	1621.0 (6)	16084.0 (1)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Bahrain	3241.0 (11)	31475.0 (3)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
UAE	0.0 (0)	0.0 (0)	4300.0 (2)	69740.0 (3)	0.0 (0)	0.0 (0)
Bangladesh	270.0 (1)	3953.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Total	29341.0 (100)	1219420.0 (100)	173678.0 (100)	2253884.0 (100)	32564.0 (100)	403153.0 (100)

*Figures in parentheses indicate percentage to the total
(Source:www.apeda.gov.in)

Cabbage

Table 4.36: Area, production and yield of cabbage and other brassicas

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	1.35	23.40	17.3	21	288	14
1962	1.37	23.05	16.9	22	295	13
1963	1.33	23.69	17.8	23	305	13
1964	1.29	24.34	18.9	24	315	13
1965	1.27	24.36	19.2	25	325	13
1966	1.28	25.43	19.9	27	350	13
1967	1.28	26.21	20.5	30	400	13
1968	1.31	26.55	20.2	38	500	13
1969	1.34	26.75	20.0	45	600	13
1970	1.34	27.84	20.7	52	700	13
1971	1.37	28.18	20.6	59	800	14

Contd...

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1972	1.35	27.39	20.3	66	900	14
1973	1.39	30.16	21.7	73	1000	14
1974	1.40	30.39	21.7	80	1100	14
1975	1.40	31.43	22.4	87	1200	14
1976	1.40	33.51	23.9	94	1300	14
1977	1.41	33.00	23.3	101	1400	14
1978	1.52	37.81	24.8	108	1500	14
1979	1.51	35.00	23.2	115	1600	14
1980	1.56	35.81	23.0	121	1700	14
1981	1.58	36.74	23.2	128	1800	14
1982	1.59	39.38	24.8	134	1900	14
1983	1.58	37.82	23.9	141	2000	14
1984	1.64	41.49	25.3	148	2100	14
1985	1.61	38.86	24.2	148	2100	14
1986	1.70	39.99	23.5	155	2200	14
1987	1.79	38.47	21.5	155	2200	14
1988	1.69	38.78	22.9	160	2312	14
1989	1.72	39.09	22.8	165	2342	14
1990	1.65	39.35	23.8	168	2374	14
1991	1.70	40.11	23.6	178	2796	16
1992	1.73	39.43	22.7	216	4357	20
1993	1.86	42.35	22.8	230	3590	16
1994	1.92	42.56	22.1	220	3910	18
1995	2.06	45.01	21.8	290	4000	14
1996	2.20	47.86	21.7	291	4055	14
1997	2.19	48.25	22.0	230	4200	18
1998	2.30	50.16	21.8	230	5320	23
1999	2.50	53.51	21.4	240	5620	23
2000	2.78	75.84	27.3	258	5909	23
2001	2.63	72.30	27.4	245	5507	22
2002	2.52	69.46	27.5	258	5678	22
2003	2.48	69.22	27.9	234	5392	23
2004	2.38	67.76	28.5	255	5595	22
2005	2.39	66.57	27.8	288	6114	21
2006	2.22	65.66	29.5	254	5637	22
2007	2.20	62.24	28.3	249	5584	22
2008	2.24	64.88	29.0	266	5910	22
2009	2.26	64.23	28.5	310	6870	22
2010	2.26	64.45	28.4	301	7281	24
2011	2.37	68.84	29	369	7949	22
ACGR for last ten years (2002-2011)	-0.97	-0.58	0.39	3.51	3.73	0.21

(Source: www.faostat.com)

Table 4.37: Major cabbage producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total global area under cabbage	Production (000't)	% share to total world cabbage production	Productivity (t/ha)
China	739.2	34.3	25156.6	42.2	34.0
India	369.0	17.1	7949.0	13.3	21.5
Russia	115.6	5.4	2732.5	4.6	23.6
Japan	34.0	1.6	2247.7	3.8	66.1
Korea	32.8	1.5	2035.7	3.4	62.1
Ukraine	70.7	3.3	1497.4	2.5	21.2
Indonesia	67.4	3.1	1384.7	2.3	20.6
Poland	33.1	1.5	1141.2	1.9	34.5
USA	26.9	1.2	1034.1	1.7	38.5
Romania	47.2	2.2	983.6	1.7	20.8
Others	616.6	28.6	13392.5	22.5	21.7
Total	2152.5	100.0	59554.9	100.0	27.7

(Source: NHB, National Horticulture Database 2011)

Table 4.38: Percent share of area and production of cabbage in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
1987-88	42.6	1	602	1.2	14.1
1991-92	177.3	3.2	2771.2	4.7	15.6
1992-93	188.9	3.7	3236.8	5.1	17.1
1993-94	231.7	4.8	3592.9	5.5	15.5
1994-95	216.8	4.3	3906.3	5.8	18
1995-96	218.4	4.1	3861.7	5.4	17.7
1996-97	210.2	3.8	3613.4	4.8	17.2
1997-98	228.2	4.1	5323.8	7.3	23.3
1998-99	239.9	4.1	5624	6.4	23.4
1999-00	258.3	4.3	5909.4	6.5	22.9
2000-01	245.4	3.9	5506.5	5.9	22.4
2001-02	258.1	4.2	5678.2	6.4	22
2002-03	233.8	3.8	5392	6.4	23.1
2003-04	255.1	4	5594.6	6	21.9
2004-05	287.8	4.3	6113.5	6	21.2
2005-06	253.5	3.5	5637.3	5.1	22.2
2006-07	249	3.3	5584	4.9	22.4
2007-08	266	3.4	5910	4.6	22.2
2008-09	310	3.9	6870	5.3	22.2
2009-10	331	4.1	7281.4	5.4	22
2010-11	369	4.3	7949	5.4	21.5

(Source: www.indiastat.com)

Table 4.39: State-wise area, production and yield of cabbage in India from 2001-02 to 2010-11

States/UTs	2001-02			2002-03			2003-04			2004-05			2005-06		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Andhra Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Assam	24.1	474	19.7	24.164	476.113	19.7	24.27	479.3	19.7	24.57	485.2	19.7	24.3	480.3	19.8
Bihar	35.1	561.4	16	35.4	566	16	36.5	584.1	16	59.7	955.2	16	33.7	931.6	27.6
Chhattisgarh	-	-	-	2.9	116.4	40	3.1	122.3	39.5	4.6	51.4	11.1	6.8	114	16.8
Gujarat	11.8	189.7	16.1	10.4	179.7	17.3	10.4	179.7	17.3	14.4	255.2	17.7	19	329.2	17.3
Haryana	7.3	107.2	14.7	6.7	95.7	14.4	9.1	118	20.1	10.4	165.3	30	12.3	172.2	30
Himachal Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jammu & Kashmir	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jharkhand	6.5	130.7	20	8	112.5	20	-	-	-	-	-	-	-	-	-
Karnataka	-	-	-	-	-	-	-	-	-	6.3	129.1	20	6.4	134.2	20
Madhya Pradesh	-	-	-	-	-	-	7.3	146.9	-	8.2	164.6	15.9	3.8	75	14
Maharashtra	13.4	334.7	25	13.5	336.4	25	13.7	343.7	25.1	14.1	348.9	24.8	15	381	25.4
Manipur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mizoram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nagaland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Odisha	44.9	1238.9	27.6	33.4	913.8	27.4	33.5	925.1	27.6	33.7	931	27.6	33.6	578.3	15.8
Punjab	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tamil Nadu	-	-	-	2.2	112.5	14	-	-	-	-	-	-	-	-	-
Tripura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uttar Pradesh	7	209.4	30	7	209.7	30	7	209.8	30	7	209.9	30	7	209.9	30
Uttarakhand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Bengal	65.9	1843.7	28	68.6	1938.7	28.3	70.7	1830.5	25.9	71.3	1863.9	26.1	74.7	1982.7	26.5
Others	42.3	588.5	-	21.8	320.7	-	39.6	655.3	16.6	33.5	553.8	16.5	27.7	553.1	19.2
Total India	258.3	5678.2	21.9	234.06	5378.2	22.9	255.2	5594.7	23.8	287.8	6113.5	21.3	264.3	5941.5	21.9

Table continues

States/UTs	2006-07			2007-08			2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Andhra Pradesh	-	-	-	-	134.3	-	9	134.3	-	9	136.1	-	28.5	427.5	15
Assam	0	0	-	-	-	-	29.2	585.2	20	29.8	614.2	20.6	30.7	629.7	20.5
Bihar	37	623.5	16.8	37.4	638.1	17.1	38.3	677	17.7	38.7	689.9	17.8	39.2	711.1	18.2
Chhattisgarh	8	128.7	16	11.3	177.4	15.7	13.6	213.7	15.7	13.7	227.8	16.7	14.7	257.7	17.5
Gujarat	19.7	340	17.3	23	396.2	17.2	23	404.6	17.6	25.6	473.8	18.5	28.2	553.6	19.6
Haryana	10.8	172.9	16	11.3	152.6	13.5	11.2	214.2	192	12.2	218.3	17.8	13.8	262.4	19
Himachal Pradesh	-	-	-	-	119.8	-	4.5	140.8	-	4.5	144.7	-	-	144.7	-
Jammu & Kashmir	-	-	-	-	24.2	-	3.6	63.5	-	2.9	66.7	-	-	66.7	-
Jharkhand	10.5	168.2	16	11.4	183	16.1	15.4	246	16	26.8	429.3	16	27	451.7	16.7
Karnataka	6.6	138.2	20.7	8.2	170.2	20.8	8.6	178.7	20.8	8.9	176.2	19.8	-	-	-
Madhya Pradesh	6.3	125	-	-	129.2	-	7.1	142.5	-	7.9	157.3	-	-	157.3	-
Maharashtra	14.4	364.7	25.4	15.1	383	25.4	15	381	25.4	17	442	26	18	360	20
Manipur	-	-	-	-	27.4	-	4	43.8	-	4	43.8	-	-	74.7	-
Mizoram	-	-	-	-	5	-	3	23.9	-	2.4	44.4	-	-	45.8	-
Nagaland	-	-	-	-	3	-	0.3	3	-	0.3	3	-	-	3	-
Odisha	33.8	933.3	27.6	33.8	935.6	27.7	34.8	966.2	27.8	35.8	999.9	27.9	41.2	1152.1	28
Punjab	-	-	-	-	88.2	-	4.1	91.9	-	4.3	97.1	-	-	97.5	-
Tamil Nadu	1.7	93.4	53.4	2.5	141.2	56.2	2.7	153.9	-	2.6	72.8	-	-	78.6	-
Tripura	-	-	-	-	41.3	-	1.9	41.4	-	1.9	42.6	-	-	42.6	-
Uttar Pradesh	7	209.9	-	-	68.7	-	1.8	56.1	-	2	38.7	-	-	40.2	-
Uttarakhand	-	-	-	-	61.7	-	5.1	65.3	-	5.1	68.1	-	-	70.1	-
West Bengal	72.8	1968.1	27	73.2	2016.1	27.5	74.1	2042.7	27.6	74.3	2059	27.7	75.3	2087.8	27.7
Others	-	-	19.3	41.6	858.2	20.7	47.2	960.3	20.4	48.2	951	19.7	52.3	1055.1	20.2
Total India	228.6	5265.9	23.2	268.8	6754.4	23.4	357.5	7830.0	20.7	377.9	8196.7	20.8	368.9	8769.9	20.2

(Source: www.indiastat.com)

Table 4.40: District-wise area production and yield of cabbage

Andhra Pradesh (Cabbage + Knol-Khol)(2006-07)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Srikakulam	301	4515	15
VijayaNagaram	374	5610	15
Vishakhapatnam	1700	25500	15
East Godawari	221	3315	15
West Godawari	81	1215	15
Krishna	230	3450	15
Guntur	250	3750	15
Prakasam	20	300	15
Nellore	200	3000	15
Coastal Area	3377	50655	15
Chittoor	115	1725	15
Anatapuram	260	3900	15
Karnool	60	900	15
Rayalaseema Region	435	6525	15
Andhra Region	3812	57180	15
Mehaboob Nagar	110	1650	15
Ranga Reddy	519	7785	15
Medak	200	3000	15
Nizamabad	60	900	15
Adilabad	1575	23625	15
Karim Nagar	37	555	15
Warangal	200	3000	15
Khamam	60	900	15
Nalgonda	80	1200	15
Telangana Region	2841	42615	15
Total	6653	99795	15

(Source: www.indiastat.com)

Bihar (2005-06)

Patna	2043	33097	16
Nalanda	1648	26698	16
Bhojpur	673	10768	16
Buxar	442	6984	16
Rohtas	578	8670	15
Kaumur	391	5865	15
Gaya	852	12950	15
Jehanabad	297	4574	15

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Arwal	272	4134	15
Nawadah	703	10545	15
Aurangabad	677	10155	15
Saran	939	14273	15
Siwan	814	12291	15
Gopatganj	1009	15438	15
Mujaffarpur	2696	43136	16
E.Champaran	1533	23762	16
W.Champaran	1542	24364	16
Sitamati	887	13482	15
Sheohar	621	9501	15
Vaishali	2333	38261	16
Darbhanga	1606	25696	16
Madhubani	1398	21669	16
Samastipur	1702	27232	16
Begusarai	997	15952	16
Munger	457	7312	16
Sheikhpura	168	2604	16
Lakhisarai	143	2288	16
Jamui	369	5535	15
Khagaria	638	10080	16
Bhagalpur	1141	18256	16
Banka	398	5970	15
Saharsa	898	14548	16
Supaul	421	6887	16
Madhepura	1458	23865	16
Purnea	1052	16832	16
Kisanganj	528	8448	16
Araria	516	7998	16
Katihar	1762	28192	16
Total	36602	578312	16

(Source: www.indiastat.com)

Haryana (2006-07)

Panchkula	70	500	7
Ambala	210	4250	20
Yamunanagar	1210	28935	24
Kurukshetra	455	4410	10
Kaithal	455	6635	15
Karnal	579	8458	15

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Panipat	170	1312	8
Sonipat	2365	37790	16
Rohtak	260	2100	8
Jhajjar	200	1590	8
Faridabad	640	20440	32
Narnual	410	10390	25
Rewari	200	3000	15
Gurgaon	993	8145	8
Bhiwani	510	6050	12
Hissar	330	2600	8
Fatehabad	715	10900	15
Sirsa	410	8070	20
Jind	560	5850	10
Mewat	85	1460	17
Total	10827	172885	16

(Source: www.indiastat.com)

Himachal Pradesh (2005-06)

Bilaspur	30	840	28
Chamba	64	1400	22
Hamirpur	70	1750	25
Kangra	270	7487	28
Kinnaur	80	1400	18
Kullu	820	24600	30
Lahaul&Spiti	29	235	8
Mandi	370	10778	29
Shimla	1700	59500	35
Sirmour	125	5175	41
Solan	71	1775	25
Una	48	980	20
Total	3677	115920	32

(Source: www.indiastat.com)

Odisha (2006-07)

Balasore	521	14387	28
Bhadrak	786	21705	28
Bolangir	2443	67463	28
Sonepur	457	12620	28
Cuttack	1899	52488	28

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
J.S. Pur	3265	90185	28
Jaipur	117	3232	28
Kendrapara	1704	47056	28
Dhenkanal	1427	39408	28
Angul	1303	36484	28
Ganjam	1534	42362	28
Gajapati	344	9500	28
Keonjhar	2725	75253	28
Kalahandi	365	10081	28
Khariar	282	7787	28
Koraput	782	21595	28
Malkangiri	909	25102	28
N.W. Pur	303	8367	28
Rayagade	282	7789	28
Phulbani	2505	69177	28
Boudh	1315	36314	28
Mayurbhanj	1681	46421	28
Puri	239	6600	28
Khurda	2440	67381	28
Nayagarh	1092	30156	28
Sambalpur	453	12510	28
Deogarh	89	2458	28
Bargarh	120	3317	28
Jharsuguda	95	2623	28
Sundargarh	2300	63515	28
Total	33777	933336	28

(Source: www.indiastat.com)

Punjab (2005-06)

Hoshiarpur	190	3908	21
Jalandhar	500	11393	23
Ludhiana	156	3663	23
Ferozepur	54	1184	22
Amritsar	328	6606	20
Gurdaspur	80	1832	23
Kapurthala	615	14293	23
Bathinda	38	929	24
Sangrur	154	3564	23
Patiala	214	5358	25
Ropar	49	1000	20

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Faridkot	10	204	20
Mansa	22	453	21
Fatehgarh Sahib	563	11558	21
Moga	62	1348	22
Mukatsar	6	130	22
Nawashehar	219	4041	18
Total	3260	71464	22

(Source: www.indiastat.com)

Rajasthan (2006-07)

Alwar	11	25	2
Bharatpur	17	82	5
Bundi	85	462	5
Chittorgarh	2	6	3
Hanumangarh	71	1138	16
Jalore	44	97	2
Jhalawar	46	46	1
Jodhpur	36	22	1
Kota	114	3556	31
Nagaur	12	23	2
Udaipur	27	5	0
Total	465	5462	12

(Source: www.indiastat.com)

Tamil Nadu (2005-06)

Coimbatore	4	214	53.5
Cuddalore	23	1229	53.43
Dharmapuri	1	53	53
Dindigul	19	1015	53.42
Erode	32	1710	53.44
Krishnagiri	400	14849	37.12
Namakkal	3	160	53.33
The Nilgiris	963	57971	60.2
Theni	172	9189	53.42
Vellore	2	107	53.5
Total	1619	86497	53.43

(Source: www.indiastat.com)



Uttar Pradesh

[Area (A) in ha; Production (P) in t; Yield (Y) in t/ha]

District/division	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Meerut	139	4350	31	247	7751	31	272	8604	32
Agra	231	7192	31	280	8742	31	309	9683	31
Aligarh	116	3615	31	138	4305	31	152	4748	31
Bareilly	23	725	32	0	0	0	0	0	0
Kanpur	91	2848	31	64	2013	31	71	2288	32
Allahabad	19	600	32	70	2215	32	78	2476	32
Jhansi	5	157	31	4	126	32	4	126	32
Chitrakoot Dham	15	470	31	20	632	32	22	699	32
Varanasi	20	630	32	23	720	31	26	825	32
Mirzapur	0	0	0	4	126	32	4	127	32
Azamgarh	9	284	32	29	919	32	31	985	32
Gorakhpur	85	2178	26	107	2749	26	118	3034	26
Basti	30	780	26	30	788	26	33	867	26
Shri Patan devi	85	2678	32	60	1894	32	66	2088	32
Lucknow	155	4883	32	272	8615	32	300	9507	32
Faziabad	119	3767	32	92	2922	32	101	3402	34
Total	1142	35157	31	1440	44517	31	1587	49459	31

(Source: State Horticulture Mission, Government of Uttar Pradesh)

West Bengal (2005-06)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Darjeeling	0.97	33.00	34.02
Jalpaiguri	4.76	118.52	24.86
Coochbehar	6.90	186.15	26.96
North Dinajpur	3.50	65.60	18.74
South Dinajpur	4.03	125.67	31.11
Malda	3.94	112.56	28.57
Murshidabad	12.13	331.50	27.33
Nadia	6.97	217.30	31.17
North 24-Parganas	4.67	130.10	27.85
South 24-Parganas	5.40	165.40	30.63
Howrah	1.18	34.53	29.11
Hooghly	2.85	44.27	15.52
Burdwan	3.25	92.30	28.40
Birbhum	2.37	54.55	22.98
Bankura	4.75	144.59	30.39
Purulia	1.80	51.59	28.66
Midnapur (West)	3.44	34.93	10.13
Midnapur (East)	1.75	40.11	22.92
West Bengal	74.71	1982.67	26.54

(Source: www.indiastat.com)

Table 4.41: Monthlywholesale price index (WPI) of cabbage in India {(Base year: 1993-94; 2004-05=100) (April 1994 to July 2012)}

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
1993-94=100												
1994				74.2	92.6	147.2	118.2	161.2	153.6	137.9	101.5	64.8
1995	54.5	51.4	54.9	62.1	95.3	153.1	179.5	160.6	144.0	216.3	201.3	147.5
1996	85.4	67.8	71.4	105.6	162.3	157.6	167.0	147.8	124.9	149.5	118.1	98.1
1997	80.0	76.2	62.3	74.2	97.0	101.2	124.7	161.6	234.6	278.9	152.3	114.7
1998	113.4	88.4	137.1	149.7	167.6	273.6	314.4	183.4	150.6	219.5	321.6	232.8
1999	88.3	48.8	45.1	46.4	82.9	90.9	90.9	90.9	170.3	183.9	183.9	183.9
2000	183.9	183.9	183.9	148.0	159.7	128.7	171.3	180.0	186.2	238.7	240.6	164.5
2001	96.1	71.3	71.3	75.9	91.5	157.3	296.7	257.1	243.7	307.7	226.2	147.3
2002	102.8	101.4	97.6	108.0	109.1	141.3	227.3	204.8	172.3	178.5	157.1	114.7
2003	92.5	79.6	85.3	100.9	113.6	221.0	256.3	213.9	183.3	179.4	202.8	168.9
2004	119.5	89.6	85.0	87.8	104.5	135.5	136.6	168.9	186.6	199.1	244.1	162.1
2005	86.6	88.9	88.9	103.4	164.1	214.6	243.6	204.5	195.4	208.6	199.5	178.2
2006	162.4	110.0	79.6	74.8	77.9	126.6	148.1	230.8	236.6	261.1	244.3	170.1
2007	125.3	132.2	189.2	209.5	235.2	249.2	304.9	331.6	245.8	248.9	218.1	171.3
2008	166.8	129.9	120.8	103.3	146.7	201.3	225.7	218.2	249.0	279.0	420.8	337.5
2009	260.6	161.1	149.9	158.8	184.1	219.8	284.1	303.7	249.1	259.1	214.5	195.5
2010	151.6	138.1	144.4	145.5	201.5	279.0	329.4	283.1				
2004-05=100												
2005				77.7	121.5	158.0	179.6	151.2	137.9	149.5	150.3	123.2
2006	132.8	85.0	61.1	54.2	56.3	86.0	103.0	159.3	162.3	177.1	165.5	121.6
2007	97.9	107.9	143.0	157.7	170.3	181.1	216.6	232.3	174.1	174.8	158.9	126.1
2008	100.7	98.8	93.9	83.3	107.4	137.9	153.3	157.1	172.1	194.4	303.1	255.4
2009	219.9	125.8	112.4	109.7	123.5	148.5	190.8	213.3	178.7	184.8	157.7	147.6
2010	126.3	113.0	113.9	115.3	154.2	222.6	260.1	236.1	226.0	212.4	246.6	302.0
2011	282.0	167.1	150.5	130.2	140.7	157.7	199.6	231.6	287.5	306.0	253.1	198.8
2012	162.4	201.6	269.9	416.1	437.6	447.1	384.4					

(Source: www.indiastat.com)

Table 4.42: Monthly average wholesale price (WP) and arrival (AR) of cabbage during the period January to December, 2011

[Average wholesale price (WP) in ₹/q and Arrival (AR) in tones]

