
Fruits & Vegetables – Imports into and Exports from India

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Year	SDR		US Dollar		Pound Sterling		Euro		Japanese Yen @	
	Average	End-year	Average	End-year	Average	End-year	Average	End-year	Average	End-year
2003-04	65.6876	64.2393	45.9516	43.445	77.7389	79.6813	53.9896	53.1725	40.7077	41.6725
2004-05	66.9282	66.0987	44.9315	43.755	82.8644	82.1125	56.513	56.5863	41.8046	40.8075
2005-06	64.4898	64.2566	44.2735	44.605	79.0472	77.7963	53.9124	54.1875	39.1438	38.0188
2006-07	66.6775	65.8289	45.2849	43.595	85.7274	85.5938	58.111	58.1513	38.7975	37.0338
@Rupees per 100 Yen.										
Source: Reserve Bank of India										

Reference Table 0.2 – Quarterly average foreign exchange rates in relation to INR

Currency	Apr-Jun 07	Jul-Sep 07	Oct-Dec 07	Jan-Mar 08	Apr-Jun 08	Week ending 19 Sep 08
USD	41.25	40.54	39.47	39.83	41.71	46.31
GBP	81.90	81.90	80.60	78.86	82.25	83.12
EURO	55.60	55.69	57.20	59.90	65.25	65.96
JPY	34.17	34.43	34.91	37.99	39.91	