Market	Jan		Feb		March		April		May		June		July		Aug		Sept		Oct		Nov		Dec		Total		
	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	
Abohar	-	-	-	-	-	-	-	-	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	286	6719	355	6525	494	6917	547	6193	751	5404	389	5709	3433	
Ahmedabad	6384	7040	8783	703	8700	396	9477	158	11960	137	12120	250	12681	337	12350	16	-	-	-	-	-	-	-	-	-	10307	9037
Amritsar	-	-	3500	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3920	600	3393	397	3632	679	3611	1681	
Bangalore	5135	1795	6113	1315	6846	1000	8105	990	8846	940	8661	454	9948	1065	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	13269	26	10158	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	910
Bhubaneshwar	5179	287	6190	237	6665	293	7764	221	8013	157	7771	57	8081	52	-	-	6436	93	6744	615	6001	687	6083	880	6812	3581	
Chandigarh	3906	9	4228	231	4877	335	8667	37	10316	185	-	-	2375	30	-	-	4375	45	-	-	4225	1260	4434	803	5267	2935	
Chennai	7910	456	8329	452	11500	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9216	958
Dehradun	4088	102	5598	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5324	193	4842	251	4963	597	
Delhi	4187	27797	4549	13523	5402	6362	5362	3668	6407	1360	5156	232	-	-	-	-	5056	83726	5345	1088759	5057	118518	5362	95777	5188	459842	
Gangatok	4250	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4250	8
Guwahati	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7375	152	5898	393	5379	504	6217	1049	
Hyderabad	5040	5424	3833	4805	4637	346	6134	4449	5712	4293	4569	5531	5360	6481	7656	3769	6167	203	-	-	-	-	-	-	-	5456	45301
Jaipur	5544	155	5781	78	-	-	-	-	-	-	-	-	-	-	6155	120	-	-	-	-	4528	193	4081	1167	5218	1713	
Jalandhar	4440	941	4824	367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3135	405	2667	249	-	-	-	3767	1962
Jammu	4038	366	4005	52	-	-	-	-	-	-	-	-	-	-	5171	323	4631	12816	4764	32506	4817	15620	4140	2351	4509	64034	
Kanpur	4105	331	4895	179	4563	146	5730	154	6650	16	-	-	-	-	5850	250	4656	2892	4432	1992	-	-	-	-	-	5110	5960
Kolkata	5565	4632	6052	1819	6293	499	6787	943	6922	54	-	-	-	-	-	-	4860	1168	5657	7744	4986	10768	4321	10430	5716	38057	
Lucknow	3925	685	4553	274	4841	157	5746	143	6324	101	-	-	825	40	4100	29	4510	611	4661	1864	4324	1464	4587	1013	4400	6381	
Mumbai	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5358	7260	5760	6720	5667	26845	
Nagpur	3136	920	3487	885	4673	335	8260	152	9802	197	8731	283	8610	3410	6333	1205	5638	1940	5506	1838	6096	940	5333	894	6300	12999	
Patna	3838	345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4778	1890	3759	3060	3669	1560	4011	6855	
Pune	6384	672	7422	234	1800	70	-	-	-	-	-	-	2300	55	-	-	-	-	7482	407	7050	610	6021	929	5494	2977	
Raipur	5424	226	5735	55	5654	43	6386	24	6950	2	-	-	-	-	-	-	-	-	8700	24	8600	56	-	-	6778	430	
Ranchi	1876	759	1953	670	1887	799	3244	520	3433	488	3470	207	-	-	2743	135	3738	535	3346	472	2050	533	3720	553	2951	5671	
Srinagar	3188	640	3350	265	-	-	-	-	-	-	-	-	2300	8	3875	37	4288	1193	4950	2740	4352	1505	3525	1415	3729	7803	
Surat	3440	285	4023	190	4865	287	5180	414	-	-	-	-	-	-	-	-	-	-	3600	218	3250	329	3254	318	3945	2041	
Trivendrum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6985	160	6985	160

(Source: NHB, National Horticulture Database 2011)

Table 4.43: India's trade in cabbage and other brassicas

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1961	77	0.06	12	0.12	0	0.00	0	0.00	0
1962	9	0.01	2	0.01	0	0.00	0	0.00	0
1963	57	0.04	8	0.04	0	0.00	0	0.00	0
1964	0	0.00	0	0.00	0	0.00	0	0.00	0
1965	0	0.00	0	0.00	0	0.00	0	0.00	0
1966	1	0.00	0	0.00	0	0.00	0	0.00	0
1967	4	0.00	0	0.00	0	0.00	0	0.00	0
1968	0	0.00	0	0.00	0	0.00	0	0.00	0
1969	19	0.01	3	0.01	0	0.00	0	0.00	0
1970	102	0.05	18	0.07	0	0.00	0	0.00	0
1971	4	0.00	1	0.00	0	0.00	0	0.00	0
1972	26	0.01	3	0.01	0	0.00	0	0.00	0
1973	1	0.00	0	0.00	0	0.00	0	0.00	0
1974	391	0.16	29	0.06	0	0.00	0	0.00	0
1975	500	0.19	88	0.17	0	0.00	0	0.00	0
1976	113	0.04	18	0.02	0	0.00	0	0.00	0
1977	1	0.00	0	0.00	0	0.00	0	0.00	0
1978	0	0.00	0	0.00	4	0.00	1	0.00	250
1979	0	0.00	0	0.00	0	0.00	0	0.00	0
1980	0	0.00	0	0.00	0	0.00	0	0.00	0
1981	10	0.00	5	0.00	0	0.00	0	0.00	0
1982	7	0.00	20	0.02	0	0.00	0	0.00	0
1983	29	0.01	15	0.02	0	0.00	0	0.00	0
1984	14	0.00	7	0.01	0	0.00	0	0.00	0
1985	20	0.00	12	0.01	0	0.00	0	0.00	0

Contd...

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1986	132	0.03	47	0.04	0	0.00	0	0.00	0
1987	67	0.02	27	0.02	0	0.00	0	0.00	0
1988	96	0.02	21	0.01	0	0.00	0	0.00	0
1989	44	0.01	13	0.01	0	0.00	0	0.00	0
1990	2	0.00	2	0.00	0	0.00	0	0.00	0
1991	0	0.00	0	0.00	0	0.00	0	0.00	0
1992	20	0.00	5	0.00	0	0.00	0	0.00	0
1993	0	0.00	0	0.00	0	0.00	0	0.00	0
1994	135	0.01	12	0.00	0	0.00	0	0.00	0
1995	34	0.00	4	0.00	0	0.00	0	0.00	0
1996	54	0.01	6	0.00	431	0.04	26	0.00	60
1997	26	0.00	16	0.00	418	0.04	20	0.00	48
1998	9	0.00	9	0.00	1091	0.09	41	0.01	38
1999	18	0.00	7	0.00	2046	0.16	148	0.02	72
2000	26	0.00	14	0.00	2158	0.16	140	0.02	65
2001	39	0.00	31	0.01	2519	0.19	215	0.04	85
2002	38	0.00	14	0.00	2969	0.22	250	0.04	84
2003	474	0.04	108	0.02	851	0.06	57	0.01	67
2004	696	0.06	210	0.04	2209	0.15	155	0.02	70
2005	744	0.06	257	0.04	1988	0.12	162	0.02	81
2006	378	0.03	132	0.02	3692	0.22	238	0.03	64
2007	1122	0.07	285	0.03	4604	0.26	385	0.04	84
2008	796	0.05	322	0.03	5091	0.27	472	0.04	93
2009	2990	0.20	535	0.06	2205	0.12	189	0.02	86
2010	4909	0.27	1068	0.10	2240	0.11	154	0.01	69

(Source: www.faostat.fao.org)

Table 4.44: Major destinations of cabbage from India

(Quantity in t; Value in Lakhs ₹)

Country	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
UAE	1420.9 (79)*	86.4 (65)	724.7 (85)	63.9 (85)	168.1 (42)	25.2 (55)
Maldives	201.2 (11)	11.6 (9)	77.0 (9)	7.8 (10)	214.9 (52)	19.2 (42)
Nepal	22.5 (1)	1.3 (1)	21.3 (3)	1.1 (2)	20.7 (5)	0.9 (2)
Singapore	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (1)	0.3 (1)
Bangladesh	0.0 (0)	0.0 (0)	13.0 (2)	0.6 (1)	0.0 (0)	0.0 (0)
Mauritius	144.5 (9)	34.6 (25)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Oman	0.0 (0)	0.0 (0)	8.8 (1)	0.9 (1)	0.0 (0)	0.0 (0)
Qatar	0.2 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Saudi Arabia	0.0 (0)	0.0 (0)	3.0 (0)	0.5 (1)	0.0 (0)	0.0 (0)
Total	1789.2 (100)	133.9 (100)	847.9 (100)	74.8 (100)	404.9 (100)	45.6 (100)

* Figures in parenthesis give percentage to the total exports.

(Source: www.apeda.gov.in)

Table 4.45: Major destinations of cabbage seeds export from India

(Quantity: Kg, Value: ₹)

Country	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
Bangladesh	330	2776875	606	1910606	35717	329211
Pakistan	8220	623926	11308	1817679	25906	3472805
Sri lanka	15	149804	0	0	62	397574
China	0	0	14060	1742182	50	287398
Mauritius	0	0	10	77463	132	254843
Philippines	0	0	0	0	20	144800
Nepal	68	66966	97	669920	40	144615
Oman	30	289585	2260	339195	900	43992
USA	395	163571	286	142691	354	39481
UAE	20	17260	0	0	4	34123
Others	3272	5789755	546	376913	0	0
Total	12350	9877742	29173	7076649	63185	8748842

(Source: www.agriexchange.apeda.gov.in)

Cauliflower

Table 4.46: Area, production and yield of cauliflowers and broccoli

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	0.24	3.39	14.4	41	413	10
1962	0.23	3.09	13.2	40	400	10
1963	0.24	3.36	13.9	40	410	10
1964	0.26	3.60	13.9	50	500	10
1965	0.25	3.60	14.3	50	520	10
1966	0.27	3.79	14.2	60	600	10
1967	0.28	4.02	14.4	60	650	11
1968	0.29	4.09	14.0	70	750	11
1969	0.31	4.31	14.0	80	900	11
1970	0.31	4.32	13.8	90	950	11
1971	0.31	4.34	13.9	90	1000	11
1972	0.32	4.47	14.2	100	1100	11
1973	0.32	4.49	13.8	100	1100	11
1974	0.34	4.79	14.2	110	1300	12
1975	0.34	4.76	13.9	110	1300	12
1976	0.35	4.89	13.9	120	1400	12
1977	0.37	5.10	13.9	130	1500	12
1978	0.39	5.45	14.1	140	1600	11
1979	0.40	5.54	13.8	150	1800	12
1980	0.42	5.94	14.2	160	1900	12
1981	0.44	6.29	14.4	170	2000	12
1982	0.45	6.56	14.5	180	2200	12
1983	0.47	6.75	14.4	190	2300	12
1984	0.48	6.95	14.5	190	2400	13
1985	0.51	7.44	14.7	200	2600	13
1986	0.52	7.66	14.9	200	2700	14
1987	0.54	8.14	15.0	210	2900	14
1988	0.55	8.66	15.6	220	3000	14
1989	0.57	8.87	15.4	230	3200	14
1990	0.59	9.13	15.4	239	3395	14
1991	0.56	9.05	16.0	203	2998	15
1992	0.58	10.32	17.8	222	4220	19
1993	0.59	10.02	17.1	190	2870	15
1994	0.65	11.42	17.6	230	3780	16
1995	0.66	11.90	18.0	235	4000	17

Contd...

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1996	0.74	13.26	17.8	280	4500	16
1997	0.76	13.81	18.1	290	5000	17
1998	0.74	13.63	18.4	250	4470	18
1999	0.76	14.10	18.5	250	4690	19
2000	0.79	14.99	19.1	250	4720	19
2001	0.80	15.11	18.9	260	4690	18
2002	0.84	15.71	18.6	270	4890	18
2003	0.89	16.46	18.5	280	4800	17
2004	0.97	17.06	17.7	268	4940	18
2005	0.95	16.61	17.5	239	4515	19
2006	1.04	17.79	17.2	289	5323	18
2007	1.08	18.33	16.9	302	5538	18
2008	1.06	18.79	17.8	312	5777	19
2009	1.14	19.85	17.3	349	6532	19
2010	1.16	20.03	17.4	348	6569	19
2011	1.21	20.88	17.3	369	6745	18
ACGR for last ten years (2002-2011)	3.86	3.13	-0.7	4.02	4.50	0.46

(Source:www.faostat.fao.org)

Table 4.47: Major cauliflower producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total cauliflower area	Production (000't)	% share to total cauliflower production	Productivity (t/ha)
China	391.0	35.0	7555.2	39.9	19.3
India	369.0	33.0	6745.0	35.6	18.3
Spain	29.0	2.6	511.1	2.7	17.6
Italy	17.9	1.6	427.4	2.3	23.9
France	26.1	2.3	371.0	2.0	14.2
Pakistan	12.6	1.1	313.4	1.7	24.8
USA	14.7	1.3	284.9	1.5	19.4
Poland	15.7	1.4	252.3	1.3	16.1
UK	16.5	1.5	188.3	1.0	11.4
Bangladesh	16.7	1.5	160.0	0.8	9.6
Others	209.5	18.7	2122.8	11.2	10.1
Total	1118.6	100.0	18931.5	100.0	16.9

(Source: NHB, National Horticulture Database 2011)

Table 4.48: Percent share of area and production of cauliflower in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
1987-88	75.1	1.8	558.6	1.1	7.4
1991-92	202.8	3.6	2998.1	5.1	14.8
1992-93	230.7	4.6	3612.2	5.7	15.7
1993-94	188.5	3.9	2872.9	4.4	15.2
1994-95	216.1	4.3	3244.1	4.8	15
1995-96	220	4.1	2474	3.5	11.2
1996-97	233.9	4.2	3419	4.6	14.6
1997-98	248.2	4.4	4471	6.2	18
1998-99	255.4	4.4	4690.6	5.3	18.4
1999-00	248.3	4.1	4717.8	5.2	19
2000-01	256.3	4.1	4695.8	5	18.3
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	5323.1	4.8	18.4
2006-07	302	4	5538	4.8	18.3
2007-08	312	4	5777	4.5	18.5
2008-09	349	4.4	6532	5.1	18.7
2009-10	347.9	4.4	6569	4.9	18.9
2010-11	369	4.3	6745	4.6	18.3

(Source: www.indiastat.com)

Table 4.49: State-wise area production and yield of cauliflower in India from 2001-02 to 2010-11

States/UTs	2001-02			2002-03			2003-04			2004-05			2005-06		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Assam	16.3	239.7	14.7	16.508	242.7	14.7	16.62	246.9	14.8	16.95	251.7	14.8	16.7	247.8	14.8
Bihar	59.2	947.3	16	59.5	951.4	16	59.7	955.6	16	36.5	598.8	16.4	59.8	938.5	15.7
Chhattisgarh	-	-	-	-	-	-	3.9	61.9	15.9	5.8	61.8	10.6	9.6	123.5	12.9
Delhi	-	-	-	-	-	-	-	-	-	-	-	17.5	-	-	-
Gujarat	9.7	156.8	16.2	9.5	170.5	18	9.5	170.5	17.9	12.5	217.9	15.8	16.1	277.8	17.2
Haryana	12.4	189.9	15.3	14.8	239.7	16.3	17.8	281.3	15.8	17	268.8	14.8	21	302.8	14.4
Himachal Pradesh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jammu and Kashmir	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jharkhand	10	199.1	20	10	199.1	20	13.5	189.3	14	-	-	-	-	-	-
Karnataka	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Madhya Pradesh	6	95.4	16	-	-	-	3.1	50	16.1	3.5	56	16	8.6	137.4	16
Maharashtra	11.8	294.5	25	11.8	296	25	12	302.1	25.2	12.3	284	23	13	328.9	25.3
Manipur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mizoram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nagaland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Odisha	51.5	635.7	12.4	44.9	239.7	5.3	44.9	636.7	14.2	45	637.9	14.2	45.1	638.9	14.2
Punjab	-	-	-	-	-	-	5.2	121.9	23.4	5.5	128.1	23.5	5.6	131.4	23.5
Tamil Nadu	10	199.1	20	13.5	189.3	14	-	-	-	-	-	-	-	-	-
Tripura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uttar Pradesh	-	-	-	-	-	-	5.8	115.9	20	6.4	128.2	20	6.7	134.4	20
Uttarakhand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
West Bengal	58	1688	29.1	26	1735.7	27.1	63.7	1649.4	25.9	64.6	1685.2	26.1	65.6	1666.2	25.4
Others	35.2	415	-	20.2	379.1	-	25.7	348	13.5	12.4	196.4	15.8	24	332.7	13.9
Total India	280.1	5060.5	18.5	226.7	4643.2	17.4	281.4	5129.5	17.9	239.5	4514.8	17.6	291.8	5260.3	17.8

Table 5.44 continues

States/UTs	2006-07			2007-08			2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Assam	0	0	-	-	0	-	19.8	282.9	14.3	20.5	351.3	17.2	20.9	328.8	15.7
Bihar	60.1	1009	16.8	60.7	1023.9	16.9	61	1043.8	17.1	62.2	1080.1	17.4	62.6	1118.7	17.9
Chhattisgarh	10.4	137.5	13.2	16.6	251.9	15.2	61.1	241.4	15	16.1	268.9	16.7	18.4	306	16.6
Delhi	-	-	-	-	107.9	-	6.2	128.4	-	6.2	128.4	-	-	128.4	-
Gujarat	16.1	272.3	16.9	17.4	314.2	18.1	18.5	321.1	17.4	19.8	356.7	18	21.1	387.4	18.4
Haryana	30.3	417.2	13.8	24.2	349.9	14.5	25.9	500.3	19.3	25.7	487.7	19	30.3	531.9	17.6
Himachal Pradesh	-	-	-	-	52.7	-	2.8	54.5	-	2.8	56.6	-	-	56.6	-
Jammu & Kashmir	-	-	-	-	34.6	-	3.8	72.6	-	3.8	111.9	-	-	111.9	-
Jharkhand	18.6	297.8	16	20.7	331.9	16	27.3	436.9	16	20.6	329.8	16	22.2	355.4	16
Karnataka	-	-	-	-	74.2	-	4.3	77.9	-	5	89.5	-	-	94	-
Madhya Pradesh	10.5	167	16	10.8	172.5	16	11.9	190.2	16	12.7	171.5	16	16	171.5	15
Maharashtra	12.5	315	25.3	13.1	330.7	25.2	13	328.9	25.3	10.1	0	15.7	#	#	#
Manipur	-	-	-	-	14.2	-	1.9	19.2	-	1.9	19.2	-	-	23.8	-
Mizoram	-	-	-	-	0.4	-	0.3	3.3	-	0.4	0	-	-	0	-
Nagaland	-	-	-	-	0.2	-	0.1	0.2	-	0.1	0.2	-	-	0.2	-
Odisha	45.1	641.6	14.2	45.2	644.2	14.3	46.1	663.5	14.4	46.5	675.4	14.5	45.1	677.3	15
Punjab	6	138.3	-	-	148.1	-	7.9	181.7	-	8.2	191.2	-	-	205.2	-
Tamil Nadu	0.7	13.6	-	-	13.9	-	0.8	15.1	-	0.7	12.3	-	-	13.3	-
Tripura	-	-	-	-	24.7	-	1.7	22.4	-	1.7	27.6	-	-	27.6	-
Uttar Pradesh	6.9	107.4	20.2	7.7	158.4	20.4	8.3	167.2	20.4	9	180.9	20.3	20.3	194.5	19.5
Uttarakhand	-	-	-	-	37.7	-	2.5	36.4	-	2.5	34.6	-	-	37.7	-
West Bengal	66.1	1658.2	25.1	66.9	1682.1	25.1	68.8	1743.8	25.4	69.2	1754.1	25.4	70	1777.2	25.4
Others	-	-	15.4	47.6	848.3	17.8	52.5	969.1	18.5	57.2	1106.5	19.3	56.6	877.8	15.5
Total India	283.3	5174.9	17.5	330.9	6616.6	18.1	446.5	7500.8	18.3	402.9	7434.4	17.9	383.5	7425.2	17.6

(Source: www.indiastat.com)

Table 4.50: District-wise area production and yield of cauliflower

Bihar (2005-06)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Patna	3388	54508	16
Nalanda	2792	44672	16
Bhojpur	927	14461	16
Buxar	502	7781	16
Rohtas	1176	17640	15
Kaumur	709	10635	15
Gaya	1752	27156	16
Jehanabad	464	7238	16
Arwal	345	5348	16
Nawadah	1282	19230	15
Aurangabad	1303	19545	15
Saran	1927	29676	15
Siwan	1528	22920	15
Gopatganj	1812	27905	15
Mujaffarpur	3594	57504	16
E.Champaran	1848	28829	16
W.Champaran	2687	42992	16
SitamatTii	1268	19274	15
Sheohar	809	12378	15
Vaishali	4594	74423	16
Darbhanga	3988	62612	16
Madhubani	2502	38281	15
Samastipur	2821	45136	16
Begusarai	1678	26009	16
Munger	468	7488	16
Sheikhpura	202	3030	15
Lakhisarai	169	2535	15
Jamui	473	7095	15
Khagaria	739	11233	15
Bhagalpur	1423	22768	16
Banka	682	10230	15
Saharsa	1582	25312	16
Supaul	597	9433	16
Madhepura	1598	25568	16
Pumea	1883	29375	16
Kisanganj	809	12944	16
Araria	789	12429	16
Katihar	2668	43222	16
Total	59778	938815	16

(Source: www.indiastat.com)



Haryana (2006-07)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Panchkula	750	10000	13
Ambala	1735	31385	18
Yamunanagar	2046	107880	53
Kurukshetra	1070	14555	14
Kaithal	807	12370	15
Karnal	1606	18580	12
Panipat	2450	22195	9
Sonapat	3320	53120	16
Rohtak	650	7850	12
Jhajjar	500	4830	10
Faridabad	900	22500	25
Narnual	660	13345	20
Rewari	204	2835	14
Gurgaon	8951	35607	4
Bhiwani	1020	13000	13
Hissar	1070	11950	11
Fatehabad	880	13095	15
Sirsa	575	10000	17
Jind	1020	12200	12
Mewat	110	1500	14
Total	30324	418797	14

(Source: www.indiastat.com)

Himachal Pradesh (2005-06)

Bilaspur	90	2380	26
Chamba	17	255	15
Hamirpur	120	1960	16
Kangra	368	5612	15
Kinnaur	20	400	20
Kullu	570	17100	30
Lahaul&Spiti	33	495	15
Mandi	310	9920	32
Shimla	420	9240	22
Sirmour	116	2378	21
Solan	106	1908	18
Una	93	1455	16
Total	2263	53103	23

(Source: www.indiastat.com)

Odisha(2006-07)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Balasore	1146	16273	14
Bhadrak	1242	17636	14
Bolangir	1320	18744	14
Sonepur	831	11800	14
Cuttack	1952	27894	14
J.S. Pur	1290	18421	14
Jaipur	1400	19880	14
Kendrapara	1646	23373	14
Dhenkanal	1304	18517	14
Angul	1843	26226	14
Ganjam	3271	46448	14
Gajapati	739	10494	14
Keonjhar	4770	67973	14
Kalahandi	413	5865	14
Khariar	703	9983	14
Koraput	768	10906	14
Malkangiri	457	6489	14
N.W. Pur	633	8989	14
Rayagade	824	11701	14
Phulbani	3416	48746	14
Boudh	999	14186	14
Mayurbhanj	3213	45625	14
Puri	2325	33015	14
Khurda	1484	21073	14
Nayagarh	1168	16586	14
Sambalpur	1532	21908	14
Deogarh	172	2442	14
Bargarh	139	1988	14
Jharsuguda	457	6489	14
Sundargarh	3660	51972	14
Total	45117	641642	14

(Source: www.indiastat.com)

Punjab (2005-06)

Hoshiarpur	719	17204	24
Jalandhar	422	10458	25
Ludhiana	185	4529	24
Ferozepur	128	2935	23
Amritsar	583	11782	20
			Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Gurdaspur	560	13896	25
Kapurthala	518	13074	25
Bathinda	61	1491	24
Sangrur	337	7947	24
Patiala	613	15346	25
Ropar	220	5419	25
Faridkot	143	3356	23
Mansa	30	522	17
Fatehgarh Sahib	498	9725	20
Moga	215	5323	25
Mukatsar	5	117	23
Nzwanshehar	353	8276	23
Total	5590	131400	24

(Source: www.indiastat.com)

Tamil Nadu (2005-06)

Coimbatore	85	1700	20
Cuddalore	3	60	20
Dindigul	446	8920	20
Erode	5	100	20
Krishnagiri	14	280	20
Madurai	2	40	20
Namakkal	1	20	20
The Nilgiris	26	520	20
Theni	47	940	20
Thiruchirapalli	2	40	20
Total	631	12620	20

(Source: www.indiastat.com)

Uttar Pradesh

[Area (A) in ha; Production (P) in t; Yield (Y) in t/ha]

District/division	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Saharanpur	784	15867	20	849	17254	20	934	18994	20
Meerut	819	16540	20	946	19138	20	1042	21168	20
Agra	919	18587	20	968	19610	20	1065	21668	20
Aligarh	489	9883	20	469	9504	20	516	10502	20
Bareilly	412	8320	20	490	9924	20	539	10974	20
Muradabad	465	9411	20	631	12778	20	694	14118	20

Contd...

District/division	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Kanpur	447	9027	20	430	8703	20	473	9589	20
Allahabad	174	3520	20	234	4742	20	258	5233	20
Jhansi	32	646	20	42	848	20	46	931	20
Chitrakoot Dham	52	1049	20	53	1075	20	57	1179	21
Varanasi	327	6591	20	324	6542	20	356	7223	20
Mirzapur	30	602	20	33	664	20	37	747	20
Azamgarh	203	4092	20	204	4126	20	224	4536	20
Gorakhpur	841	16960	20	1014	20486	20	925	18506	20
Basti	182	3681	20	144	2919	20	200	4106	21
Shri Patan devi	270	5494	20	301	6135	20	292	5973	20
Lucknow	1023	20635	20	1032	20899	20	1126	23037	20
Faziabad	443	8951	20	411	8426	21	487	9996	21
Total U.P.	7912	159856	20	8575	173773	20	9271	188480	20

(Source: State Horticulture Mission, Government of Uttar Pradesh)

West Bengal (2005-06)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Darjeeling	0.759	26.11	34
Jalpaiguri	4.794	89.54	19
Coochbehar	4.792	150.16	31
North Dinajpur	2.63	42.46	16
South Dinajpur	2.126	58.5	28
Malda	3.254	96.13	30
Murshidabad	9.5	275.02	29
Nadia	7.13	214.7	30
North 24-Parganas	4.925	123.52	25
South 24-Parganas	4.65	95	20
Howrah	0.913	24.16	26
Hooghly	3.59	60.4	17
Burdwan	3.16	90	28
Birbhum	2	30.94	15
Bankura	5.25	139.66	27
Purulia	1.122	30.9	28
Midnapur (West)	3.448	89.9	26
Midnapur (East)	1.6	29.05	18
West Bengal	65.643	1666.15	25

(Source: www.indiastat.com)

Table 4.51: Monthly wholesale price index (WPI) of cauliflower in India {(Base year: 1981-82; 1993-94; 2004-05=100) (April 1990 to December 1992 and September 1993 to July 2012)}

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
1981-82=100												
1990				N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	322.5	181.4	116.7
1991	91.8	82.3	102.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	243.0	149.7	113.2
1992	103.5	127.5	189.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	353.9	252.7	214.9
1993									N.A.	517.0	262.5	152.3
1993-94=100												
1994	174.0	171.0	203.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	164.3	77.4	39.1
1995	56.3	78.8	114.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	202.2	105.1	70.8
1996	57.9	50.9	62.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	242.7	151.6	125.3
1997	95.6	94.9	115.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	219.3	73.6	98.7
1998	159.1	113.8	104.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	618.3	246.6	129
1999	111.9	76.6	67.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	275.0	135.4	70.1
2000	71.6	82.5	172	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	274.2	155.2	137.5
2001	144.3	110.3	114.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	333.7	185.3	88.4
2002	73.0	106.4	107.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	225.5	194.8	104.6
2003	163.9	134.8	167	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	351.1	191.8	201
2004	198.3	100.8	119.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	281.6	139.9	103.8
2006	101.0	94.5	95.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	166.3	131.5	94.5
2007	84.5	89.9	119.4	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	193.6	184.6	130.1
2008	122.4	102.6	101.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	193.6	224.1	153.0
2009	105.4	88.3	87.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	197.4	123.2	111.7
2010	110.3	123.6	148.9	N.A.	N.A.	N.A.	N.A.	N.A.				
2004-05=100												
2005				N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	147.1	143.4	90.9
2006	84.8	72.8	68.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	135.8	106.8	94.3
2007	83.1	80.9	83.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	123.7	122.0	85.8
2008	91.9	88.6	96.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	157.6	162.1	121.3
2009	120.7	95.4	96.0	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	147.1	137.1	134.4
2010	103.9	103.7	120.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	204.1	175.9	199.0
2011	210.5	119.1	110.6	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	163.3	162.3	139.1
2012	121.7	142.9	146.3	N.A.	N.A.	N.A.	N.A.	N.A.				

(Source: www.indiastat.com)

Table 4.52: Monthly average wholesale price (WP) and arrival (AR) of cauliflower during the period January to December, 2011
(Average wholesale price in ₹/q & arrival in tonnes)

Market	Jan		Feb		March		April		May		June		July		Aug		Sept		Oct		Nov		Dec		Total		
	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	
Abohar	1042	252	646	196	696	401	843	219	784	132	-	-	-	-	1287	162	1279	173	1878	243	1140	361	646	704	1024	2843	
Agra	340	167	276	176	369	147	594	98	-	-	-	-	-	-	2948	85	1894	156	1284	158	930	215	708	407	1038	1609	
Ahmedabad	503	3133	230	3083	557	2420	471	1418	934	1414	1115	1652	1035	1736	1043	1618	1356	1598	1486	1270	1168	2025	872	1915	898	23282	
Amritsar	675	936	377	1295	434	1207	418	1158	-	-	-	-	-	-	-	-	-	-	-	1919	583	519	999	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	
Bhopal	1143	816	416	844	1070	704	793	573	1500	443	-	-	-	-	1718	533	2225	416	2117	357	892	1422	648	855	1252	6963	
Bhubaneswar	941	1290	532	1190	1118	336	1318	159	1955	92	1920	86	2206	140	2188	178	2343	184	2197	179	1788	668	539	1285	1587	5787	
Chandigarh	683	1197	362	1347	717	1248	768	763	-	-	-	-	-	-	-	-	-	-	1955	575	838	1232	714	1520	862	7882	
Chennai	1664	3610	1257	3858	1051	6082	970	3680	1138	2800	1483	1600	1604	1339	1676	2099	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	3785	94	3522	67	2296	213	713	517	565	670	1608	3969	
Delhi	699	5506	232	6439	510	5693	659	2262	913	3616	1579	3481	1779	4146	2648	3112	2556	5064	2174	5194	552	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	768	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	1099	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	7960
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	499	2735	274	2790	456	1038	412	460	-	-	-	-	-	-	-	-	-	-	-	-	972	2252	344	6253	493	15528	
Mumbai	460	6166	313	3636	417	3006	427	2296	590	2342	879	3084	977	3286	929	2804	1119	2991	1079	2491	863	2490	496	2906	712	37498	
Nagpur	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	258	3700	377	2930	286	1885	749	1975	1125	1735	1312	941	1385	377	1341	377	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	852	1155	923	703	972	730	930	652	913	845	561	1252	742	11337	
Raipur	1170	282	498	450	753	167	836	100	1067	89	1544	42	1731	47	2088	45	2104	85	2036	88	1768	142	962	228	1380	1765	
Ranchi	1049	872	531	807	817	709	635	675	935	533	1255	274	1522	445	2347	457	1635	654	2391	606	1480	858	683	1058	1273	7948	
Shimla	1128	236	685	300	730	274	941	246	1197	165	2035	109	1714	177	2443	94	1860	116	-	-	-	1435	211	1123	302	1390	2230
Srinagar	1183	658	955	626	1033	494	1169	481	1348	557	1020	623	1375	451	1855	161	2050	214	1708	505	767	873	775	746	1270	6389	
Surat	1188	1560	678	1470	876	1350	683	1520	1430	1028	1998	734	2187	1265	2244	1328	1985	1342	2002	1360	2398	1270	1892	1600	1630	15827	
Thiruvananthapuram	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	

(Source: NHB, National Horticulture Database 2011)

Table 4.53: India's trade in cauliflower and broccoli

(Quantity in t; Value in '000 US\$; Unit value in US\$/t)

Year	Export			Import		
	Export Quantity	% share in world export	Export Value	Import Quantity	% share in world import	Import Value
1961	42	0.02	15	0	0.00	0
1962	14	0.01	5	0	0.00	0
1963	2	0.00	0	0	0.00	0
1964	0	0.00	0	0	0.00	0
1965	3	0.00	1	0	0.00	0
1966	0	0.00	0	0	0.00	0
1967	2	0.00	0	0	0.00	0
1968	1	0.00	0	0	0.00	0
1969	0	0.00	0	0	0.00	0
1970	0	0.00	0	0	0.00	0
1971	4	0.00	1	0	0.00	0
1972	0	0.00	0	0	0.00	0
1973	1	0.00	0	0	0.00	0
1974	0	0.00	0	0	0.00	0
1975	0	0.00	0	0	0.00	0
1976	0	0.00	0	0	0.00	0
1977	2	0.00	0	0	0.00	0
1978	3	0.00	2	0	0.00	0
1979	0	0.00	0	0	0.00	0
1980	0	0.00	0	0	0.00	0
1981	0	0.00	0	0	0.00	0
1982	1	0.00	0	0	0.00	0
1983	0	0.00	0	0	0.00	0
1984	0	0.00	0	0	0.00	0
1985	0	0.00	0	0	0.00	0

Contd...

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1986	0	0.00	0	0.00	0	0.00	0	0.00	0
1987	21	0.01	7	0.00	0	0.00	0	0.00	333
1988	9	0.00	3	0.00	0	0.00	0	0.00	333
1989	0	0.00	0	0.00	0	0.00	0	0.00	0
1990	0	0.00	0	0.00	0	0.00	0	0.00	0
1991	0	0.00	0	0.00	0	0.00	0	0.00	0
1992	4	0.00	1	0.00	0	0.00	0	0.00	250
1993	0	0.00	0	0.00	0	0.00	0	0.00	0
1994	25	0.00	5	0.00	0	0.00	0	0.00	200
1995	0	0.00	0	0.00	0	0.00	0	0.00	0
1996	12	0.00	5	0.00	0	0.00	0	0.00	417
1997	49	0.01	18	0.00	156	0.03	6	0.00	367
1998	20	0.00	9	0.00	52	0.01	1	0.00	450
1999	21	0.00	7	0.00	24	0.00	2	0.00	333
2000	2	0.00	1	0.00	61	0.01	5	0.00	500
2001	0	0.00	0	0.00	0	0.00	0	0.00	0
2002	0	0.00	0	0.00	0	0.00	0	0.00	0
2003	54	0.01	20	0.00	0	0.00	0	0.00	370
2004	94	0.01	37	0.01	0	0.00	0	0.00	394
2005	105	0.01	13	0.00	0	0.00	0	0.00	124
2006	45	0.00	8	0.00	0	0.00	0	0.00	178
2007	71	0.01	5	0.00	0	0.00	0	0.00	70
2008	285	0.03	37	0.00	0	0.00	0	0.00	130
2009	1663	0.17	188	0.02	0	0.00	0	0.00	113
2010	961	0.09	94	0.00	0	0.00	0	0.00	98

(Source: www.faostat.fao.org)

Table 4.54: Major destinations of cauliflower exports from India

(Quantity in t; Value in Lakhs ₹)

Country	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
UAE	24.2 (9)*	0.4 (3)	1197.5 (72)	72.7 (80)	519.7 (63)	20.0 (60)
Maldives	26.2 (9)	2.1 (13)	362.7 (22)	12.9 (15)	208.0 (25)	7.9 (24)
Saudi Arabia	103.9 (37)	4.7 (30)	33.0 (2)	2.1 (2)	78.1 (9)	3.5 (11)
Nepal	113.7 (40)	4.1 (26)	78.5 (4)	3.1 (3)	22.8 (3)	1.7 (5)
Oman	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.2 (0)	0.0 (0)
Mali	0.0 (0)	0.0 (0)	0.1 (0)	0.0 (0)	0.1 (0)	0.0 (0)
Mexico	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Bahrain	0.0 (0)	0.0 (0)	0.1 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Canada	16.0 (5)	4.3 (27)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Qatar	0.7 (0)	0.3 (1)	2.1 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Total	284.6 (100)	15.9 (100)	1674.1 (100)	90.8 (100)	829.8 (100)	33.2 (100)

* Figures in parentheses give Percentage to the total exports.

(Source: www.apeda.gov.in)

Table 4.55: Major destinations of cauliflower seeds export from India

(Quantity: Kg, Value: ₹)

Country	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
Bangladesh	151	106851	685	4624401	464	4165016
USA	0	0	0	0	21875	3785972
Pakistan	1099	4971666	7694	1967582	22653	3734719
Jordan	0	0	199	517455	40	505277
Afghanistan	0	0	0	0	300	427800
Singapore	0	0	50	360793	20	275552
Nepal	5	165382	97	934460	1560	234490
Kenya	0	0	0	0	15	161545
Peru	0	0	0	0	2000	74662
Maldives	0	0	40	1604	600	30185
Others	1148	789686	3547	3088269	20	41179
Total	2403	6033585	12312	11494564	49547	13436397

(Source: www.agriexchange.apeda.gov.in)

Okra

Table 4.56: Area, production and yield of okra

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	0.33	1.11	3.4	150	775	5
1962	0.33	1.13	3.4	158	790	5
1963	0.34	1.18	3.4	165	825	5
1964	0.35	1.21	3.5	170	845	5
1965	0.36	1.27	3.5	180	900	5
1966	0.37	1.33	3.6	185	940	5
1967	0.38	1.37	3.6	190	970	5
1968	0.38	1.41	3.7	198	1000	5
1969	0.40	1.48	3.7	210	1050	5
1970	0.42	1.60	3.9	218	1150	5
1971	0.42	1.65	3.9	225	1190	5
1972	0.45	1.82	4.1	234	1240	5
1973	0.45	1.91	4.2	244	1340	5
1974	0.48	2.05	4.3	250	1375	6
1975	0.47	2.03	4.3	260	1430	6
1976	0.48	2.04	4.3	265	1480	6
1977	0.49	2.11	4.3	275	1530	6
1978	0.53	2.23	4.2	280	1550	6
1979	0.55	2.35	4.3	290	1625	6
1980	0.56	2.51	4.5	295	1700	6
1981	0.55	2.50	4.5	300	1740	6
1982	0.57	2.60	4.6	305	1770	6
1983	0.58	2.71	4.7	315	1850	6
1984	0.61	2.87	4.7	320	1900	6
1985	0.64	2.93	4.6	330	1950	6
1986	0.68	3.08	4.6	340	2050	6
1987	0.69	3.17	4.6	346	2110	6
1988	0.68	3.18	4.7	353	2190	6
1989	0.71	3.62	5.1	360	2250	6
1990	0.78	3.59	4.6	365	2280	6
1991	0.80	3.64	4.6	370	2327	6
1992	0.86	3.82	4.4	375	2400	6
1993	0.86	3.86	4.5	376	2405	6
1994	0.85	4.58	5.4	300	3030	10
1995	1.07	5.52	5.2	420	3900	9
Contd...						

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1996	1.23	5.57	4.5	380	3800	10
1997	0.86	5.44	6.3	370	3700	10
1998	0.81	5.01	6.2	320	3210	10
1999	0.82	5.32	6.5	330	3380	10
2000	0.88	5.23	6.0	350	3420	10
2001	0.85	5.23	6.2	350	3340	10
2002	0.86	5.31	6.2	350	3320	9
2003	0.89	5.62	6.3	370	3530	10
2004	0.91	5.81	6.4	353	3631	10
2005	0.91	5.61	6.2	357	3512	10
2006	0.98	6.21	6.4	392	3975	10
2007	1.03	6.55	6.4	396	4070	10
2008	0.99	6.44	6.5	407	4179	10
2009	1.02	6.84	6.7	432	4528	10
2010	1.05	7.10	6.7	452	4803	11
2011	1.06	7.83	7.4	498	5784	12
ACGR for last ten years (2002-2011)	2.18	3.96	1.75	3.69	5.48	1.72

(Source: www.faostat.fao.org)

Table 4.57: Major okra producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total area under okra	Production (000't)	% share to total okra production	Productivity (t/ha)
India	498.0	43.4	5784.0	73.2	11.6
Nigeria	455.1	39.6	955.6	12.1	2.1
Sudan	21.5	1.9	256.0	3.2	11.9
Iraq	19.5	1.7	151.2	1.9	7.7
Ivoire	47.0	4.1	125.0	1.6	2.7
Pakistan	14.6	1.3	113.2	1.4	7.8
Egypt	6.9	0.6	86.2	1.1	12.5
Ghana	21.1	1.8	82.5	1.0	3.9
Saudi Arabia	4.2	0.4	55.8	0.7	13.3
Cameroon	15.5	1.4	43.0	0.5	2.8
Others	44.5	3.9	243.7	3.1	5.5
Total	1148.0	100.0	7896.3	100.0	6.9

(Source: NHB, National Horticulture Database 2011)

Table 4.58: Percent share of area production and productivity of okra in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
1987-88	114.1	5.5	530.5	2.5	4.6
1991-92	222	4.0	1886.5	3.2	8.5
1992-93	298.4	5.9	2737.8	4.3	9.2
1993-94	295.2	6.1	3029.4	4.6	10.3
1994-95	415.9	8.3	3988.8	5.9	9.6
1995-96	430.5	8.1	4031.8	5.6	9.4
1996-97	323.2	5.9	3040.1	4.0	9.4
1997-98	318.2	5.7	3210.9	4.4	10.1
1998-99	325.5	5.5	3380.3	3.8	10.1
1999-00	348.8	5.8	3419.1	3.8	9.8
2000-01	350.4	5.6	3351.8	3.6	9.6
2001-02	347.2	5.6	3324.7	3.8	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	5.2	4070	3.5	10.3
2007-08	407	5.2	4179	3.3	10.3
2008-09	432	5.4	4528	3.5	10.5
2009-10	452.5	5.7	4803.3	3.6	10.6
2010-11	498	5.9	5784	3.9	11.6

(Source: www.indiastat.com)

Table 4.59: State-wise area and production of okra in India from 2001-02 to 2010-11

[Area (A): 000'ha; Production (P): 000't]

States/UTs	2001-02		2002-03		2003-04		2004-05		2005-06	
	A	P	A	P	A	P	A	P	A	P
Andhra Pradesh	17.0	158.0	17.9	143.2	28.5	228.1	24.1	301.2	25.6	322.7
Assam	-	116.6	-	118.1	-	119.2	-	120.0	-	119.7
Bihar	57.4	801.2	57.8	866.5	58.0	928.7	56.2	730.2	56.2	714.1
Chhattisgarh	9.2	-	11.2	-	12.8	-	12.7	102.4	14.0	184.7
Gujarat	-	183.6	-	183.3	-	183.3	10.3	299.1	18.1	350.3
Haryana	10.6	-	8.8	70.3	7.1	85.6	7.5	100.0	7.7	93.7
Jharkhand	26.8	156.4	26.9	161.9	27.5	161.9	27.6	-	29.0	-
Karnataka	-	101.7	-	74.8	-	59.8	-	60.8	-	63.2
Madhya Pradesh	-	44.2	-	-	-	-	-	-	-	-
Maharashtra	-	157.5	-	161.5	6.4	169.2	8.3	160.5	8.8	182.7
Odisha	73.7	674.7	71.2	587.9	71.4	619.4	71.4	619.7	71.4	618.8
Uttar Pradesh	-	-	-	-	-	89.4	-	100	-	110.2
West Bengal	59.0	662.2	60.9	639.3	62.5	652.8	63.7	677.3	65.8	718.9
Others	23.7	288.5	25.1	237.9	43.0	495.9	30.0	241.2	28.9	194.9
Total India	277.4	3344.6	279.8	3244.7	317.2	3793.3	311.8	3512.4	325.5	3673.9

Table continues

States/UTs	2006-07		2007-08		2008-09		2009-10		2010-11	
	A	P	A	P	A	P	A	P	A	P
Andhra Pradesh	28.3	424	29.3	439.7	29.3	439.7	33.5	502.1	78.9	1184.2
Assam	-	0.0	-	-	10.3	129.2	10.9	149.7	11.1	147.8
Bihar	56.6	716.3	57.2	707.3	58.2	743.5	58.3	766.6	58.5	788.3
Chhattisgarh	15.2	194.8	23.0	202.4	23.5	207.6	23.9	217.3	25.2	249.1
Gujarat	21	366.1	41.5	365.9	44.9	407.1	32.0	466.2	54.5	592.5
Haryana	7.9	107.4	-	-	15.4	-	16.0	-	18.2	145.3
Jharkhand	25	318.1	24.5	343.2	29.8	417.2	29.0	406.0	30.0	421.7
Karnataka	-	65.1	-	-	8.1	-	8.6	-	-	-
Madhya Pradesh	-	53	-	-	10.1	-	10.8	-	-	-
Maharashtra	9.0	157.5	26.3	165.4	25.0	157.5	27.0	175.5	19.0	224.0
Odisha	71.5	620.9	71.5	621.1	73.3	639.9	73.9	651.8	70.0	651.8
Uttar Pradesh	-	112.9	9.2	102.1	10.1	112.2	11.0	131.2	-	-
West Bengal	68.0	762.4	71.5	815.3	72.6	830.9	73.1	839.3	74.0	862.1
Others	-	-	52.9	416.7	54.7	443.1	61.9	497.5	58.8	517.3
Total India	302.5	3898.5	406.9	4179.1	465.3	4527.9	469.9	4803.2	498.2	5784.1

(Source: www.indiastat.com)

Table 4.60: District-wise area production and yield of okra

Gujarat (2006-07)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Ahmedabad	400	2500	6
Amreli	680	4080	6
Banas Kantha	2800	30800	11
Bharuch	1890	15120	8
Narmada	550	3850	7
Bhavnagar	975	9263	10
The Dangs	350	2450	7
Gandhinagar	2270	17025	8
Jamnagar	1535	8289	5
Junagadh	3605	23973	7
Porbandar	510	3650	7
Kachchh	575	3735	6
Kheda	2200	17600	8
Anand	1128	8798	8
Mahesana	1840	16560	9
Patan	60	600	10
Panch Mahals	475	2525	5
Dohad	471	4239	9
Rajkot	850	6375	8
Sabar Kantha	1800	14400	8
Surat	6800	69360	10
Surendranagar	3481	26148	8
Baroda	4891	48910	10
Valsad	1375	12375	9
Navsari	1500	13500	9
Total	43011	366125	8

(Source: www.indiastat.com)

Himachal Pradesh (2005-06)

Bilaspur	170	2210	13
Chamba	62	558	9
Hamirpur	120	1800	15
Kangra	869	9570	11
Kinnaur	5	50	10
Kullu	40	360	9
Mandi	150	1500	10
Shimla	20	210	11
Sirmour	98	1078	11
Solan	124	1488	12
Una	70	835	12
Total	1728	19659	11

(Source: www.indiastat.com)



Odisha (2006-07)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Balasore	4835	42570	9
Bhadrak	2548	22187	9
Bolangir	2338	19917	9
Sonepur	1565	13687	9
Cuttack	2565	22582	9
J.S. Pur	2010	17524	9
Jaipur	5222	44478	9
Kendrapara	1935	16850	9
Dhenkanal	2688	23155	9
Angul	2819	24445	9
Ganjam	5049	44448	9
Gajapati	1804	15971	9
Keonjhar	5216	45726	9
Kalahandi	1586	12898	8
Khariar	255	2204	9
Koraput	2013	17587	9
Malkangiri	1470	12688	9
N.W. Pur	1345	11458	9
Rayagade	1219	10728	9
Phulbani	1579	13902	9
Boudh	1943	16544	9
Mayurbhanj	2928	25276	9
Puri	3792	32300	9
Khurda	2677	23567	9
Nayagarh	2912	25361	9
Sambalpur	1547	13472	9
Deogarh	213	1824	9
Bargarh	175	1838	11
Jharsuguda	235	1987	8
Sundargarh	5000	43685	9
Total	71483	620859	9

(Source: www.indiastat.com)

Rajasthan (2006-07)

Ajmer	265	335	1
Alwar	529	1484	3
Banswara	34	4	0
Baran	166	756	5
Barmer	35	36	1
Bharatpur	132	485	4
Bhilwara	162	276	2
Bikaner	3	3	1
Bundi	483	2142	4
Chittor	323	732	2
Churu	1	1	1
Dausa	98	112	1

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Dholpur	44	88	2
Dungarpur	48	72	2
Sriganganagar	146	2190	15
Hanumangarh	92	926	10
Jaipur	378	587	2
Jaisalmer	2	3	2
Jalore	90	136	2
Jhalawar	93	254	3
Jhunjhunu	43	167	4
Jodhpur	54	35	1
Karuali	74	149	2
Kota	151	1082	7
Nagaur	94	68	1
Pali	118	110	1
Rajsamand	61	178	3
S. Modhpur	24	48	2
Sikar	38	59	2
Sirohi	183	205	1
Tonk	116	482	4
Udaipur	203	222	1
Total	4283	13427	3

(Source: www.indiastat.com)

Uttar Pradesh

[Area (A) in ha; Production(P) in t; Yield (Y) in t/ha]

Districts/divisions	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Saharanpur	226	2674	12	276	3282	12	286	3476	12
Meerut	1096	13801	13	1281	16274	13	1331	17234	13
Agra	1152	13193	11	1367	15861	12	1420	16797	12
Aligarh	1151	13532	12	515	6061	12	535	6419	12
Bareilly	344	3967	12	436	5108	12	452	5408	12
Muradabad	157	1743	11	183	2039	11	190	2159	11
Kanpur	891	10448	12	905	10494	12	940	11114	12
Allahabad	461	5292	11	481	5841	12	500	6185	12
Jhansi	115	1426	12	421	5894	14	437	6242	14
Chitrakoot Dham	78	888	11	128	1419	11	133	1502	11
Varanasi	510	5528	11	543	6036	11	564	6392	11
Mirzapur	22	289	13	26	347	13	27	367	14
Azamgarh	192	1878	10	92	935	10	96	991	10
Gorakhpur	558	6042	11	668	7251	11	693	7679	11
Basti	75	704	9	79	755	10	82	799	10
Shri Patan devi	472	5201	11	555	6057	11	576	6414	11
Lucknow	2167	22096	10	2135	22003	10	2219	23300	11
Faziabad	614	6216	10	586	5998	10	609	6352	10
Total U.P.	10281	114918	11	10677	121655	11	11090	128830	12

(Source: State Horticulture Mission, Government of Uttar Pradesh)

Table 4.61: Monthly wholesale price index (WPI) of okra in India {(Base year: 1993-94; 2004-05=100) (April 1994 to July 2012)}

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
1993-94=100												
1994				134.0	82.8	109.3	114.3	121.0	93.1	106.0	140.5	176.8
1995	212.3	221.1	244.6	130.2	123.7	133.0	141.3	113.2	102.5	130.7	146.2	139.4
1996	165.9	175.3	168.4	126.6	85.4	106.2	137.5	114.5	88.9	116.8	130.1	260.9
1997	240.5	249.3	214.5	176.0	88.6	86.5	144.8	154.2	139.8	144.3	150.9	209.6
1998	256.1	251.8	189.9	170.7	133.4	158.1	159.0	151.7	140.3	193.7	279.9	394.4
1999	215.0	156.9	237.5	214.3	141.6	96.5	109.5	110.1	131.7	164.6	164.6	175.2
2000	199.2	241.6	288.5	192.0	149.8	170.2	144.2	145.1	139.5	179.2	201.4	210.0
2001	206.1	203.6	199.4	170.8	152.9	149.1	191.1	148.3	151.3	204.4	207.4	208.6
2002	204.2	215.0	209.1	162.8	134.4	132.5	148.4	169.3	162.3	189.9	183.2	187.5
2003	188.2	186.9	197.0	214.5	152.1	143.1	147.0	157.0	149.7	200.1	250.9	253.1
2004	248.2	242.3	178.3	132.6	123.7	142.0	164.0	160.2	173.4	222.3	266.1	281.6
2005	245.1	235.0	210.8	195.9	168.2	167.6	187.3	185.9	158.8	162.5	230.8	265.7
2006	280.5	273.2	208.6	166.4	157.0	202.5	209.8	212.6	224.8	263.4	286.3	276.3
2007	275.9	271.6	277.4	238.5	189.3	172.3	218.5	272.4	221.6	254.4	281.6	323.2
2008	314.5	210.5	258.7	243.4	204.1	203.3	237.8	251.7	268.4	337.5	356.2	333.7
2009	334.6	271.4	242.8	272.8	260.6	268.4	321.7	245.4	221.2	284.5	304.8	367.2
2010	376.3	354.5	356.0	316.6	257.8	262.9	250.1	220.8				
2004-05=100												
2005				101.5	84.9	80.8	91.8	95.1	83.4	88.0	115.6	123.9
2006	135.8	131.9	99.4	91.6	89.7	104.6	106.4	106.8	107.2	117.6	129.0	128.9
2007	128.9	133.5	138.7	131.2	104.3	97.0	111.5	135.8	111.2	121.2	133.5	144.0
2008	148.0	110.5	131.8	126.0	113.1	109.8	115.5	127.6	136.5	152.8	164.0	158.1
2009	159.8	129.2	113.7	132.9	134.1	134.8	151.9	117.9	104.5	128.8	145.2	173.8
2010	181.0	172.1	169.3	161.9	132.7	135.9	127.4	117.8	118.1	149.2	172.8	204.3
2011	283.4	276.4	217.7	183.0	189.9	182.9	176.2	208.5	218.6	236.6	263.3	253.9
2012	282.7	293.8	356.4	355.3	218.3	209.9	205.1					

(Source: www.indiastat.com)

Table 4.62: Monthly average wholesale price (WP) and arrival (AR) of okra during the period January to December, 2011

(Average wholesale price in ₹/q & Arrival in tonnes)

Market	Jan		Feb		March		April		May		June		July		Aug		Sept		Oct		Nov		Dec		Total			
	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR		
Abohar									1421	208	1091	330	1792	286	1504	312	1568	324	1900	263	2667	98				1704	1821	
Agra									1031	110	922	116	1170	115	1364	101	1484	104									1194	546
Ahmedabad			1719	786					1620	991	2468	961	2584	984	2373	949	2027	922	1248	141							1930	6683
Amritsar									2175	74	1189	67	925	86	1102	69	1256	78									1212	535
Bangalore	2371	232	2227	255	1519	267	1293	253	1564	303	1657	497	1457	278	1562	324	1796	387	1766	150	1671	153	1804	216	1725	3315		
Baraut									1850	5	1226	57	846	92	1219	80	2035	27									1406	321
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	3962		
Bhubaneswar	2828	37	2668	27	1859	74	736	197	726	234	1536	60	1608	76	1864	87	2752	42	2721	32	2798	31	1650	47	1978	944		
Chandigarh									1105	1041	831	1158	1119	1578	1234	1140	1625	954	1617	403							1255	6274
Chennai	3392	458	2796	383	1046	1465	888	903	1236	793	1590	1140	1565	694	982	1317	1001	1361	1113	737	1100	731	1624	722	1527	10704		
Dehradun									2527	33	973	161	774	141	968	166	1212	133	1247	85	1905	24	2865	15	1472	885		
Delhi	3038	1173	2583	2140	2563	4539	2188	3118	1312	2139	781	2706	1246	2661	1171	2065	1851	1673	1676	1935	2328	585	2608	1218	1945	25952		
Gangtok									3085	14	1950	21	934	28	929	26	1428	23	2144	23	2840	20	3131	11			2150	189
Guwahati									2187	230	657	370	828	344	1433	1523	2504	188	2538	151							1691	2806
Hyderabad	1542	1226	1179	1267	956	1460	679	781	1172	713	1515	1073	1300	1409	1053	1070	825	3828	863	1397	1070	1374	1520	3491	1139	19089		
Jaipur									1067	592	1171	616	1427	475	1268	502	1296	483	1357	381	1384	149					1281	3198
Jalandhar									2172	102	1691	490	1017	648	906	485	1043	259	1853	229	2340	167					1574	2380
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	1487		
Kanpur			4233	6	2168	115	1413	314	679	436	491	693	1635	135	1634	81	1546	94	1667	47							1718	1921
Karnal	3174	31	2378	23	2223	29	1780	60	939	161	882	250	1030	222	888	197	1423	185	1636	134	1314	39					1606	1331
Kolkata	3550	7			2585	364	1434	343	909	551	1092	329	2340	394	2846	229	2750	116	2460	192	2605	192	2350	34	2265	2751		
Lucknow									1756	257	958	609	734	425	1143	273	1279	253	1476	204	1475	166	1625	54			1305	2241
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		
Nagpur	2706	124	2245	84	1674	110	1261	91	1210	112	1582	149	2276	96	1686	105	1213	122	1590	128	2144	116	1550	110	1761	1347		
Nasik	2534	27	2992	23	2494	33	2275	24	1460	35	2006	44	2370	26	2493	24	2473	26	1738	25	2131	24	3125	35	2340	346		
Patna	2225	40			2181	195	1551	480	682	675	672	505	1061	380	1338	250	1263	550	1987	595	2242	550	2828	60	1639	4260		
Pimalgaon									630	100																	630	100
Pune	8066	373	2589	783	2536	801	1978	620	1318	831	2934	427	2540	656	2389	670	2173	625	1824	529	2553	600	2558	681	2371	7596		
Raipur	2530	56	2820	53	1938	79	1030	65	1215	60	1448	28	1581	33	1608	59	1988	63	2165	42	2445	25	2172	30	1911	593		
Ranchi					1703	454	1164	524	683	804	1013	749	1312	539	1486	497	1337	832	1459	554	1791	332	1941	21	1388	5306		
Shimla					3100	3			1613	138	1390	107	1407	220	1234	141	1448	113	1533	102	1450	42	2600	6	1752	872		
Srinagar									2800	3																	2800	3
Surat	2750	735	2202	874	2084	1085	1557	1095	1256	1540	2624	745	2748	859	2596	1210	2454	1305	2052	1358	3152	1800	2383	1368	2321	1396		
Trivendrum	1908	126	2014	100	1059	215	1052	150	1072	235	1104	194	1062	317	947	394	1320	315	1241	180	1636	1584	1222	224	1303	4054		

(Source: NHB, National Horticulture Database 2011)

Green Peas

Table 4.63: Area, production and yield of peas (green)

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	0.65	3.79	5.8	60	550	9
1962	0.67	3.94	5.9	62	550	9
1963	0.70	4.01	5.7	64	570	9
1964	0.71	4.09	5.7	65	600	9
1965	0.73	4.26	5.9	67	625	9
1966	0.74	4.30	5.8	69	655	9
1967	0.77	4.78	6.2	70	700	10
1968	0.78	4.75	6.1	73	730	10
1969	0.77	4.78	6.2	75	750	10
1970	0.76	4.72	6.2	77	780	10
1971	0.76	4.90	6.4	80	810	10
1972	0.77	4.86	6.3	83	840	10
1973	0.81	5.22	6.5	86	880	10
1974	0.83	5.80	7.0	90	930	10
1975	0.85	5.54	6.5	93	960	10
1976	0.82	4.98	6.1	95	1000	11
1977	0.82	5.52	6.7	97	1000	10
1978	0.82	5.33	6.5	100	1050	11
1979	0.82	5.62	6.9	102	1070	10
1980	0.80	5.39	6.7	107	1125	11
1981	0.81	5.66	7.0	110	1200	11
1982	0.81	5.98	7.4	111	1240	11
1983	0.79	5.48	6.9	115	1250	11
1984	0.83	6.18	7.4	117	1250	11
1985	0.85	6.27	7.4	120	1380	12
1986	0.81	5.88	7.2	125	1430	11
1987	0.85	5.99	7.0	130	1625	13
1988	0.88	6.12	7.0	135	1690	13
1989	0.91	6.94	7.7	140	1790	13
1990	0.97	7.49	7.7	145	1900	13
1991	1.00	7.81	7.8	147	2106	14
1992	1.00	8.22	8.2	143	2100	15
1993	0.98	8.04	8.2	148	2150	15
1994	1.13	9.14	8.1	180	2400	13
1995	1.23	9.75	7.9	220	2500	11
1996	1.22	9.52	7.8	200	2000	10

Contd...

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1997	1.32	10.33	7.8	220	2200	10
1998	1.43	11.07	7.7	270	2420	9
1999	1.51	11.76	7.8	280	2700	10
2000	1.57	12.52	8.0	270	2710	10
2001	1.63	12.67	7.8	320	3010	9
2002	1.67	11.99	7.2	300	2040	7
2003	1.76	12.55	7.1	305	2062	7
2004	1.74	12.75	7.3	285	1901	7
2005	1.86	13.26	7.1	276	1945	7
2006	1.89	14.23	7.5	286	2270	8
2007	2.00	14.79	7.4	297	2402	8
2008	2.05	15.02	7.3	313	2491	8
2009	2.14	15.77	7.4	348	2916	8
2010	2.19	15.97	7.3	365	3029	8
2011	2.24	16.97	7.6	370	3571	10
ACGR for last ten years (2002-2011)	3.43	3.89	0.44	2.79	6.68	3.78

(Source: www.faostat.fao.org)

Table 4.64: Major green pea producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total area under green pea	Production (000't)	% share to total green pea production	Productivity (t/ha)
China	1295.87	57.82	10274.32	60.53	7.9
India	370.00	16.51	3571.00	21.04	9.7
UK	37.28	1.66	424.72	2.50	11.4
USA	64.39	2.87	267.55	1.58	4.2
Egypt	22.65	1.01	225.69	1.33	10.0
France	33.28	1.48	262.94	1.55	7.9
Algeria	36.50	1.63	145.00	0.85	4.0
Others	381.35	17.01	1803.76	10.63	7.9
Total	2241.32	100.00	16974.98	100.00	7.6

Table 4.65: Percent share of area production and productivity of peas in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
1987-88	119.5	2.9	851.6	1.7	7.1
1991-92	177.7	2.9	1296	2.2	7.3
1992-93	194.1	3.8	1491.9	2.2	7.3
1993-94	181.6	3.7	1528.4	2.3	8.4
1994-95	218.2	4.4	2306.3	3.4	10.6
1995-96	224	4.2	2341.3	3.3	10.5
1996-97	254.4	4.6	2339.2	3.1	9.2
1997-98	272.5	4.9	2422	3.3	8.9
1998-99	282.5	4.8	2706.4	3.1	9.6
1999-00	272.6	4.5	2712	3	9.9
2000-01	319.3	5.1	3007.6	3.2	9.4
2001-02	303.3	4.9	2038.2	2.3	6.7
2002-03	305.2	5	2061.8	2.4	6.8
2003-04	285.2	4.5	1901.2	2	6.7
2004-05	276.3	4.1	1944.8	1.9	7
2005-06	286.1	4	2270	2.1	7.9
2006-07	297	3.9	2402	2.1	8.1
2007-08	313	4	2491	1.9	8
2008-09	348	4.4	2916	2.3	8.4
2009-10	364.9	4.6	3029.4	2.3	8.3
2010-11	370	4.4	3517	2.4	9.5

(Source: www.indiastat.com)

Table 4.66: State-wise area production and yield of peas in India from 2001-02 to 2010-11

States/UTs	2001-02						2002-03						2003-04						2004-05						2005-06						
	A		P		Y		A		P		Y		A		P		Y		A		P		Y		A		P		Y		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	
Andhra Pradesh	-	39.0	-	-	-	-	-	-	-	47.1	-	-	-	-	52.7	-	-	-	-	-	212.9	-	-	-	-	-	-	-	-	-	
Assam	-	-	-	-	98.5	-	-	-	-	154.0	-	-	-	-	162.1	-	-	-	-	-	177.0	-	-	-	-	-	-	-	-	-	
Bihar	-	86.3	-	-	86.9	-	-	-	-	95.6	-	-	-	-	100.5	-	-	-	-	-	103.3	6.2	-	-	-	-	-	-	-	-	
Chhattisgarh	-	55.8	-	-	55.8	-	0.3	-	-	69.8	11.7	7.6	37.3	10.0	7.2	80.9	9.3	11.1	84.9	7.1	60.9	7.1	-	-	-	-	-	-	-	-	
Haryana	6.5	57.3	8.8	5.9	50.3	8.6	7.2	69.8	9.7	8.7	80.9	9.3	11.1	84.9	7.1	60.9	7.1	60.9	7.1	60.9	7.1	-	-	-	-	-	-	-	-	-	
Himachal Pradesh	-	-	-	9.5	-	10.3	14.8	10.4	15.4	10.5	16.3	50.5	10.9	15.4	50.8	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	
Jammu & Kashmir	-	-	-	5.6	-	8.8	4.2	3.5	76.1	15.4	7.3	76.1	15.4	7.3	76.1	15.4	7.3	76.1	15.4	7.3	76.1	15.4	7.3	76.1	15.4	7.3	76.1	15.4	7.3	76.1	
Jharkhand	37.8	-	8.0	23.3	49.2	6	23.3	55.3	-	112.2	-	23.3	112.2	-	42.0	-	42.0	-	42.0	-	42.0	-	42.0	-	42.0	-	42.0	-	42.0	-	42.0
Karnataka	1.4	48.8	16.1	-	40.8	-	-	41.4	-	41.8	-	-	41.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Madhya Pradesh	3.5	302.4	11.1	-	139.6	-	4.3	139.6	11.0	4.8	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	
Maharashtra	-	22.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manipur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Odisha	5.7	-	8.6	4.7	-	8.6	4.8	4.8	8.6	4.8	8.6	4.8	8.6	4.8	8.6	4.8	8.6	4.8	8.6	4.8	8.6	4.8	8.6	4.8	8.6	4.8	8.6	4.8	8.6	4.8	
Punjab	14.4	-	6.0	14.5	-	6.0	16	6.0	6.0	16.7	6.0	17.2	6.0	17.2	6.0	17.2	6.0	17.2	6.0	17.2	6.0	17.2	6.0	17.2	6.0	17.2	6.0	17.2	6.0	17.2	
Rajasthan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uttar Pradesh	147.4	1179.2	8.0	159.7	1277.8	8.0	129.2	1033.2	8.0	129.2	1033.2	8.0	129.2	1033.2	8.0	129.2	1033.2	8.0	129.2	1033.2	8.0	129.2	1033.2	8.0	129.2	1033.2	8.0	129.2	1033.2	8.0	
Uttarakhand	11.5	-	4.9	12.4	-	4.5	-	-	-	6.2	-	6.0	9.6	6.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
West Bengal	19.4	-	4.8	19.8	-	5.2	24.6	-	4.7	25.0	-	4.9	21.7	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others	55.8	-	-	49.8	-	-	79.8	-	2.5	52.4	-	2.5	52.4	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Total India	303.4	1791.3	8.5	305.2	1798.9	7.3	308.5	1639.5	9.3	276.3	1696.8	8.4	337.4	2041.3	8.0	337.4	2041.3	8.0	337.4	2041.3	8.0	337.4	2041.3	8.0	337.4	2041.3	8.0	337.4	2041.3		

Table continues

States/UTs	2006-07			2007-08			2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Andhra Pradesh	0.1	230	35	2.1	4	35.7	0.1	4	-	0.1	20.4	-	2.3	81.2	35
Assam	0	203.4	-	-	0	-	19.4	11.9	-	-	13.2	-	-	13.7	-
Bihar	8.7	109	6.1	9	57.6	6.4	9.1	61.3	6.7	9.5	63.5	6.9	-	66.5	-
Chhattisgarh	9.7	65.5	5.7	9.9	44.8	4.5	10.3	46.2	-	10.6	96.6	9.2	10.8	99.7	9.2
Haryana	11.1	94.7	8.6	10	70.9	7.1	10.6	91.2	8.6	11	64.3	6.1	71.4	340.2	4.8
Himachal Pradesh	17.4	53.1	11.7	17.4	203.4	11.7	18.9	202.5	10.7	21.7	237.3	10.9	22.8	254.2	11.1
Jammu & Kashmir	2.5	55.5	-	2.3	25.2	-	4.4	73.5	16.7	7.6	69.9	9.2	6.8	212.5	31.3
Jharkhand	-	116.9	-	-	0	-	12.1	241.4	-	20.5	287	-	21.3	329.1	15.4
Karnataka	1	42.1	-	-	15.9	-	1.56	16.7	-	1.6	18.1	-	-	19	-
Madhya Pradesh	20.9	-	11	21.5	236.4	11	23.7	260.8	11	20	220	11	22.8	251.3	11
Maharashtra	-	14.1	-	-	27.7	-	6	26.4	-	7	32.2	-	-	32.2	-
Manipur	-	-	-	-	24.4	-	3.5	34	-	3.5	34	-	-	46.5	-
Odisha	4.8	23.9	-	-	42.4	-	5.3	46.5	-	5.1	45.2	-	-	45.4	-
Punjab	18.1	-	6	18.5	111	6	18.5	112	6.1	19.1	115.5	6.1	19.7	200.6	10.2
Rajasthan	11.5	-	-	-	12.6	-	13	20.6	-	13.5	24.4	-	-	40	-
Uttar Pradesh	150.6	1178	8	158.1	1398.6	8.8	159.4	1464.8	9.2	159	1465.8	9.2	159.2	1532.4	9.6
Uttarakhand	10	-	6.5	11.1	72.5	6.5	10.6	71.1	6.7	10.8	71	6.6	11.2	86.9	7.8
West Bengal	21.6	-	5.8	20.9	123.8	5.9	21.1	124.7	5.9	21.1	125.6	6	21.4	129.4	6
Others	-	-	8.8	43.7	-	4.4	59.8	-	3.6	-	-	3.9	-	-	-
Total India	288	2186.2	10.3	324.5	2471.2	9.8	407.36	2909.6	8.5	341.7	3004	7.7	369.7	3780.8	13.8

(Source: www.indiastat.com)

Table 4.67: District-wise area production and yield of peas

Assam (2005-06)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Barpeta	1891	1513	0.8
Bongaigaon	245	182	0.74
Cachar	544	324	0.6
Darrang	625	444	0.71
Dhemaji	283	179	0.63
Dhubri	322	247	0.77
Dibrugarh	194	66	0.34
Goalpara	226	118	0.52
Golaghat	1059	920	0.87
Hailakandi	320	182	0.57
Jorhat	1164	498	0.43
Kamrup	1148	945	0.82
Karbi-Anglong	522	323	0.62
Karimganj	70	23	0.33
Kokrajhar	389	209	0.54
Lakhimpur	432	180	0.42
Morigon	460	460	1
N C Hills	129	62	0.48
Nagaon	1698	550	0.32
Nalbari	1029	803	0.78
Sibsagar	225	129	0.57
Sonitpur	1866	1022	0.55
Tinsukia	548	224	0.41
Total	15389	9603	0.60

(Source: www.indiastat.com)

Bihar (2004-05)

Arhasia	772	679	0.88
Arval	1142	1005	0.88
Aurangabad	1269	1117	0.88
Baghalpur	1460	1285	0.88
Banka	82	72	0.88
Begusarai	948	834	0.88
Bhabha	729	703	0.96
Bhojpur	1397	1203	0.86
Buxar	902	777	0.86
Champaran (East)	142	125	0.88
Champaran (West)	1437	1265	0.88
Darbhanga	387	406	1.05
Gaya	342	301	0.88
Gopalganj	662	583	0.88

Contd...

Districts	Area (ha)	Production (t)	Yield (t/ha)
Jahanabad	179	158	0.88
Katihar	332	292	0.88
Khagaria	1276	1123	0.88
Kishanganj	15	13	0.87
Lakhisaria	294	259	0.88
Madhubani	56	59	1.05
Madhupura	1053	927	0.88
Monghyr	637	561	0.88
Muzaffarpur	162	143	0.88
Nalanda	191	164	0.86
Nawadha	301	265	0.88
Patna	2262	1948	0.86
Purnia	491	432	0.88
Rohtas	981	769	0.78
Saharsa	613	539	0.88
Samastipur	260	273	1.05
Saran	354	312	0.88
Sitamarhi	218	192	0.88
Siwan	968	852	0.88
Supaul	383	337	0.88
Vaishali	70	62	0.89
Zamui	57	50	0.88
Total	22824	20085	0.89

(Source: www.indiastat.com)

Chhattisgarh (2004-05)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Bastar	404	123	0.3
Bilaspur	947	285	0.3
Dhamtari	1991	648	0.33
Durg	1036	241	0.23
Janjgir-Champa	333	110	0.33
Jashpur	1044	359	0.34
Kanker	1888	532	0.28
Kawardha (Kabirdham)	256	62	0.24
Korba	174	44	0.25
Koriya	342	116	0.34
Mahasmond	221	69	0.31
Raigarh	1580	514	0.33
Raipur	2643	774	0.29
Raj Nandgaon	210	60	0.29
Sarguja	3289	1379	0.42
Total	16358	5316	0.31

(Source: www.indiastat.com)

Haryana (2006-07)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Panchkula	55	750	14
Ambala	1155	11010	10
Yamunanagar	844	7210	9
Kurukshetra	1130	10680	9
Kaithal	363	3275	9
Karnal	1075	10105	9
Panipat	645	180	0
Sonipat	1810	10570	6
Rohtak	250	1450	6
Jhajjar	500	6870	14
Faridabad	1365	23650	17
Narnaul	565	5380	10
Rewari	100	400	4
Gurgaon	485	4678	10
Bhiwani	185	1000	5
Hissar	150	250	2
Fatehabad	295	2540	9
Sirsa	250	2400	10
Jind	670	9120	14
Mewat	200	600	3
Total	12092	112118	9

(Source: www.indiastat.com)

Jharkhand (2006-07)

Ranchi	2.514	2388	0.95
Gumla	0.78	1139	1.50
Simdega	0.49	329	0.67
Lohardaga	1.185	1475	1.24
East Singhbhum	0.646	775	1.20
West Singhbhum	0.43	230	0.53
Saraikela	0.431	373	0.86
Palamau	1.527	783	0.51
Garhwa	1.717	1374	0.80
Latehar	0.499	357	0.71
Hazaribagh	1.828	2195	1.20
Chatra	1.286	1573	1.22
Koderma	0.88	976	1.10
Giridih	0.755	871	1.15
Dhanbad	0.565	600	1.08
Bokaro	0.325	388	1.19
Dumka	0.344	345	1.00
Jamtara	0.9	879	0.97
Deoghar	0.475	341	0.71
Godda	1.025	1045	0.89
Sahebganj	0.948	750	0.79
Pakur	0.5	600	1.20
Total	20.05	19786	0.98

(Source: www.indiastat.com)

Punjab (2005-06)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Hoshiarpur	4980	30189	6
Jalandhar	1214	7432	6
Ludhiana	269	1621	6
Ferozepur	132	782	6
Amritsar	5654	34145	6
Gurdaspur	270	1589	6
Kapurthala	398	2418	6
Bathinda	59	333	6
Sangrur	278	1658	6
Patiala	1664	9952	6
Ropar	58	344	6
Faridkot	9	54	6
Mansa	33	197	6
Fatehgarh Sahib	192	1013	5
Moga	28	148	5
Mukatsar	82	455	6
Nawashehar	1890	11000	6
Total	17210	103330	6

(Source: www.indiastat.com)

Uttar Pradesh

(Area in ha; Production in t; yield in t/ha)

Districts/divisions	2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y
Saharanpur	119	987	8	134	1124	8	136	1157	9
Meerut	1458	12512	9	1456	13700	9	1483	15233	10
Agra	1414	19167	14	1724	23368	14	1758	24318	14
Aligarh	4618	63704	14	5293	73994	14	5393	77176	14
Bareilly	1483	13321	9	2166	19315	9	2207	20146	9
Muradabad	669	5711	9	578	5040	9	589	5257	9
Kanpur	4734	55888	12	4717	55797	12	4807	58196	12
Allahabad	6700	50230	7	6909	54090	8	7040	56417	8
Jhansi	68042	714149	10	67940	744857	11	69232	776886	11
Chitrakoot Dham	17861	121277	7	15443	110792	7	15533	115555	7
Varanasi	5491	42464	8	5088	40740	8	5184	42491	8
Mirzapur	5014	40293	8	4981	40534	8	5076	42277	8
Azamgarh	4983	36735	7	6932	54304	8	7063	56639	8
Gorakhpur	3681	32011	9	3409	30173	9	3474	31470	9
Basti	7293	39783	5	7341	41294	6	7480	43070	6
Shri Patan devi	4233	37067	9	3643	32288	9	3712	33677	9
Lucknow	6086	42915	7	6310	45248	7	6429	47194	7
Faziabad	12118	77879	6	12366	81717	7	12601	85231	7
Total U.P.	155997	1406093	9	156430	1468375	9	159197	1532390	10

(Source: State Horticulture Mission, Government of Uttar Pradesh)

Uttarakhand (2005-06)

Districts	Area (ha)	Production (t)	Yield (t/ha)
Chamoli	36	22	0.60
Dehradun	377	301	0.80
Dehradun (Plain)	486	389	0.80
Dehradun (Total)	863	690	0.80
Haridwar	70	48	0.67
Pauri Garhwal	103	57	0.55
Rudraprayag	2	1	0.70
Tehri Garhwal	458	274	0.60
Uttar Kashi	581	263	0.45
Almora	64	42	0.65
Bageshwar	57	39	0.70
Champawat	60	40	0.65
Nainital (Hill)	70	46	0.65
Nainital (Plain)	70	54	0.78
Nainital (Total)	140	100	0.71
Pithoragarh	68	37	0.55
U.S Nagar	2259	1637	0.72
Uttaranchal (Hill)	1876	1122	0.59
Uttaranchal (Plain)	2885	2128	0.73
Uttarakhand	4761	3250	0.68

(Source: www.indiastat.com)

West Bengal (2005-06)

Darjeeling	820	668	0.81
Jalpaiguri	213	173	0.81
Coochbehar	6	5	0.81
Uttar Dinajpur	1	1	1.00
Dakshin Dinajpur	1	1	1.00
Malda	480	391	0.81
Murshidabad	3846	3175	0.82
Nadia	4339	3603	0.83
North 24 Parganas	1109	882	0.79
South 24 Parganas	625	497	0.79
Howrah	38	30	0.79
Hooghly	1284	1626	1.26
Burdwan	15	3	0.22
Birbhum	269	341	1.26
Bankura	56	71	1.26
Purulia	3	4	1.26
Paschim Medinipur	26	33	1.26
West Bengal	13131	11504	0.87

(Source: www.indiastat.com)

Table 4.68: Monthly whole sale price index (WPI) of peas (green) in India {Base year: 1981-82; 1993-94; 2004-05=100}

(April 1990 to December 1992 and September 1993 to July 2012)

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
1981-82=100												
1990				N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	256.9	241.3	184.3
1991	146.7	127.9	149.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	309.6	299.4	186.6
1992	150.2	145.2	171.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	306.5	329.3	221.3
1993									N.A.	323.6	333.0	268.4
1993-94=100												
1994	228.8	199.5	199.1	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	170.3	150.2	79.4
1995	71.5	64.3	73.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	146.7	152.5	99.0
1996	72.1	59.4	86.6	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	235.9	224.0	205.2
1997	201.9	185.3	176.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	226.6	205.5	181.8
1998	135.9	122.6	107.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	227.8	184.1	151.5
1999	130.3	111.3	117.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	187.8	149.3	107.4
2000	100.0	82.8	88.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	184.7	156.4	122.4
2001	100.0	92.5	93.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	193.0	231.4	144.2
2002	92.7	68.1	100.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	202.7	200.7	134.8
2003	98.5	94.9	97.4	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	230.7	228.8	123.7
2004	90.2	94.3	103.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	272.9	235.9	111.9
2006	146.4	144.5	132.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	190.7	212.6	140.3
2007	87.7	122.7	147.5	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	212.3	185.9
2008	163.5	160.6	160.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	212.1	204.7	179.8
2009	160.4	140.8	139.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	196.6	299.5	234.2
2010	176.4	160.7	147.4	N.A.	N.A.	N.A.	N.A.	N.A.				
2004-05=100												
2005				N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	145.8	142.0	97.1
2006	87.4	85.8	92.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	130.6	137.4	94.0
2007	68.2	73.5	92.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	172.2	162.5	130.7
2008	94.7	93.9	100.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	179.2	145.5	121.2
2009	109.2	104.4	110.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	150.4	177.3	160.6
2010	107.0	84.8	85.9	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	246.3	183.7	136.2
2011	114.0	89.6	99.4	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	312.7	245.4	141.0
2012	106.9	113.3	128.9	N.A.	N.A.	N.A.	N.A.	N.A.				

(Source: www.indiastat.com)

Table 4.69: Monthly average wholesale price (WP) and arrival (AR) of peas during the period January to December, 2011

(Average wholesale price in ₹/q and Arrival in t)

Market	Jan		Feb		March		April		May		June		July		Aug		Sept		Oct		Nov		Dec		Total			
	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR	WP	AR		
Abohar	1463	91	1246	56	1268	221	1750	75													1940	41	1171	424	1473	906		
Ahmedabad	1331	1568	983	2668	1041	1144	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	5119
Bangalore	2292	1163	1794	1548	2415	1003	4230	364	5893	556	7060	473	4772	115	2750	193	3404	145	5500	65	6898	96	3393	228	4183	5969		
Baraut	1790	81	1376	82	1072	129	1170	12															2158	60	1513	364		
Bhopal	1296	846	961	720	1262	672	2382	22													3908	6	1308	888	1852	3154		
Bhubaneswar	1843	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	7687		
Dehradun	842	408	841	241	831	317	1573	376	1694	108	2154	41	4210	21	5215	26	5468	17			2797	50	1211	383	2439	1988		
Delhi	1481	7692	1129	6689	1038	5142	2053	2262	2315	3507	3904	1629	5054	1669	5226	1747	7804	614	7511	639	3980	2637	1354	8574	3570	42801		
Gangatok	3160	31	2146	29	1691	30	2990	17	3378	22	3740	19	4424	14									5365	21	3361	181		
Guwahati	1908	553	933	614	965	434	2250	111																		1514	1712	
Hyderabad																												
Jaipur	1189	3155	673	1707	553	1491	1014	158													3064	383	1208	1750	1283	8644		
Jalandhar	1692	2044	1357	1258	963	1271	1880	341	2609	226	2845	159														1889	5299	
Jammu	1513	693	900	858	735	609	1648	197	900	327	1754	276	3185	181	3127	93	2686	54	4620	32	4113	236	1017	852	2183	4408		
Kanpur	967	3432	611	2876	852	189																				810	6497	
Kolkata	1661	3103	923	3178	1478	1013	2398	300	3530	40											6441	361	2825	1773	2750	9768		
Lucknow	1351	2298	723	3083	1256	779	1910	111																		1320	10518	
Mumbai	1658	9303	1117	11915	1400	9090	2986	2522	3048	2929	4075	2011	3908	3006	3371	3273	5477	1580	8458	1055	4725	3028	1744	10838	3497	60550		
Nagpur	1726	134	1074	151	1263	68																				1354	353	
Patna	1435	1135	853	945	1132	475	1013	40															1569	135	1200	2730		
Pune	2303	1680	1969	938	2443	516	2900	15									1200	1165			950	760	1950	135	1962	5209		
Raipur	1509	425	1308	526	1319	328	2732	34													3880	56	1716	277	2077	1646		
Ranchi	1086	829	530	856	738	705															2580	84	1557	3348	1298	5822		
Shimla	1697	147	1542	225	1048	148	1407	258	1910	496	2142	345	2465	270	3396	113	4002	93	7369	96	5338	155	2183	335	2874	2681		
Srinagar	2146	1007	1464	1230	1465	940	2048	620	1382	1333	1241	885	2740	55							2438	195	1369	1590	1810	7855		
Surat	1734	5725	1139	1235	1452	739	2847	112															1665	1047	1772	8858		

(Source: NHB, National Horticulture Database 2011)

Table 4.70: India's trade in peas (green)

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export			Import			
	Export Quantity	% share in world export	Export Value	Import Quantity	% share in world import	Import Value	Unit Value
1987	128	0.29	76	17814	29.60	5629	316
1988	131	0.19	86	18703	23.33	6362	340
1989	28	0.03	23	2581	3.66	1091	423
1990	0	0.00	0	9600	12.19	3120	325
1991	0	0.00	0	983	1.08	334	340
1992	12	0.02	3	2457	2.86	937	381
1993	7	0.01	2	11672	9.82	3643	312
1994	317	0.34	218	297	0.31	93	313
1995	556	0.45	382	62	0.05	29	468
1996	136	0.13	98	0	0.00	0	0
1997	135	0.12	53	942	0.73	380	403
1998	73	0.06	39	172	0.10	40	233
1999	1128	0.94	478	4498	2.30	921	205
2000	723	0.65	338	6316	2.97	1462	231
2001	533	0.43	346	35656	14.18	7612	213
2002	2564	1.63	1575	19993	6.76	4773	239
2003	2781	1.54	1832	5023	2.13	1251	249
2004	2001	1.34	904	3	0.00	2	667
2005	1109	0.64	639	0	0.00	0	0
2006	1184	0.79	603	0	0.00	0	0
2007	815	0.54	656	0	0.00	0	0
2008	2519	1.50	1840	0	0.00	0	0
2009	1271	0.58	731	194	0.08	86	443
2010	687	0.34	597	0	0.00	0	0

(Source: www.faostat.fao.org)

Table 4.71: Major destinations of pea exports from India

(Quantity in t, Value in Lakhs ₹)

Country	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
Saudi Arabia	1479.9 (59)*	549.1 (69)	441.0 (35)	214.1 (61)	498.1 (50)	206.4 (78)
UAE	341.8 (14)	109.2 (14)	155.6 (12)	53.1 (15)	118.3 (12)	32.8 (13)
Nepal	168.5 (7)	13.4 (2)	166.5 (13)	67.1 (19)	367.1 (36)	21.5 (9)
Qatar	10.3 (0)	2.5 (0)	0.0 (0)	0.0 (0)	3.0 (0)	1.2 (0)
United States	294.4 (12)	96.0 (12)	0.0 (0)	0.0 (0)	0.9 (0)	0.8 (0)
Oman	49.9 (2)	4.0 (1)	4.7 (0)	0.3 (0)	16.2 (2)	0.7 (0)
UK	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	1.1 (0)	0.3 (0)
Indonesia	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)	0.0 (0)
Others	174.6 (6)	21.1 (2)	502.9 (40)	19.0 (5)	0.0 (0)	0.0 (0)
Total	2519.4 (100)	795.4 (100)	1270.7 (100)	353.7 (100)	1004.6 (100)	263.7 (100)

* Figures in parenthesis give percentage to the total exports.

(Source: www.apeda.gov.in)

Table 4.72: Major destinations of pea seeds export from India

(Quantity: Kg; Value: ₹)

Country	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
Pakistan	24000	1157722	0	0	376515	16371163
Nepal	0	0	0	0	55795	3750809
Taiwan	0	0	0	0	29	1354
USA	0	0	3208	159104	0	0
China	0	0	900	82414	0	0
Italy	0	0	25193	3147884	0	0
Ireland	0	0	500	24372	0	0
Japan	4610	456409	0	0	0	0
Malaysia	0	0	200	65442	0	0
Kuwait	200	31880	6000	237379	0	0
Others	38	900	2815	158720	0	0
Total	28848	1646911	38816	3875315	432339	20123326

(Source: www.agriexchange.apeda.gov.in)

Beans

Table 4.73: Area, production and yield of beans (green)

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	0.51	2.70	5.3	80	185	2
1962	0.50	2.64	5.2	81	186	2
1963	0.52	2.71	5.2	83	190	2
1964	0.52	2.81	5.4	85	200	2
1965	0.54	2.79	5.2	88	210	2
1966	0.55	2.89	5.3	87	205	2
1967	0.54	2.93	5.4	90	210	2
1968	0.55	2.94	5.3	94	220	2
1969	0.56	3.04	5.4	96	230	2
1970	0.57	3.15	5.5	100	240	2
1971	0.59	3.22	5.5	105	250	2
1972	0.60	3.32	5.6	106	260	2
1973	0.60	3.38	5.6	107	270	3
1974	0.61	3.52	5.7	110	277	3
1975	0.62	3.52	5.7	112	280	3
1976	0.61	3.43	5.6	114	283	2
1977	0.63	3.72	5.9	115	285	2
1978	0.64	3.75	5.9	118	295	3
1979	0.64	3.92	6.1	121	305	3
1980	0.63	3.95	6.3	125	320	3
1981	0.69	4.18	6.1	125	330	3
1982	0.70	4.42	6.3	130	350	3
1983	0.71	4.48	6.3	132	355	3
1984	0.74	4.84	6.5	133	360	3
1985	0.74	5.00	6.8	134	365	3
1986	0.77	4.98	6.5	135	370	3
1987	0.84	5.22	6.2	136	375	3
1988	0.87	5.47	6.3	138	385	3
1989	0.91	5.88	6.4	142	390	3
1990	0.95	6.03	6.4	135	398	3
1991	0.98	6.38	6.5	143	374	3
1992	1.05	6.87	6.5	139	380	3
1993	0.99	6.97	7.0	144	385	3
1994	1.03	7.06	6.9	145	388	3
1995	1.31	8.68	6.6	191	390	2

Contd...

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1996	1.28	8.91	7.0	148	400	3
1997	1.29	8.94	6.9	138	319	2
1998	1.31	9.24	7.1	150	410	3
1999	1.33	9.73	7.3	157	460	3
2000	1.38	9.95	7.2	157	420	3
2001	1.45	11.08	7.7	173	461	3
2002	1.45	11.74	8.1	165	403	2
2003	1.50	12.97	8.6	207	462	2
2004	1.42	13.76	9.7	156	383	2
2005	1.42	15.37	10.8	168	417	2
2006	1.46	17.21	11.8	183	478	3
2007	1.46	18.02	12.3	189	514	3
2008	1.47	19.01	12.9	196	536	3
2009	1.47	19.13	13.0	199	541	3
2010	1.52	19.83	13.0	208	582	3
2011	1.54	20.39	13.2	218	618	3
ACGR for last ten years (2002-2011)	0.52	6.41	5.85	2.56	4.94	2.31

(Source:www.faostat.fao.org)

Table 4.74: Major beans producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total world area under beans	Production (000't) in the world	% share to total bean production	Productivity (t/ha)
China	586.2	39.2	15213.7	76.7	26.0
Indonesia	144.4	9.7	942.4	4.8	6.5
Turkey	70.0	4.7	588.0	3.0	8.4
India	207.5	13.9	582.2	2.9	2.8
Thailand	152.0	10.2	304.7	1.5	2.0
Egypt	26.3	1.8	270.7	1.4	10.3
Morocco	8.4	0.6	201.9	1.0	24.1
Italy	20.6	1.4	183.0	0.9	8.9
Spain	12.3	0.8	174.6	0.9	14.2
Belgium	8.1	0.5	89.0	0.4	11.0
others	259.7	17.4	1284.1	6.5	11.4
World	1495.4	100.0	19834.3	100.0	13.3

(Source: www.faostat.fao.org)

Table 4.75: Percent share of area production and productivity of beans in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
1991	143	2.94	374	0.75	2.6
1992	139	3.15	380	0.75	2.7
1993	144	3.06	385	0.73	2.7
1994	145	3.26	388	0.72	2.7
1995	191	3.40	390	0.69	2.0
1996	148	2.93	400	0.70	2.7
1997	138	2.79	319	0.59	2.3
1998	150	2.82	410	0.64	2.7
1999	157	2.87	460	0.65	2.9
2000	157	2.87	420	0.58	2.7
2001	173	2.87	461	0.58	2.7
2002	165	2.86	403	0.58	2.4
2003	207	2.88	462	0.58	2.2
2004	156	2.89	383	0.58	2.5
2005	168	2.88	417	0.58	2.5
2006	183	2.89	478	0.58	2.6
2007	189	2.88	514	0.58	2.7
2008	196	2.88	536	0.58	2.7
2009	199	2.95	541	0.60	2.7
2010	208	2.87	582	0.58	2.8
2011	218	2.88	618	0.58	2.8

(Source: www.faostat.fao.org)

*Source for total vegetable area and production NHB, National Horticultural Database, 2011

Table 4.76: India's trade in beans (green)

(Quantity in t; Value in '000 US\$; Unit value in US\$/t)

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1987	62	0.06	38	0.05	832	0.61	299	0.20	359
1988	5	0.00	2	0.00	1659	1.11	592	0.38	357
1989	1	0.00	1	0.00	0	0.00	0	0.00	0
1990	0	0.00	0	0.00	287	0.18	112	0.06	390
1991	0	0.00	0	0.00	0	0.00	0	0.00	0
1992	13	0.01	4	0.00	222	0.13	98	0.04	441
1993	1	0.00	1	0.00	0	0.00	0	0.00	0
1994	0	0.00	0	0.00	0	0.00	0	0.00	0
1995	69	0.04	46	0.02	57	0.03	34	0.01	596
1996	1	0.00	1	0.00	465	0.22	81	0.03	174
1997	121	0.06	73	0.04	100	0.04	37	0.01	370
1998	50	0.02	13	0.01	1	0.00	0	0.00	0
1999	21	0.01	9	0.00	0	0.00	0	0.00	0
2000	200	0.08	83	0.04	0	0.00	0	0.00	0
2001	11	0.00	3	0.00	24	0.01	10	0.00	417
2002	59	0.03	20	0.01	0	0.00	0	0.00	0
2003	531	0.20	254	0.08	0	0.00	0	0.00	0
2004	1248	0.40	318	0.09	0	0.00	0	0.00	0
2005	1168	0.33	353	0.09	0	0.00	0	0.00	0
2006	1661	0.54	1428	0.37	0	0.00	0	0.00	0
2007	482	0.13	340	0.08	1	0.00	0	0.00	0
2008	69	0.02	54	0.01	2	0.00	1	0.00	500
2009	117	0.04	60	0.01	1	0.00	0	0.00	0
2010	107	0.03	53	0.01	0	0.00	0	0.00	0

(Source: www.faostat.fao.org)

Table 4.77: India's trade in leguminous vegetables

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export			Import			
	Export Quantity	% share in world export	Export Value	Import Quantity	% share in world import	Import Value	Unit Value
1987	225	0.88	88	1,506.00	9.88	546	363
1988	26	0.12	10	1,122.00	5.82	596	531
1989	12	0.05	4	0	0.00	0	0
1990	15	0.06	10	127	0.82	56	441
1991	37	0.15	27	0	0.00	0	0
1992	0	0.00	0	0	0.00	0	0
1993	0	0.00	0	0	0.00	0	0
1994	27	0.04	10	0	0.00	0	0
1995	0	0.00	0	0	0.00	0	0
1996	0	0.00	0	0	0.00	0	0
1997	0	0.00	0	0	0.00	0	0
1998	8	0.02	7	0	0.00	0	0
1999	6	0.01	4	0	0.00	0	0
2000	24	0.03	14	175	0.40	68	389
2001	23	0.03	38	0	0.00	0	0
2002	8	0.01	8	0	0.00	0	0
2003	62	0.09	59	0	0.00	0	0
2004	98	0.14	59	0	0.00	0	0
2005	234	0.26	106	0	0.00	0	0
2006	46	0.04	52	0	0.00	0	0
2007	45	0.06	9	0	0.00	0	0
2008	156	0.23	48	0	0.00	0	0
2009	1664	1.92	1013	0	0.00	0	0
2010	1326	1.23	1026	0	0.00	0	0

(Source: www.faostat.fao.org)

Carrot & turnips

Table 4.78: Area, production and yield of carrots and turnips

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	0.36	5.84	16.1	8	64	8
1962	0.38	6.09	16.1	9	70	8
1963	0.39	6.72	17.0	9	74	8
1964	0.39	6.75	17.1	10	81	9
1965	0.39	6.66	17.1	10	85	9
1966	0.40	7.14	18.1	10	92	9
1967	0.40	7.34	18.5	11	96	9
1968	0.41	7.51	18.5	11	100	9
1969	0.42	7.80	18.6	12	110	9
1970	0.43	7.85	18.4	12	112	9
1971	0.42	7.90	18.7	12	120	10
1972	0.43	7.96	18.5	13	124	10
1973	0.45	8.65	19.3	13	129	10
1974	0.46	8.76	19.1	14	140	10
1975	0.47	8.59	18.3	14	143	10
1976	0.47	8.61	18.2	15	160	11
1977	0.49	9.86	20.3	15	165	11
1978	0.50	10.23	20.4	16	170	11
1979	0.51	9.96	19.7	16	184	12
1980	0.53	10.44	19.8	16	186	11
1981	0.55	10.76	19.6	16	188	12
1982	0.55	11.24	20.6	17	200	12
1983	0.54	10.97	20.2	17	204	12
1984	0.57	12.48	21.8	18	227	13
1985	0.57	12.07	21.3	18	235	13
1986	0.59	12.60	21.5	19	250	14
1987	0.60	13.12	21.8	19	260	14
1988	0.62	13.27	21.4	20	272	14
1989	0.64	13.57	21.3	20	275	14
1990	0.62	13.66	21.9	20	280	14
1991	0.66	13.97	21.1	20	287	14
1992	0.64	14.20	22.3	21	293	14
1993	0.67	15.59	23.2	21	295	14
1994	0.72	15.87	22.1	22	305	14
1995	0.75	16.67	22.1	21	300	14

Contd...

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1996	0.79	17.95	22.6	22	320	15
1997	0.83	19.10	22.9	24	340	14
1998	0.89	19.18	21.7	30	351	12
1999	0.93	20.15	21.6	31	346	11
2000	0.98	21.42	21.8	24	350	15
2001	0.99	21.94	22.2	27	384	14
2002	1.02	22.56	22.1	25	336	13
2003	1.11	25.14	22.7	32	385	12
2004	1.14	25.96	22.9	24	319	13
2005	1.15	27.55	23.9	26	348	13
2006	1.16	28.74	24.7	28	399	14
2007	1.14	29.65	26.1	29	428	15
2008	1.13	32.99	29.1	30	446	15
2009	1.13	33.67	29.9	31	451	15
2010	1.15	33.79	29.6	32	485	15
2011	1.18	35.66	30.1	33	515	15
ACGR for last ten years (2002-2011)	0.86	5.01	4.11	2.57	4.94	2.31

(Source:www.faostat.fao.org)

Table 4.79: Major carrot & turnips producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total area under carrot & turnips	Production (000't) in the world	% share to total carrot & turnip production	Productivity (t/ha)
China	452.5	39.3	15899.1	47.2	35.1
USA	31.8	2.8	1341.7	4.0	42.2
Russia	66.1	5.7	1303.3	3.9	19.7
Uzbekistan	23.0	2.0	1107.0	3.3	48.1
Poland	28.0	2.4	814.9	2.4	29.1
UK	11.5	1.0	763.1	2.3	66.1
Ukraine	44.2	3.8	714.6	2.1	16.2
Japan	18.8	1.6	620.4	1.8	33.0
Germany	10.4	0.9	554.0	1.6	53.4
Turkey	28.0	2.4	533.3	1.6	19.0
others	437.0	38.0	10068.6	29.9	36.2
World	1151.3	100.0	33719.9	100.0	29.3

(Source: www.faostat.fao.org)

Table 4.80: Percent share of area production and productivity of carrot and turnip in India

Year	Area (000'ha)	% of total area under vegetables*	Production (000't)	% of total vegetable production*	Productivity (t/ha)
1991	20	0.41	287	0.57	14.4
1992	21	0.48	293	0.58	14.0
1993	21	0.45	295	0.56	14.0
1994	22	0.49	305	0.56	13.9
1995	21	0.37	300	0.53	14.3
1996	22	0.44	320	0.56	14.5
1997	24	0.49	340	0.63	14.2
1998	30	0.56	351	0.55	11.7
1999	31	0.57	346	0.49	11.2
2000	24	0.44	350	0.48	14.6
2001	27	0.45	384	0.49	14.2
2002	25	0.43	336	0.49	13.4
2003	32	0.45	385	0.49	12.0
2004	24	0.44	319	0.49	13.3
2005	26	0.45	348	0.49	13.4
2006	28	0.44	399	0.49	14.3
2007	29	0.44	428	0.49	14.8
2008	30	0.44	446	0.49	14.9
2009	31	0.46	451	0.50	14.5
2010	32	0.44	485	0.48	15.2
2011	33	0.44	515	0.49	15.6

(Source: www.faostat.fao.org)

*Source for total vegetable area and production NHB, National Horticultural Database, 2011

Table 4.81: India's trade in carrot and turnips

(Quantity in t; Value in '000 US\$; Unit value in US\$/t)

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1961	34	0.02	6	0.04	0	0.00	0	0.00	0
1962	201	0.09	13	0.05	0	0.00	0	0.00	0
1963	25	0.01	2	0.01	0	0.00	0	0.00	0
1964	54	0.03	3	0.02	0	0.00	0	0.00	0
1965	0	0.00	0	0.00	0	0.00	0	0.00	0
1966	0	0.00	0	0.00	0	0.00	0	0.00	0
1967	2	0.00	0	0.00	0	0.00	0	0.00	0
1968	0	0.00	0	0.00	0	0.00	0	0.00	0
1969	0	0.00	0	0.00	0	0.00	0	0.00	0
1970	0	0.00	0	0.00	0	0.00	0	0.00	0
1971	0	0.00	0	0.00	0	0.00	0	0.00	0
1972	0	0.00	0	0.00	0	0.00	0	0.00	0
1973	0	0.00	0	0.00	0	0.00	0	0.00	0
1974	0	0.00	0	0.00	0	0.00	0	0.00	0
1975	0	0.00	0	0.00	0	0.00	0	0.00	0
1976	0	0.00	0	0.00	0	0.00	0	0.00	0
1977	1	0.00	0	0.00	0	0.00	0	0.00	0
1978	0	0.00	0	0.00	0	0.00	0	0.00	0
1979	0	0.00	0	0.00	0	0.00	0	0.00	0
1980	0	0.00	0	0.00	0	0.00	0	0.00	0
1981	0	0.00	0	0.00	0	0.00	0	0.00	0
1982	2	0.00	1	0.00	0	0.00	0	0.00	0
1983	0	0.00	0	0.00	0	0.00	0	0.00	0
1984	471	0.10	72	0.07	0	0.00	0	0.00	0

Contd...

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1985	0	0.00	0	0.00	0	0.00	0	0.00	0
1986	0	0.00	0	0.00	0	0.00	0	0.00	0
1987	11	0.00	6	0.00	0	0.00	0	0.00	0
1988	1	0.00	0	0.00	0	0.00	0	0.00	0
1989	0	0.00	0	0.00	0	0.00	0	0.00	0
1990	0	0.00	0	0.00	0	0.00	0	0.00	0
1991	0	0.00	0	0.00	0	0.00	0	0.00	0
1992	0	0.00	0	0.00	0	0.00	0	0.00	0
1993	0	0.00	0	0.00	0	0.00	0	0.00	0
1994	0	0.00	0	0.00	0	0.00	0	0.00	0
1995	33	0.00	8	0.00	0	0.00	0	0.00	0
1996	1	0.00	0	0.00	0	0.00	0	0.00	0
1997	70	0.01	22	0.01	0	0.00	0	0.00	0
1998	18	0.00	14	0.00	0	0.00	0	0.00	0
1999	17	0.00	14	0.00	0	0.00	0	0.00	0
2000	49	0.00	15	0.01	0	0.00	0	0.00	0
2001	10	0.00	5	0.00	0	0.00	0	0.00	0
2002	0	0.00	0	0.00	0	0.00	0	0.00	0
2003	0	0.00	0	0.00	0	0.00	0	0.00	0
2004	0	0.00	0	0.00	0	0.00	0	0.00	0
2005	0	0.00	0	0.00	0	0.00	0	0.00	0
2006	151	0.01	43	0.01	0	0.00	0	0.00	0
2007	203	0.01	93	0.01	0	0.00	0	0.00	0
2008	778	0.04	156	0.02	0	0.00	0	0.00	0
2009	596	0.03	141	0.01	104	0.01	16	0.00	154
2010	0	0.00	0	0.00	0	0.00	0	0.00	0

(Source: www.faostat.fao.org)

Cucumber & Gherkins

Table 4.82: Area, production and yield of cucumber and gherkins

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	1.01	9.55	9.4	6	26	5
1962	1.02	9.37	9.2	6	30	5
1963	1.01	9.59	9.5	6	32	5
1964	0.97	9.42	9.7	7	34	5
1965	0.96	9.31	9.7	7	38	5
1966	0.96	9.91	10.3	8	40	5
1967	0.99	10.46	10.6	8	42	5
1968	0.99	10.89	11.0	8	44	5
1969	1.00	11.08	11.1	9	46	5
1970	0.88	10.17	11.6	9	50	6
1971	0.91	10.56	11.6	9	51	5
1972	0.92	10.61	11.5	10	53	6
1973	0.96	11.27	11.8	10	58	6
1974	0.95	10.98	11.6	10	59	6
1975	0.98	11.65	11.9	11	61	6
1976	0.95	11.32	11.9	11	63	6
1977	0.97	12.30	12.6	11	64	6
1978	1.04	12.11	11.7	12	69	6
1979	1.06	13.33	12.6	12	72	6
1980	1.06	12.76	12.1	12	74	6
1981	1.09	14.20	13.1	13	81	6
1982	1.12	14.69	13.2	14	84	6
1983	1.11	14.56	13.2	14	87	6
1984	1.10	14.72	13.4	15	91	6
1985	1.16	15.47	13.3	15	92	6
1986	1.17	15.82	13.6	15	93	6
1987	1.17	16.11	13.7	15	94	6
1988	1.18	15.98	13.6	15	95	6
1989	1.22	16.17	13.3	15	98	6
1990	1.20	17.62	14.7	16	102	6
1991	1.19	17.76	14.9	16	106	6
1992	1.19	18.46	15.5	17	109	7
1993	1.31	20.70	15.8	17	111	7
1994	1.42	22.19	15.7	17	113	7
1995	1.50	24.02	16.1	17	114	7
Contd...						

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1996	1.57	25.78	16.4	17	115	7
1997	1.68	27.11	16.1	17	116	7
1998	1.82	28.60	15.7	18	117	7
1999	1.95	30.79	15.8	18	118	7
2000	2.05	34.81	17.0	18	119	7
2001	2.13	36.22	17.0	20	120	6
2002	2.21	39.35	17.8	19	105	6
2003	2.28	41.42	18.1	24	120	5
2004	2.23	42.91	19.2	18	100	6
2005	1.94	46.40	23.9	19	109	6
2006	1.91	50.08	26.3	21	125	6
2007	1.98	54.16	27.3	22	134	6
2008	1.93	58.63	30.4	23	140	6
2009	1.99	61.13	30.7	23	141	6
2010	2.02	62.80	31.1	24	152	6
2011	2.09	65.33	31.3	25	161	6
ACGR for last ten years (2002-2011)	-1.16	6.26	7.51	2.56	4.94	2.31

(Source: www.faostat.fao.org)

Table 4.83: Major cucumber & gherkins producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total area under cucumber & gherkins	Production (000't)	% share to total cucumber & gherkin production in the world	Productivity (t/ha)
China	1052.5	53.4	45546.2	73.0	43.3
Iran	75.1	3.8	1811.6	2.9	24.1
Turkey	59.0	3.0	1739.2	2.8	29.5
Russia	66.3	3.4	1161.9	1.9	17.5
USA	53.5	2.7	880.5	1.4	16.5
Ukraine	51.7	2.6	860.1	1.4	16.6
Spain	8.1	0.4	682.9	1.1	84.3
Egypt	28.2	1.4	631.4	1.0	22.4
Japan	12.1	0.6	587.8	0.9	48.6
Indonesia	56.9	2.9	547.1	0.9	9.6
others	508.1	25.8	7982.1	12.8	31.2
World	1971.6	100.0	62430.8	100.0	31.7

(Source: www.faostat.fao.org)

Table 4.84: Percent share of area production and productivity of cucumber & gherkin in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
1991	16	0.41	106	0.57	14.4
1992	17	0.48	109	0.58	14.0
1993	17	0.45	111	0.56	14.0
1994	17	0.49	113	0.56	13.9
1995	17	0.37	114	0.53	14.3
1996	17	0.44	115	0.56	14.5
1997	17	0.49	116	0.63	14.2
1998	18	0.56	117	0.55	11.7
1999	18	0.57	118	0.49	11.2
2000	18	0.44	119	0.48	14.6
2001	20	0.45	120	0.49	14.2
2002	19	0.43	105	0.49	13.4
2003	24	0.45	120	0.49	12.0
2004	18	0.44	100	0.49	13.3
2005	19	0.45	109	0.49	13.4
2006	21	0.44	125	0.49	14.3
2007	22	0.44	134	0.49	14.8
2008	23	0.44	140	0.49	14.9
2009	23	0.46	141	0.50	14.5
2010	24	0.44	152	0.48	15.2
2011	25	0.44	161	0.49	15.6

(Source: www.faostat.fao.org)

Table 4.85: India's trade in cucumber & gherkins

(Quantity in t; Value in '000 US\$; Unit value in US\$/t)

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1987	1	0.00	1	0.00	0	0.00	0	0.00	0
1988	4	0.00	1	0.00	0	0.00	0	0.00	0
1989	1	0.00	0	0.00	0	0.00	0	0.00	0
1990	0	0.00	0	0.00	0	0.00	0	0.00	0
1991	80	0.01	41	0.01	0	0.00	0	0.00	0
1992	33	0.00	14	0.00	0	0.00	0	0.00	0
1993	180	0.02	56	0.01	0	0.00	0	0.00	0
1994	1101	0.09	570	0.07	0	0.00	0	0.00	0
1995	5015	0.40	2001	0.21	0	0.00	0	0.00	0
1996	9609	0.74	4057	0.48	0	0.00	0	0.00	0
1997	10766	0.82	4816	0.64	1	0.00	2	0.00	2000
1998	5132	0.37	1720	0.21	15	0.00	6	0.00	400
1999	7980	0.56	3245	0.40	0	0.00	0	0.00	0
2000	7445	0.52	2747	0.33	0	0.00	0	0.00	0
2001	21638	1.49	6976	0.83	0	0.00	0	0.00	0
2002	27856	1.81	9748	1.07	0	0.00	0	0.00	0
2003	24096	1.49	8580	0.70	0	0.00	0	0.00	0
2004	7193	0.43	1933	0.15	0	0.00	0	0.00	0
2005	1299	0.08	402	0.03	0	0.00	0	0.00	0
2006	1043	0.06	327	0.02	0	0.00	0	0.00	0
2007	876	0.04	271	0.01	0	0.00	0	0.00	0
2008	3964	0.16	1894	0.09	0	0.00	0	0.00	0
2009	714	0.03	255	0.01	0	0.00	0	0.00	0
2010	731	0.03	194	0.01	0	0.00	0	0.00	0

(Source: www.faostat.fao.org)

Pumpkin, Squashes & Gourds

Table 4.86: Area, production and yield of pumpkin, squashes and gourds

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	1.49	6.65	4.5	125	815	7
1962	1.32	5.69	4.3	133	870	7
1963	1.57	5.98	3.8	140	940	7
1964	1.56	5.86	3.8	147	985	7
1965	1.30	5.58	4.3	150	1000	7
1966	1.18	6.03	5.1	160	1120	7
1967	1.05	5.97	5.7	170	1180	7
1968	0.86	5.93	6.9	175	1220	7
1969	0.82	5.96	7.3	180	1250	7
1970	0.76	6.01	7.9	183	1330	7
1971	0.77	6.28	8.1	190	1380	7
1972	0.77	6.22	8.1	200	1440	7
1973	0.75	6.23	8.3	205	1475	7
1974	0.77	6.55	8.5	210	1550	7
1975	0.78	6.86	8.8	215	1600	7
1976	0.79	6.89	8.7	220	1650	8
1977	0.76	6.89	9.1	225	1690	8
1978	0.77	7.09	9.3	232	1800	8
1979	0.78	7.52	9.7	239	1900	8
1980	0.84	7.96	9.5	245	1960	8
1981	0.83	8.17	9.8	250	2100	8
1982	0.89	8.58	9.7	260	2180	8
1983	0.90	8.93	10.0	265	2250	8
1984	0.89	9.50	10.6	270	2400	9
1985	0.93	9.56	10.3	278	2550	9
1986	0.90	9.94	11.0	283	2630	9
1987	0.94	10.33	11.0	286	2685	9
1988	0.90	10.03	11.1	290	2800	10
1989	0.96	10.33	10.8	300	2850	10
1990	0.97	10.56	10.9	306	2860	9
1991	0.96	10.87	11.4	308	2933	10
1992	1.00	11.55	11.5	310	2950	10
1993	1.08	13.13	12.2	315	3100	10
1994	1.12	13.58	12.1	320	3204	10
1995	1.15	14.14	12.3	330	3150	10

Contd...

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1996	1.20	15.01	12.5	335	3200	10
1997	1.24	15.54	12.5	345	3300	10
1998	1.30	16.04	12.3	350	3350	10
1999	1.35	16.45	12.2	355	3400	10
2000	1.45	17.80	12.3	360	3450	10
2001	1.48	18.20	12.3	398	3500	9
2002	1.51	18.99	12.6	381	3065	8
2003	1.66	20.49	12.3	476	3508	7
2004	1.64	20.66	12.6	358	2909	8
2005	1.60	20.37	12.7	387	3171	8
2006	1.59	21.01	13.2	420	3634	9
2007	1.61	21.54	13.3	435	3905	9
2008	1.62	21.85	13.5	451	4071	9
2009	1.77	22.47	12.7	447	4023	9
2010	1.73	23.07	13.4	481	4456	9
2011	1.77	24.30	13.7	502	4695	9
ACGR for last ten years (2002-2011)	1.33	2.27	0.93	2.56	4.94	2.31

(Source: www.faostat.fao.org)

Table 4.87: Major pumpkin, squash & gourds producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total area under pumpkin, squash & gourds	Production (000't)	% share to total pumpkin, squash & gourd production	Productivity (t/ha)
China	363.2	21.1	6667.0	29.1	18.4
India	477.2	27.7	4424.2	19.3	9.3
Russia	53.2	3.1	988.6	4.3	18.6
USA	37.6	2.2	792.7	3.5	21.1
Iran	45.2	2.6	695.6	3.0	15.4
Egypt	34.9	2.0	658.2	2.9	18.9
Mexico	32.1	1.9	522.4	2.3	16.3
Ukraine	24.8	1.4	516.9	2.3	20.8
Italy	17.3	1.0	508.1	2.2	29.4
Turkey	24.0	1.4	430.4	1.9	17.9
others	611.0	35.5	6701.8	29.3	18.6
World	1720.5	100.0	22905.9	100.0	13.3

(Source: www.faostat.fao.org)

Table 4.88: Percent share of area production and productivity of pumpkin, squash & gourds in India

Year	Area (000'ha)	% of total area under vegetables	Production (000't)	% of total vegetable production	Productivity (t/ha)
1991	308	6.33	2933	5.87	9.5
1992	310	7.02	2950	5.85	9.5
1993	315	6.68	3100	5.85	9.8
1994	320	7.18	3204	5.91	10.0
1995	330	5.87	3150	5.57	9.5
1996	335	6.64	3200	5.59	9.6
1997	345	6.97	3300	6.10	9.6
1998	350	6.58	3350	5.25	9.6
1999	355	6.49	3400	4.79	9.6
2000	360	6.58	3450	4.77	9.6
2001	398	6.61	3500	4.44	8.8
2002	381	6.61	3065	4.43	8.0
2003	476	6.63	3508	4.44	7.4
2004	358	6.63	2909	4.44	8.1
2005	387	6.63	3171	4.44	8.2
2006	420	6.63	3634	4.44	8.7
2007	435	6.63	3905	4.44	9.0
2008	451	6.63	4071	4.44	9.0
2009	447	6.62	4023	4.44	9.0
2010	481	6.63	4456	4.44	9.3
2011	502	6.63	4695	4.44	9.4

(Source: www.faostat.fao.org)

Table 4.89: India's trade in pumpkins, squash and gourds

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export			Import		
	Export Quantity	% share in world export	Export Value	Import Quantity	% share in world import	Import Value
2001	0	0.00	0	5	0.00	19
2002	0	0.00	0	0	0.00	0
2003	0	0.00	0	0	0.00	0
2004	0	0.00	0	0	0.00	0
2005	0	1.18	0	0	0.00	0
2006	5422	2.01	1404	0	0.00	0
2007	9430	0.66	5087	0	0.00	0
2008	3532	1.02	846	0	0.00	0
2009	5315	0.00	1042	0	0.00	0
2010	0	0.00	0	0	0.00	0

(Source: www.faoostat.fao.org)

Cassava

Table 4.90: Area, production and productivity of cassava

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	9.62	71.26	7.4	274.00	1969.00	7.2
1962	9.89	74.64	7.5	265.00	1892.00	7.1
1963	10.25	77.98	7.6	247.00	1757.00	7.1
1964	10.43	82.43	7.9	244.00	2823.00	11.6
1965	10.78	85.58	7.9	240.00	3033.00	12.6
1966	10.64	84.72	8.0	271.00	3467.00	12.8
1967	11.05	88.63	8.0	290.00	3817.00	13.2
1968	11.21	93.09	8.3	347.10	4643.70	13.4
1969	11.42	95.33	8.3	358.90	4636.10	12.9
1970	11.62	98.59	8.5	352.60	5214.10	14.8
1971	11.81	98.76	8.4	345.20	5129.60	14.9
1972	12.02	101.26	8.4	353.70	6025.90	17.0
1973	12.45	101.73	8.2	363.20	6371.40	17.5
1974	12.78	104.37	8.2	368.20	6420.90	17.4
1975	12.84	110.40	8.6	387.60	6325.90	16.3
1976	12.88	113.89	8.8	392.00	6638.30	16.9
1977	13.27	118.61	8.9	385.80	6375.00	16.5
1978	13.63	123.31	9.0	358.30	5688.30	15.9
1979	13.30	119.75	9.0	361.50	6050.10	16.7
1980	13.60	124.13	9.1	351.90	5845.30	16.6
1981	13.77	127.51	9.3	320.80	5868.10	18.3
1982	13.98	128.85	9.2	323.20	5292.00	16.4
1983	13.60	126.89	9.3	301.60	5340.90	17.7
1984	14.13	133.24	9.4	319.40	5886.20	18.4
1985	13.83	135.85	9.8	305.30	5662.10	18.5
1986	13.94	134.23	9.6	275.70	4884.30	17.7
1987	14.18	138.13	9.7	265.30	4814.40	18.1
1988	14.65	144.88	9.9	268.40	5416.50	20.2
1989	15.35	152.89	10.0	249.30	4832.60	19.4
1990	15.21	152.44	10.0	241.60	4962.00	20.5
1991	16.33	160.62	9.8	247.40	5416.20	21.9
1992	16.61	162.07	9.8	250.90	5832.50	23.2
1993	16.57	163.35	9.9	234.90	5412.80	23.0
1994	16.80	164.73	9.8	245.80	6028.90	24.5
1995	16.45	162.27	9.9	231.70	5856.80	25.3

Contd...

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1996	16.25	158.57	9.8	228.20	5443.20	23.9
1997	16.05	161.92	10.1	256.10	5662.80	22.1
1998	16.55	162.77	9.8	264.30	6681.90	25.3
1999	16.82	169.78	10.1	243.40	5830.00	24.0
2000	16.97	176.28	10.4	223.50	6014.10	26.9
2001	17.00	181.92	10.7	253.50	6768.40	26.7
2002	17.19	184.28	10.7	238.90	6515.90	27.3
2003	17.68	190.83	10.8	207.00	5426.20	26.2
2004	18.27	201.11	11.0	220.00	5949.60	27.0
2005	18.40	205.65	11.2	244.70	7462.80	30.5
2006	18.61	223.56	12.0	244.60	7854.90	32.1
2007	18.49	226.42	12.2	255.50	8232.30	32.2
2008	19.11	232.01	12.1	270.00	9056.00	33.5
2009	19.05	235.45	12.4	280.20	9623.00	34.3
2010	18.92	236.71	12.5	231.90	8059.80	34.8
2011	19.64	252.20	12.8	221.40	8076.00	36.5
ACGR for last ten years (2002-2011)	1.21	3.39	2.13	1.01	4.8	3.75

(Source: www.faostat.fao.org)

Table 4.91: Major cassava producing countries in the world (2011)

Country	Area (000'ha)	% share to total area under tapioca	Production (000't)	% share to total tapioca production	Productivity (t/ha)
Nigeria	3737	19.02	52404	20.78	14.0
Brazil	1741	8.86	25442	10.09	14.6
Indonesia	1183	6.02	24010	9.52	20.3
Thailand	1135	5.78	21912	8.69	19.3
China	276	1.40	4515	1.79	16.4
India	221	1.13	8076	3.20	36.5
Congo	151	0.77	1150	0.46	7.6
others	11199	57.01	114695	45.48	18.4
World	19644	100.00	252204	100.00	12.8

(Source: www.faostat.fao.org)

Table 4.92: State-wise area, production and yield of tapioca in India from 2001-02 to 2010-11

States/UTs	2001-02						2002-03						2003-04						2004-05						2005-06						
	A		P		Y		A		P		Y		A		P		Y		A		P		Y		A		P		Y		
	Area (A)	Production (P)	Yield (Y)	Area (A)	Production (P)	Yield (Y)	Area (A)	Production (P)	Yield (Y)	Area (A)	Production (P)	Yield (Y)	Area (A)	Production (P)	Yield (Y)	Area (A)	Production (P)	Yield (Y)	Area (A)	Production (P)	Yield (Y)	Area (A)	Production (P)	Yield (Y)	Area (A)	Production (P)	Yield (Y)	Area (A)	Production (P)	Yield (Y)	
Andaman & Nicobar Islands	0.2	2.4	-	0.5	0.5	-	1	-	-	-	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Andhra Pradesh	17.7	146.4	8.3	13.1	79.5	6.1	19	122	6.4	18.8	375.2	20	15.69	388.7	20.5	3	14	4.8	2.8	13.5	4.8	2.9	13.6	4.7	2.7	13.1	4.8	2.78	14	4.8	
Assam	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	-	-	-	-	-	-	-	-	5.6	-	-	-	-	-	-	6.6	
Daman & Diu	0.9	7.2	8.9	0.9	6.9	7.7	1.2	12.2	10.2	1.1	11.6	10.5	1.12	12	10.7	Karnataka	111.2	2455.9	22.6	110.3	2504.4	22.7	95	2540.8	26.7	104.4	2436.8	23.3	90.54	2585.1	28.4
Kerala	0	0	0	0	0.2	0.2	-	-	-	-	-	-	-	-	-	Manipur	4	20.6	5.2	4	20.6	5.2	4	20.6	5.2	4	20.6	5.2	4.2	23.1	5.5
Meghalaya	0.1	1.2	6.7	0.2	1.3	6.5	-	-	-	-	-	-	-	-	-	Mizoram	1.3	16.1	12.4	1.3	16.1	12.4	1.3	15.9	12.2	1.3	15.9	12.2	1.33	15.9	11.9
Nagaland	0.5	15.5	#	0.4	9.5	23.8	0.6	16.7	27.8	0.7	19.5	27.9	0.76	19.5	46.6	Putucherry	0.2	0.5	-	0	0	-	-	-	-	-	-	-	-	-	-
Rajasthan	0.5	1.2	2.4	0.5	1.2	2.4	-	-	2.4	-	-	-	0.37	-	4.5	Sikkim	108	4253	37.6	73	2772.5	22.7	95	3201.4	33.7	110.6	4563.8	41.3	127.12	4857.4	38.2
Tamil Nadu	-	-	-	-	-	-	1	6.4	6.4	1.2	6.5	5.6	1.4	9.2	6.6	Others	247.6	6934	12.12	207	5426.2	11.43	221	5949.6	13.9	246	7463	15.6	245.3	7924.9	16.75
Total India	247.6	6934	12.12	207	5426.2	11.43	221	5949.6	13.9	246	7463	15.6	245.3	7924.9	16.75	Table continues															

States/UTs	2006-07			2007-08			2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Andaman & Nicobar Islands	-	-	-	-	-	-	-	-	-	-	-	-	0.3	2.2	7.7
Andhra Pradesh	15.73	314.5	20	17.9	357.5	20	17.9	357.5	20	16.5	329.5	20	3	60.9	20
Assam	2.7	12.6	4.7	2.7	12.9	4.8	2.8	13.5	4.8	3.6	20.8	5.7	4.2	32	7.6
Daman & Diu	0.02	0.01	0.87	0.02	0.01	0.87	0.02	0.01	0.87	0.02	0.01	0.9	0	0	0
Karnataka	1.4	18.9	13.3	1	12.8	12.8	1	13	12.8	1	13.1	12.8	0.9	12.3	13.4
Kerala	87.13	2519	28.9	90.3	2492.1	27.6	86.9	2516.8	29	74.9	2525.4	33.7	72.3	2409	33.3
Manipur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meghalaya	4.2	23.3	5.5	4.3	23.5	5.5	4.9	26.4	5.4	4.9	26.4	5.4	4.9	26.4	5.4
Mizoram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nagaland	0.9	8.9	9.5	1	6	6.3	1	6	6.3	1	6	6.3	1	6	6
Puducherry	0.8	35.2	46.6	0.8	35.2	46.6	0.6	25	46.6	0.6	25	40.9	0.2	4	25
Rajasthan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sikkim	-	-	4.5	-	-	4.5	-	-	-	-	-	-	-	-	-
Tamil Nadu	137.2	5246	38.2	151.5	6114.4	40.4	165.1	6664.7	40.4	129.4	5113.6	39.5	134.6	5522.7	41
Others	5.32	53.86	10.13	0.34	1.52	4.45	-	-	-	-	-	-	0.1	0.7	14.6
Total India	255.5	8232.3	16.6	269.9	9055.9	15.8	280.2	9622.9	18.5	231.9	8059.8	18.4	221.5	8076.2	17.4

(Source: www.indiastat.com)

Table 4.93: Monthly wholesale price index (WPI) of tapioca in India {(Base year: 1981-82; 1993-94; 2004-05=100) (April 1990 to December 1992 and September 1993 to July 2012)}

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
1981-82=100												
1990				359.1	370.1	381.0	362.5	316.0	339.2	331.6	323.1	324.2
1991	332.8	324.0	312.8	318.1	294.0	287.0	301.4	295.8	297.3	326.7	324.1	336.5
1992	351.4	366.9	372.4	377.3	400.3	440.5	499.6	447.7	462.1	438.6	408.8	409.0
1993									504.1	475.2	452.4	461.3
1993-94=100												
1994	458.4	477.9	454.4	102.0	105.1	108.8	122.1	121.8	114.6	90.5	97.3	97.1
1995	93.6	100.5	101.7	103.2	107.4	106.8	109.3	112.4	117.1	120.0	114.7	116.4
1996	123.3	125.5	125.4	125.2	128.4	132.7	152.7	138.5	134.7	134.7	133.0	133.4
1997	141.7	148.5	146.5	147.8	154.0	158.4	158.3	141.6	141.0	146.4	137.5	136.8
1998	134.9	122.5	118.3	122.0	121.5	127.1	131.6	135.9	142.3	157.4	114.8	113.4
1999	119.4	122.9	128.6	138.4	147.9	148.1	148.8	148.3	148.3	166.5	190.1	199.2
2000	181.7	192.3	198.1	198.7	198.8	198.8	206.7	206.4	207.0	184.3	186.4	163.7
2001	155.8	144.1	144.1	135.0	132.0	133.1	142.8	128.3	124.6	114.3	111.7	112.6
2002	124.1	122.4	128.3	140.4	175.2	165.3	169.2	188.3	192.7	187.5	178.0	180.4
2003	174.8	192.7	180.7	194.1	210.1	216.3	216.3	207.9	201.6	212.7	204.8	197.5
2004	192.0	175.8	178.5	194.8	194.3	185.8	179.3	178.8	172.6	168.7	146.4	161.3
2006	175.9	194.2	191.0	202.8	209.7	189.9	183.3	183.6	182.5	198.6	189.5	176.6
2007	186.8	198.5	229.9	234.1	230.5	230.5	216.1	216.1	237.8	237.6	236.3	224.6
2008	232.0	227.5	231.5	248.2	255.0	268.5	271.1	264.7	258.9	254.8	256.4	276.3
2009	291.9	298.3	307.6	317.6	322.9	331.8	343.7	357.0	367.4	382.6	448.5	476.1
2010	501.1	520.8	442.4	441.7	447.1	444.4	418.6	375.6				
2004-05=100												
2005				91.0	91.0	90.2	87.3	87.8	91.9	92.4	92.3	93.8
2006	102.5	114.2	112.2	119.1	123.3	110.0	105.5	105.7	105.0	114.7	110.1	102.6
2007	108.1	114.7	134.5	136.8	134.9	134.9	127.4	127.4	139.7	140.3	139.0	131.8
2008	135.6	132.9	135.8	145.1	149.5	158.1	159.7	155.6	151.9	149.3	150.8	163.2
2009	172.8	176.7	182.5	188.8	192.3	197.9	203.9	214.1	220.8	230.5	270.3	287.3
2010	302.5	314.2	266.8	266.8	269.8	267.6	234.8	237.0	263.2	280.2	282.7	298.2
2011	327.5	334.5	331.5	319.8	286	282.1	309.1	329.6	334.4	315.2	281.5	281.1
2012	252.3	212.3	224.2	240.9	245.0	238.6	229.6					

(Source: www.indiastat.com)

Sweet Potato

Table 4.94: Area, production and yield of sweet potato

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	13.36	98.19	7.35	163.00	1261.00	7.74
1962	13.63	105.29	7.73	138.00	858.00	6.22
1963	11.97	98.01	8.19	133.00	850.00	6.39
1964	12.74	93.38	7.33	130.00	855.00	6.58
1965	11.89	108.38	9.12	155.00	1098.00	7.08
1966	12.46	119.69	9.61	179.00	991.00	5.54
1967	11.48	118.61	10.33	206.00	1297.00	6.30
1968	11.13	118.10	10.61	223.00	1664.00	7.46
1969	11.51	126.16	10.96	241.55	2042.00	8.45
1970	11.77	136.51	11.60	215.00	1621.00	7.54
1971	11.37	127.25	11.19	206.00	1731.00	8.40
1972	12.07	121.47	10.06	192.00	1538.00	8.01
1973	12.29	152.87	12.44	199.00	1431.00	7.19
1974	12.14	137.26	11.31	219.00	1550.00	7.08
1975	12.03	141.31	11.75	230.50	1658.40	7.19
1976	11.60	133.32	11.50	251.30	1810.90	7.21
1977	12.38	143.11	11.56	234.20	1555.30	6.64
1978	12.74	151.86	11.92	238.00	1588.50	6.67
1979	11.60	137.94	11.89	219.90	1623.00	7.38
1980	10.76	137.87	12.81	207.20	1313.10	6.34
1981	10.10	125.54	12.43	208.50	1501.90	7.20
1982	9.84	129.43	13.16	224.60	1696.00	7.55
1983	9.82	137.95	14.05	216.70	1586.90	7.32
1984	9.29	133.04	14.32	215.70	1585.60	7.35
1985	8.98	123.00	13.69	192.20	1627.70	8.47
1986	9.02	120.95	13.41	175.00	1408.00	8.05
1987	9.13	133.65	14.64	178.30	1490.60	8.36
1988	9.12	121.96	13.37	162.10	1257.60	7.76
1989	9.05	123.72	13.66	157.40	1271.00	8.08
1990	9.16	122.75	13.40	157.10	1251.50	7.97
1991	9.08	123.73	13.63	152.60	1273.50	8.35
1992	9.19	123.29	13.41	136.50	1130.70	8.28
1993	9.18	131.59	14.34	141.40	1215.50	8.60
1994	8.95	125.57	14.03	143.90	1220.60	8.48
1995	9.26	136.10	14.70	144.60	1166.10	8.06
Contd...						

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1996	9.26	142.07	15.34	141.00	1138.10	8.07
1997	9.17	121.40	13.24	129.90	1102.20	8.49
1998	9.21	134.74	14.63	120.60	1048.10	8.69
1999	9.72	147.15	15.14	134.40	1152.40	8.57
2000	9.79	139.14	14.22	114.00	1110.60	9.74
2001	9.64	136.18	14.13	114.00	1007.40	8.84
2002	9.40	136.75	14.54	131.90	1130.30	8.57
2003	9.18	130.81	14.24	131.90	1130.30	8.57
2004	9.31	130.68	14.04	133.10	1179.10	8.86
2005	9.02	128.21	14.21	133.30	1179.40	8.85
2006	8.12	106.96	13.17	122.80	1066.50	8.68
2007	8.15	101.16	12.41	122.70	1067.20	8.70
2008	7.95	104.15	13.10	123.00	1094.00	8.89
2009	8.19	103.35	12.62	124.30	1119.70	9.01
2010	8.17	102.51	12.54	118.90	1094.70	9.21
2011	7.95	104.26	13.11	113.20	1046.60	9.25
ACGR for last ten years (2002-2011)	-2.00	-3.57	-1.60	-1.61	-0.84	0.78

(Source: www.faostat.fao.org)

Table 4.95: Major sweet potato producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total area under sweet potato	Production (000't)	% share to total sweet potato production	Productivity (t/ha)
China	3490.93	43.89	75567.93	72.48	21.6
Nigeria	940.00	11.82	2725.00	2.61	2.9
Uganda	531.79	6.69	2554.00	2.45	4.8
Indonesia	177.86	2.24	2192.24	2.10	12.3
Vietnam	148.50	1.87	1390.60	1.33	9.4
India	113.20	1.42	1046.60	1.00	9.2
USA	52.49	0.66	1223.07	1.17	23.3
Others	2498.44	31.41	17560.55	16.84	11.9
Total	7953.20	100.00	104259.99	100.00	13.1

(Source: www.faostat.fao.org)

Table 4.96: Percent share of area production and productivity of sweet potato in India

Year	Area (000'ha)	% of total area under vegetables*	Production (000't)	% of total vegetable production*	Productivity (t/ha)
1991	152.6	3.14	1273.5	2.55	8.4
1992	136.5	3.09	1130.7	2.24	8.3
1993	141.4	3.00	1215.5	2.30	8.6
1994	143.9	3.23	1220.6	2.25	8.5
1995	144.6	2.57	1166.1	2.06	8.1
1996	141.0	2.79	1138.1	1.99	8.1
1997	129.9	2.63	1102.2	2.04	8.5
1998	120.6	2.27	1048.1	1.64	8.7
1999	134.4	2.46	1152.4	1.62	8.6
2000	114.0	2.08	1110.6	1.54	9.7
2001	114.0	1.89	1007.4	1.28	8.8
2002	131.9	2.29	1130.3	1.63	8.6
2003	131.9	1.84	1130.3	1.43	8.6
2004	133.1	2.46	1179.1	1.80	8.9
2005	133.3	2.28	1179.4	1.65	8.9
2006	122.8	1.94	1066.5	1.30	8.7
2007	122.7	1.87	1067.2	1.21	8.7
2008	123.0	1.81	1094.0	1.19	8.9
2009	124.3	1.84	1119.7	1.24	9.0
2010	118.9	1.64	1094.7	1.09	9.2
2011	113.2	1.50	1046.6	0.99	9.3

(Source: www.faostat.fao.org)

Table 4.97: State-wise area (A), production (P) and yield (Y) of sweet potato in India from 2001-02 to 2010-11

(Area: 000'ha, Production: 000't yield: t/ha)

States/UTs	2001-02			2002-03			2003-04			2004-05			2005-06			
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y	
Andaman & Nicobar Islands	-	-	-	-	-	-	-	-	7.8	-	-	7.1	-	-	0.2	-
Andhra Pradesh	1.9	25.5	13.4	-	25.5	13.4	-	-	-	-	-	-	-	0.3	20	20
Assam	8.8	30.4	3.5	8.8	30.4	3.5	8.2	28.4	3.5	8	28	3.5	8.5	25.9	3.6	3.6
Bihar	5	75.6	15.1	5	75.6	15.1	4.6	63.9	13.9	4.6	63.9	13.9	-	3.8	-	-
Chhattisgarh	-	-	-	-	-	-	-	-	-	2.7	28	10.4	3	38.2	12.6	12.6
Goa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gujarat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haryana	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jharkhand	7.6	103	13.6	7.6	103	13.6	-	0	-	-	0	#	-	0	-	-
Karnataka	3.3	24.6	7.5	3.3	24.6	7.5	3.4	41.8	12.3	3.5	71.9	10.7	3.6	42.1	11.6	11.6
Kerala	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-
Madhya Pradesh	-	-	-	-	-	-	3.8	31	-	4.3	34.7	8.1	4.7	25	6	6
Maharashtra	4.7	66.7	14.2	4.7	66.7	14.2	5	70	14	5	70	14	5	0	-	-
Manipur	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meghalaya	-	-	-	-	-	-	-	-	-	4.9	-	-	5.4	18.9	3.5	3.5
Mizoram	-	-	-	-	-	-	-	-	-	-	-	-	-	0.9	-	-
Nagaland	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-
Odisha	37.7	272.1	7.2	37.7	272.1	7.2	47	393.6	8.4	47.1	394.3	8.4	47.1	394.3	8.4	8.4
Punjab	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rajasthan	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6	-	-
Tamil Nadu	-	-	-	-	-	-	-	-	-	1.4	-	-	1.4	29.6	21.1	21.1
Tripura	-	-	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-
Uttar Pradesh	22.6	259.8	11.5	22.6	259.8	11.5	20	240.8	12	20	240.8	12.1	20	251.5	12.1	12.1
West Bengal	24	172	7.2	24	172	7.2	25.8	190.5	7.4	26.1	193.7	7.4	25.8	208	8.1	8.1
Others	16.3	100.6	-	16.3	100.6	-	19.9	119.1	-	10.3	85.6	-	4.9	-	7.1	7.1
Total India	131.9	1130.3	10.4	130	1130.3	21.9	137.7	1179.1	9.9	137.9	1210.9	9.56	129.4	1060	10.4	10.4

Table continues

States/UTs	2006-07			2007-08			2008-09			2009-10			2010-11		
	A	P	Y	A	P	Y	A	P	Y	A	P	Y	A	P	Y
Andaman & Nicobar Islands	0.1	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Andhra Pradesh	0.7	13.5	19.9	0.7	13.9	20	0.7	13.9	20	1.3	26.6	20	0.5	9.5	20.2
Assam	8.1	28.4	3.5	8.3	29	3.5	8.7	31.5	3.6	8.9	34.3	3.9	9.1	35.1	3.9
Bihar	0.2	4.4	-	-	-	-	0.3	-	-	0.4	-	-	-	-	-
Chhattisgarh	3.9	49.4	12.7	3.7	32.6	8.8	3.8	33.3	8.8	3.6	32.4	8.9	3.7	36.7	9.9
Goa	0	0	-	-	-	-	-	-	-	0	-	-	-	-	-
Gujarat	0	0	-	-	-	-	-	-	-	0	-	-	-	-	-
Haryana	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jharkhand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Karnataka	3.7	39.1	12.6	2.8	34.1	12.3	2.8	34.8	12.3	2.4	30.9	12.9	2.6	35.5	12.8
Kerala	0.5	6.4	-	-	-	-	-	-	-	0.5	-	-	-	-	-
Madhya Pradesh	4.1	23	5.6	4.2	23.3	5.5	4.6	25.7	5.5	4.5	26	5.8	5.1	29.7	5.8
Maharashtra	0	0	-	-	-	-	-	-	-	0	-	-	-	-	-
Manipur	0	0	-	-	-	-	-	-	-	0	-	-	-	-	-
Meghalaya	5.3	19	3.6	5.4	19.5	3.6	5.5	19.2	3.5	5.5	19.2	3.5	5.5	19.2	3.5
Mizoram	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nagaland	0.1	0.2	-	-	-	-	0.1	-	-	0.1	-	-	-	-	-
Odisha	47.2	403.8	8.6	47.2	404.1	8.6	49.2	417	8.5	50.7	438.8	8.7	41.1	410.2	9.3
Punjab	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rajasthan	1.6	5.2	-	-	-	-	1.5	-	-	2.2	-	-	-	-	-
Tamil Nadu	1.5	31.9	21.3	1.2	20.5	17.1	1.3	22.4	16.8	0.8	11.5	14.8	0.8	12.4	15.5
Tripura	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uttar Pradesh	20	240.8	11.5	22.3	259.9	11.7	22.7	273	12	16.8	227.9	13.6	16.8	206.6	12.3
West Bengal	-	208	8.1	23.3	235.9	10.1	22.5	231.1	10.3	22.5	231.1	10.3	22.9	235.7	10.3
Others	-	-	6.5	3.5	21.5	6.1	2.4	17.7	7.3	2.1	16	7.6	2.1	18	8.4
Total India	97	1073.6	10.4	122.6	1094.3	9.75	126.1	1119.6	9.9	122.3	1094.7	10.0	110.2	1048.6	10.17

(Source: www.indiastat.com)

Table 4.98: Monthly whole sale price index (WPI) of sweet potato in India (Base year: 1981-82; 1993-94; 2004-05=100) (April 1990 to December 1992 and September 1993 to July 2012)

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
1981-82=100												
1990				161.4	169.3	227.0	244.4	278.0	223.9	163.4	157.5	149.6
1991	190.8	228.2	196.7	200.6	198.7	280.2	326.6	311.7	244.1	189.0	140.6	124.1
1992	136.3	211.4	252.4	260.3	268.2	352.9	400.2	378.5	358.8	253.9	187.3	199.2
1993									339.1	293.4	177.4	185.3
1993-94=100												
1994	231.9	274.0	281.9	95.3	140.6	139.8	119.6	191.3	184.3	128.8	113.4	104.2
1995	143.4	187.0	189.7	165.5	148.7	153.3	158.2	168.8	219.2	217.7	200.8	124.2
1996	132.3	153.3	159.5	161.0	161.0	161.0	161.0	161.0	161.0	178.3	184.0	184.0
1997	184.0	184.0	184.0	184.0	184.0	184.0	184.0	184.0	184.0	184.0	184.0	184.0
1998	184.0	184.0	165.6	165.6	180.3	153.3	184.0	184.0	184.0	184.0	214.6	214.6
1999	214.6	207.0	214.6	214.6	214.6	214.6	217.7	241.4	291.3	275.9	260.6	184.0
2000	153.3	153.3	153.3	156.4	174.8	168.7	182.7	226.9	279.6	261.4	206.9	190.1
2001	218.4	233.8	236.7	223.1	196.3	203.6	184.0	171.7	206.0	214.6	226.9	222.0
2002	179.4	197.8	210.9	189.3	184.0	208.5	245.3	218.3	256.8	245.3	235.5	222.3
2003	237.6	245.3	255.1	233.0	225.7	306.6	203.1	209.1	273.6	291.3	256.3	256.8
2004	263.1	262.9	282.8	272.1	267.3	252.2	218.9	219.2	260.6	286.4	293.6	258.3
2006	316.6	313.5	322.7	326.2	307.3	325.0	291.3	345.0	398.6	429.2	475.2	441.5
2007	395.5	371.7	367.9	345.7	351.9	343.4	358.4	384.8	382.4	439.2	423.9	451.3
2008	323.5	316.5	333.0	317.3	300.5	296.6	307.4	372.9	439.2	446.9	435.4	433.1
2009	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	398.6	613.2
2010	613.2	613.2	613.2	613.2	613.2	613.2	475.2	383.2				
2004-05=100												
2005				94.4	76.8	77.7	82.4	95.8	116.0	168.6	162.6	127.2
2006	124.4	123.2	126.8	128.2	120.8	127.7	114.4	135.5	156.6	168.6	186.7	173.4
2007	155.4	146.0	144.5	135.8	138.2	134.9	140.8	151.2	150.2	172.5	166.5	177.3
2008	127.1	124.4	130.8	124.7	118	116.5	120.7	146.5	172.6	175.6	171.1	170.2
2009	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6	156.6	240.9
2010	240.9	240.9	240.9	240.9	240.9	240.9	168.7	150.6	150.6	150.6	150.6	150.6
2011	203.6	228.8	252.9	277.0	277.0	277.0	187.2	183.7	186.7	203.8	198.7	140.7
2012	156.6	174.7	208.6	192.7	195.7	181.2	195.7					

(Source: www.Indiastat.com)

Table 4.99: India's trade in sweet potato

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export				Import			
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	Unit Value
1961	18	0.25	1	0.15	0	0.00	0	0.00
1962	5	0.06	0	0.00	0	0.00	0	0.00
1963	3	0.05	0	0.00	0	0.00	0	0.00
1964	38	0.63	4	0.72	0	0.00	0	0.00
1965	7	0.13	1	0.27	0	0.00	0	0.00
1966	0	0.00	0	0.00	0	0.00	0	0.00
1967	0	0.00	0	0.00	0	0.00	0	0.00
1968	0	0.00	0	0.00	0	0.00	0	0.00
1969	0	0.00	0	0.00	0	0.00	0	0.00
1970	0	0.00	0	0.00	0	0.00	0	0.00
1971	0	0.00	0	0.00	0	0.00	0	0.00
1972	0	0.00	0	0.00	0	0.00	0	0.00
1973	0	0.00	0	0.00	0	0.00	0	0.00
1974	0	0.00	0	0.00	0	0.00	0	0.00
1975	0	0.00	0	0.00	0	0.00	0	0.00
1976	0	0.00	0	0.00	0	0.00	0	0.00
1977	12	0.06	3	0.07	0	0.00	0	0.00
1978	0	0.00	0	0.00	0	0.00	0	0.00
1979	228	0.89	38	0.58	0	0.00	0	0.00
1980	0	0.00	0	0.00	0	0.00	0	0.00
1981	467	1.39	54	0.71	0	0.00	0	0.00
1982	88	0.12	12	0.14	0	0.00	0	0.00
1983	161	0.10	17	0.19	0	0.00	0	0.00
1984	89	0.07	17	0.16	0	0.00	0	0.00

Contd...

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1985	40	0.01	8	0.02	0	0.00	0	0.00	0
1986	14	0.00	5	0.01	0	0.00	0	0.00	0
1987	0	0.00	0	0.00	0	0.00	0	0.00	0
1988	0	0.00	0	0.00	0	0.00	0	0.00	0
1989	12	0.00	5	0.01	0	0.00	0	0.00	0
1990	1	0.00	0	0.00	0	0.00	0	0.00	0
1991	39	0.00	10	0.01	0	0.00	0	0.00	0
1992	0	0.00	0	0.00	0	0.00	0	0.00	0
1993	0	0.00	0	0.00	0	0.00	0	0.00	0
1994	0	0.00	0	0.00	0	0.00	0	0.00	0
1995	0	0.00	0	0.00	0	0.00	0	0.00	0
1996	178	0.27	62	0.24	0	0.00	0	0.00	0
1997	0	0.00	0	0.00	0	0.00	0	0.00	0
1998	12	0.02	3	0.01	0	0.00	0	0.00	0
1999	14	0.02	7	0.02	0	0.00	0	0.00	0
2000	144	0.17	50	0.13	0	0.00	0	0.00	0
2001	119	0.14	29	0.07	0	0.00	0	0.00	0
2002	86	0.09	21	0.05	0	0.00	0	0.00	0
2003	196	0.21	34	0.06	68	0.07	4	0.01	59
2004	110	0.10	19	0.03	0	0.00	0	0.00	0
2005	571	0.45	119	0.15	0	0.00	0	0.00	0
2006	533	0.39	106	0.12	0	0.00	0	0.00	0
2007	347	0.23	86	0.08	0	0.00	0	0.00	0
2008	879	0.47	188	0.16	0	0.00	0	0.00	0
2009	534	0.28	116	0.09	0	0.00	0	0.00	0
2010	675	0.33	163	0.11	0	0.00	0	0.00	0

(Source: www.faostat.fao.org)

Table 4.100: India's trade in roots and tubers

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1962	0	0.00	0	0.00	14	0.05	16	1.33	1143
1963	0	0.00	0	0.00	1	0.00	2	0.15	2000
1964	0	0.00	0	0.00	0	0.00	0	0.00	0
1965	0	0.00	0	0.00	1	0.00	1	0.05	1000
1966	0	0.00	0	0.00	38	0.16	71	3.73	1868
1967	7	0.05	1	0.07	2	0.01	1	0.05	500
1968	24	0.15	3	0.18	0	0.00	0	0.00	0
1969	10	0.11	1	0.06	0	0.00	0	0.00	0
1970	12	0.17	1	0.05	1	0.00	1	0.03	1000
1971	9	0.06	2	0.10	0	0.00	0	0.00	0
1972	43	0.19	8	0.34	0	0.00	0	0.00	0
1973	176	0.61	13	0.20	0	0.00	0	0.00	0
1974	0	0.00	0	0.00	0	0.00	0	0.00	0
1975	4	0.01	1	0.01	0	0.00	0	0.00	0
1976	0	0.00	0	0.00	0	0.00	0	0.00	0
1977	25	0.08	9	0.08	4	0.01	10	0.09	2500
1978	30	0.09	16	0.07	205	0.33	88	0.78	429
1979	17	0.05	17	0.09	1010	1.87	434	3.23	430
1980	12	0.04	5	0.04	1001	1.85	248	1.68	248
1981	22	0.05	12	0.07	3151	3.51	956	4.35	303
1982	87	0.20	49	0.32	1289	1.75	401	2.17	311
1983	41	0.10	25	0.15	1	0.00	0	0.00	0
1984	39	0.06	28	0.12	179	0.44	76	0.62	425
1985	210	0.27	88	0.29	0	0.00	0	0.00	0
1986	148	0.19	54	0.18	0	0.00	0	0.00	0
Contd...									

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1987	220	0.23	86	0.29	19	0.04	40	0.27	2105
1988	249	0.25	97	0.22	18	0.02	12	0.03	667
1989	208	0.32	132	0.38	0	0.00	0	0.00	0
1990	157	0.26	73	0.20	0	0.00	0	0.00	0
1991	522	0.74	175	0.38	0	0.00	0	0.00	0
1992	294	0.39	100	0.26	0	0.00	0	0.00	0
1993	170	0.25	101	0.30	0	0.00	0	0.00	0
1994	487	0.91	160	0.44	0	0.00	0	0.00	0
1995	2546	3.90	796	1.90	1	0.00	14	0.02	14000
1996	647	0.90	214	0.44	1	0.00	4	0.00	4000
1997	1738	2.20	517	0.88	1	0.00	3	0.00	3000
1998	572	0.86	264	0.56	6	0.01	11	0.02	1833
1999	612	0.77	464	1.19	3	0.00	3	0.00	1000
2000	535	0.65	147	0.38	48	0.04	23	0.03	479
2001	667	0.67	216	0.42	15	0.01	17	0.02	1133
2002	433	0.53	159	0.30	22	0.02	11	0.01	500
2003	2467	2.44	642	1.00	1	0.00	4	0.01	4000
2004	1017	0.97	519	0.75	12	0.01	17	0.02	1417
2005	461	0.39	217	0.28	20	0.01	19	0.02	950
2006	546	0.48	371	0.57	0	0.00	0	0.00	0
2007	583	0.53	268	0.38	17	0.01	27	0.02	1588
2008	1703	1.08	1123	0.94	23	0.02	39	0.02	1696
2009	1850	1.12	978	0.72	15	0.01	18	0.01	1200
2010	1630	1.00	876	0.73	4	0.00	33	0.02	8250

(Source: www.faostat.fao.org)

Chilli

Table 4.101: Area, production and yield of chilli and pepper green

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
1961	0.7	5.9	9.0	2.9	17.0	6.0
1962	0.6	5.2	8.8	2.9	17.2	6.0
1963	0.6	5.3	8.9	2.9	17.3	6.0
1964	0.6	5.1	8.7	3.1	19.0	6.1
1965	0.6	5.2	8.5	3.2	19.2	6.0
1966	0.6	5.6	8.7	3.2	19.8	6.2
1967	0.7	5.9	8.9	3.3	20.2	6.2
1968	0.7	6.0	9.1	3.3	20.2	6.2
1969	0.7	6.1	9.0	3.3	20.8	6.4
1970	0.6	5.5	8.6	3.3	20.9	6.4
1971	0.7	6.0	8.8	3.3	21.0	6.4
1972	0.7	6.2	8.4	3.3	21.4	6.5
1973	0.8	6.7	8.6	3.4	22.5	6.6
1974	0.8	6.7	8.7	3.5	23.4	6.7
1975	0.8	6.6	8.3	3.6	24.1	6.7
1976	0.8	6.8	8.1	3.6	24.3	6.7
1977	0.8	7.4	8.7	3.6	25.4	7.0
1978	0.9	7.5	8.7	3.7	25.6	7.0
1979	0.9	7.8	8.8	3.7	27.0	7.3
1980	0.9	7.7	8.4	3.9	28.5	7.3
1981	0.9	8.0	8.5	3.9	28.6	7.3
1982	1.0	8.2	8.3	4.0	30.8	7.7
1983	0.9	8.5	9.1	4.1	31.6	7.7
1984	1.0	8.9	8.6	4.2	34.5	8.2
1985	1.1	9.6	8.6	4.4	36.0	8.2
1986	1.2	9.9	8.4	4.5	37.8	8.4
1987	1.1	10.2	9.3	4.6	39.0	8.5
1988	1.1	10.3	9.2	4.7	41.4	8.8
1989	1.1	10.6	9.4	4.7	41.5	8.8
1990	1.1	10.9	10.1	4.8	42.0	8.8
1991	1.1	11.1	10.2	4.8	42.2	8.8
1992	1.1	11.5	10.3	4.8	43.0	9.0
1993	1.2	12.3	10.1	4.8	43.5	9.0
1994	1.2	13.0	10.5	4.9	44.0	9.0
1995	1.3	15.2	11.8	5.0	45.5	9.1
1996	1.4	16.4	12.0	5.2	47.0	9.0
1997	1.4	17.3	12.3	5.3	48.0	9.1
1998	1.5	18.5	12.2	5.4	49.0	9.1
1999	1.6	19.4	12.2	5.7	55.0	9.7
2000	1.7	20.8	12.5	5.5	50.0	9.1
2001	1.6	21.3	13.0	6.1	50.5	8.3
2002	1.7	22.4	13.1	5.8	44.2	7.6
2003	1.7	24.2	14.0	7.3	50.6	7.0
2004	1.6	24.6	15.1	5.5	42.0	7.7
2005	1.8	25.3	14.3	5.9	45.8	7.7
Contd...						

Years	World			India		
	Area (Million ha)	Production (Million t)	Yield (t/ha)	Area (000'ha)	Production (000't)	Yield (t/ha)
2006	1.8	26.6	15.0	6.4	51.0	7.9
2007	1.8	27.5	15.4	6.6	54.8	8.2
2008	1.8	28.1	15.7	6.9	57.1	8.3
2009	1.9	29.0	15.4	6.8	56.5	8.3
2010	1.9	29.4	15.5	7.4	62.5	8.5
2011	1.9	29.9	15.8	7.7	65.9	8.6
ACGR for last ten years (2002-2011)	1.45	3.16	1.69	2.56	4.52	1.9

Chilli and pepper green include *Capsicum annuum*; *C. frutescens*; *Pimenta officinalis*. Production data exclude crops cultivated explicitly as spices. In contrast, trade data include these crops, provided they are fresh, uncrushed and unground. (Source: www.faostat.fao.org)

Table 4.102: Major chilli and pepper green producing countries in the world (2010-11)

Country	Area (000'ha)	% share to total area under chilli and pepper green	Production (000't)	% share to total chilli and pepper green production	Productivity (t/ha)
China	707	37.26	15546	51.92	22.0
Mexico	144	7.61	2132	7.12	14.8
Turkey	94	4.94	1975	6.60	21.1
Indonesia	240	12.63	1483	4.95	6.2
USA	31	1.63	1018	3.40	33.0
Spain	17	0.89	898	3.00	53.2
Egypt	40	2.09	670	2.24	16.9
Others	625	32.95	6216	20.76	23.9
World	1898	100.00	29939	100.00	15.8

(Source: www.faostat.fao.org)

Table 4.103: State-wise area, production and yield of chillies in India (2008-2009)

State	Area (ha)	Production (t)	Yield (t/ha)
Andhra Pradesh	171450	537710	3.14
Assam	14690	9490	0.65
Arunachal Pradesh	2168	2646	1.22
Bihar	3093	3089	1.00
Gujarat	31650	37840	1.20
Himachal Pradesh	740	200	0.27
Karnataka	69880	94500	1.35
Madhya Pradesh	46660	42480	0.91
Maharashtra	99300	51214	0.52
Manipur	6490	3890	0.60
Odisha	75120	63290	0.84
Punjab	9882	15888	1.61
Rajasthan	17720	17530	0.99
Tamil Nadu	49033	31830	0.65
West Bengal	51957	60727	1.17
Total	649833	972324	1.50

(Source: www.agropedia.iitk.ac.in)

Table 4.104: India's trade in chilli and pepper green

(Quantity in t; value in '000 US\$; unit value in US\$/t)

Year	Export				Import				
	Export Quantity	% share in world export	Export Value	% share in world export	Import Quantity	% share in world import	Import Value	% share in world import	Unit Value
1990	51	0.01	37	0.00	0	0.00	0	0.00	0
1991	101	0.01	32	0.00	0	0.00	0	0.00	0
1992	124	0.02	53	0.01	0	0.00	0	0.00	0
1993	293	0.03	131	0.01	0	0.00	0	0.00	0
1994	117	0.01	54	0.00	0	0.00	0	0.00	0
1995	192	0.02	103	0.01	0	0.00	0	0.00	0
1996	1316	0.11	677	0.05	0	0.00	0	0.00	0
1997	1116	0.10	418	0.03	0	0.00	2	0.00	0
1998	407	0.03	162	0.01	28	0.00	14	0.00	500
1999	1566	0.12	606	0.04	0	0.00	0	0.00	0
2000	3579	0.27	1507	0.09	0	0.00	0	0.00	0
2001	3124	0.22	1821	0.11	0	0.00	0	0.00	0
2002	3792	0.24	2298	0.13	0	0.00	0	0.00	0
2003	4404	0.26	2334	0.10	2	0.00	3	0.00	1500
2004	7903	0.44	2088	0.07	0	0.00	0	0.00	0
2005	9831	0.50	3964	0.14	0	0.00	0	0.00	0
2006	19830	0.97	5985	0.21	0	0.00	0	0.00	0
2007	27757	1.31	11108	0.30	0	0.00	0	0.00	0
2008	30743	1.32	11471	0.28	0	0.00	0	0.00	0
2009	30959	1.24	13185	0.37	25	0.00	36	0.00	1440
2010	30696	1.16	13260	0.32	40	0.00	136	0.00	3400

(Source: www.faostat.fao.org)

Table 4.105: Major destinations of green chilli exports from India

(Qty in Tonnes, Value in Lakhs ₹)

Country	2008-09		2009-10		2010-11	
	Quantity	Value	Quantity	Value	Quantity	Value
UAE	25286.97 (83)	5231.19 (85)	24103.06 (85)	5173.71 (85)	32837.11 (71)	6793.05 (70)
Bangladesh	535.92 (2)	61.55 (1)	152.78 (1)	34.81 (1)	4014.56 (9)	906.36 (9)
Pakistan	867.01 (3)	77.71 (1)	69.99 (0)	31.27 (1)	4315.13 (9)	847.08 (9)
Saudi Arabia	264.45 (1)	53.32 (1)	541.07 (2)	140.81 (2)	949.40 (2)	400.19 (4)
UK	1358.88 (4)	391.20 (6)	1204.08 (4)	278.70 (5)	1825.49 (4)	331.54 (3)
Bahrain	903.24 (3)	128.43 (2)	711.01 (3)	107.99 (2)	599.04 (1)	132.32 (1)
Qatar	182.90 (1)	39.16 (1)	200.05 (1)	51.58 (1)	505.72 (1)	122.39 (1)
Nepal	519.10 (2)	46.49 (1)	527.89 (2)	49.34 (1)	874.77 (2)	94.36 (1)
Oman	199.75 (1)	29.00 (0)	147.11 (1)	30.25 (0)	183.59 (0)	40.92 (0)
Maldives	61.44 (0)	24.50 (0)	90.51 (0)	27.23 (0)	123.97 (0)	31.79 (0)
Kuwait	77.60 (0)	11.13 (0)	540.86 (2)	140.46 (2)	152.17 (0)	28.32 (0)
US	49.57 (0)	25.31 (0)	33.87 (0)	15.04 (0)	115.65 (0)	24.89 (0)
Total	31002.49 (100)	6455.15 (100)	28561.04 (100)	6163.39 (100)	46909.36 (100)	9895.21 (100)

(Source:www.apeda.gov.in)

(Figures in parenthesis give Percentage to the total exports)

Table 4.106: Average whole sale price (WSP), retail price (RP) and total arrival of green chilli, 2012

(Price in ₹/q and arrival in tonnes)

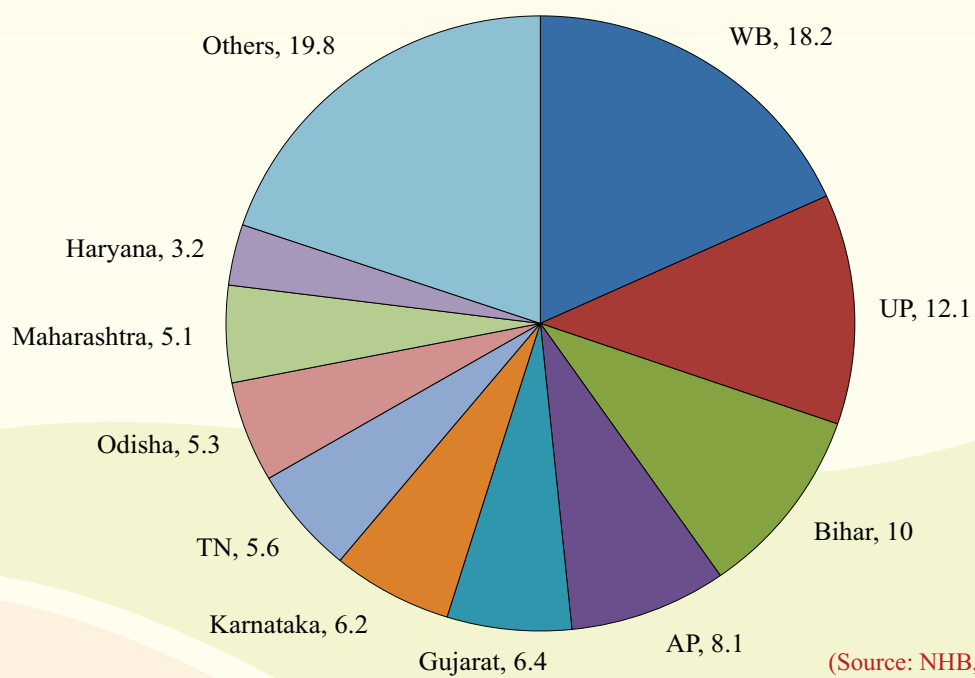
Centre	January			February			March			April			May			June		
	Avg. WSP	Avg. RP	Total Arrival	Avg. WSP	Avg. RP	Total Arrival	Avg. WSP	Avg. RP	Total Arrival	Avg. WSP	Avg. RP	Total Arrival	Avg. WSP	Avg. RP	Total Arrival	Avg. WSP	Avg. RP	Total Arrival
Abohar	1461	2417	35	1368	2273	49	1372	2278	43	1637	2529	48	1750	2617	68	1632	2565	60
Agra	1755	2552	164	1743	2545	304	2048	3136	274	1766	3436	243	1679	3077	295	1938	3458	418
Ahmedabad	1197	2160	1855	1305	2313	1789	1291	2192	1931	1513	2522	1526	1377	2271	1587	1946	2895	1237
Amritsar	1788	3960	355	2161	4763	253	2348	4565	297	1702	3976	316	1414	3375	457	2547	6111	220
Bangalore	1477	2560	386	1692	2828	468	1970	3143	340	2494	4021	334	2311	3889	203	2508	4462	271
Baraut	3298	3820	52	3515	4004	46	3491	3993	48	3509	4014	35	3250	3790	79	3830	4452	41
Bhopal	1290	1596	816	1385	1692	851	1465	1870	750	1866	2286	620	1935	2331	634	2256	2742	723
Bhubaneswar	3003	3825	91	2033	2638	203	1595	2018	248	1726	2200	111	2082	2841	107	5780	7391	61
Chandigarh	2240	3552	579	2478	3791	426	2402	4096	477	2689	4570	338	2646	4077	619	2801	5119	457
Chennai	1565	2541	1774	1383	2517	1332	1566	2376	1375	2083	2958	1149	1785	2608	1782	2608	3588	1195
Dehradun	1988	2750	38	2260	3136	41	2351	3380	27	2427	3523	31	2240	3059	190	3885	5375	28
Delhi	1894	3331	11982	2190	3633	13018	2314	3850	15422	2488	4322	6895	2041	4022	4507	3548	5231	3013
Gangtok	2189	2787	27	2083	2558	29	2592	2981	12	3226	3739	24	3356	3867	12	2993	3683	23
Guwahati	1730	2500	474	1588	2367	486	1960	2731	461	2125	2915	286	2382	3184	349	3256	4379	491
Hyderabad	785	1283	2936	895	4190	2888	1305	1862	4793	1316	1780	5927	1084	1524	7055	1892	2472	3224
Jaipur	1083	1874	2346	1130	1946	2662	1523	2742	2789	1616	2961	1887	1776	3311	617	1616	2960	489
Jammu	1938	2644	284	2134	3104	264	2386	3227	244	2600	3404	167	1975	2865	160	3313	4277	113
Kampur	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4213	5813	20
Kolkata	2891	5469	1633	2582	4949	2700	2401	4725	6625	2541	4655	1012	2654	4858	973	5000	12288	835
Lucknow	1458	2768	265	2440	4058	164	2104	3446	187	2634	4368	161	2128	3444	327	3765	5912	133
Mumbai	1781	3000	5076	1931	3000	6852	1948	3000	4497	2459	3818	3217	1745	4000	3617	2963	4667	4888
Nagpur	1110	2029	580	1389	2042	395	1463	2122	810	1892	2794	391	2265	2983	630	3124	3824	599
Nasik	2180	2481	27	2386	2662	22	2282	2574	27	2474	2792	26	2387	2710	29	2270	2648	30
Patna	2177	4676	645	2125	4296	665	1884	3890	630	1619	3508	470	1682	3542	577	3669	5744	377
Pinalgaon	0	0	0	0	0	0	2410	2700	1	0	0	0	0	0	0	0	0	0
Pune	1476	1795	837	2063	2475	1310	2062	2538	820	2418	2917	648	1563	1968	302	2161	2653	525
Raipur	1556	2496	82	1595	2945	77	1446	2815	86	1621	2671	64	2032	3232	63	2800	4265	49
Ranchi	2155	4279	679	2059	3975	765	2071	4000	667	1992	3738	627	2034	3963	781	4285	6588	514
Shimla	4017	5292	55	3985	4813	101	2887	4115	130	4895	6286	80	4277	6000	113	4677	6115	117
Srinagar	2420	3700	15	2458	4000	13	2765	4515	34	2383	4000	23	2425	3857	30	3932	5068	22
Surat	1906	3052	444	2181	3108	424	2081	2985	739	2323	3230	488	1640	2529	742	2772	4108	378
Trivandrum	2108	2875	30	1629	2243	128	1565	2152	161	1964	2743	95	1824	2420	87	2304	2938	53

Table continues

Centre	July			August			September			October			November			December		
	Avg. WSP	Total Arrival	Avg. RP	Avg. WSP	Total Arrival	Avg. RP	Avg. WSP	Total Arrival	Avg. RP	Avg. WSP	Total Arrival	Avg. RP	Avg. WSP	Total Arrival	Avg. RP	Avg. WSP	Total Arrival	
Abohar	1910	45	3095	1883	2925	51	1720	2718	70	1587	2579	74	1559	2500	1334	2124	104	
Agra	2171	533	3500	2086	3227	358	1654	2879	710	1567	3043	951	1208	2313	1059	2000	1109	
Ahmedabad	1889	3122	1551	1590	2850	1374	1064	2286	963	780	2000	1644	693	1927	685	1600	1332	
Amritsar	2326	5759	294	1533	3161	280	1524	3214	277	1640	3786	324	1122	2391	424	2000	326	
Bangalore	3930	6220	256	2250	4208	339	2198	3881	278	2009	4000	344	1915	3438	272	1927	277	
Baraut	4702	5524	25	3258	3923	28	3122	3848	26	3083	3763	27	2667	3325	40	2398	33	
Bhopal	2879	3450	712	2317	2922	621	929	1213	959	917	1200	803	1180	1512	778	1279	1262	
Bhubaneswar	4817	5936	75	2221	2862	89	2328	3193	130	2876	3695	100	2603	3530	126	2338	143	
Chandigarh	2554	4377	561	2051	3725	659	2297	3908	676	2414	4271	681	2309	3900	689	2197	657	
Chennai	2265	3254	1198	1492	2383	1190	1404	2216	1185	1335	2122	1224	1235	1975	1196	1035	953	
Dehradun	4088	6130	37	2254	3875	76	1941	3479	76	2648	4364	77	2500	4304	89	1679	78	
Delhi	3765	5434	7196	1677	4560	4683	1431	3766	6748	1809	3777	7533	1331	3571	1149	2969	12687	
Gangatok	8308	11500	10	5854	7854	25	4784	6320	33	4642	6100	43	2408	3242	38	2500	52	
Guwahati	7211	10537	388	4613	6840	471	5069	7271	262	4100	5008	348	3274	4157	403	3188	521	
Hyderabad	1715	2304	1292	1017	1617	2032	908	1617	1902	955	1581	1499	1233	1957	1559	1586	2358	
Jaipur	1886	3540	366	1542	2935	942	990	1687	3822	1059	1813	2990	974	1674	1717	882	1793	
Jammu	3079	3936	139	1602	2550	179	1915	2729	130	1835	2771	155	1215	2004	264	1248	199	
Kanpur	5150	7167	115	3445	5200	61	2800	4500	9	0	0	0	650	1500	30	0	0	
Kolkata	4835	7842	1266	2526	5107	3659	2800	6146	948	2271	5052	3944	1768	3808	2117	1860	1036	
Lucknow	4392	7019	205	2502	3867	184	2239	4160	176	1516	2361	330	660	1386	529	603	535	
Mumbai	3085	5731	6123	1921	3875	4936	1165	2348	3826	1342	2958	4045	1275	2700	3608	1331	4866	
Nagpur	2752	4077	298	1808	3070	365	1089	2619	795	1272	2250	542	1106	2500	910	755	970	
Nasik	3083	3540	65	2051	2380	51	1481	1770	56	1383	1651	31	1637	1910	26	1432	104	
Patna	5239	9056	300	1755	3521	555	2463	4606	340	1788	4044	675	1243	2869	1095	1406	2531	
Pimalgaon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Pune	2411	3014	1124	1729	2247	647	1225	1556	721	1340	1670	795	1118	1471	858	1288	1076	
Raipur	4129	5942	55	2636	4118	98	1500	2854	132	1172	2391	105	1214	2381	85	1047	154	
Ranchi	7807	11120	692	4960	7587	700	2207	3733	651	2089	3496	732	1457	3033	673	2085	666	
Shimla	5492	7920	124	4288	5583	132	2894	4875	142	2979	4375	157	3198	5000	134	2564	124	
Srinagar	3894	4938	24	2796	3565	23	2329	3105	19	2317	3125	24	2339	3114	22	2562	26	
Surat	3318	4600	306	1820	2815	893	1258	2095	880	1423	2213	1042	1519	2395	1075	1417	570	
Trivandrum	3243	4193	62	1820	2448	102	1983	2676	83	1875	2529	47	1742	2364	266	2068	165	

(Source: NHB, National Horticulture Database, 2011)

Percentage share of different states in vegetable production in India (2010-2011)



(Source: NHB, 2011)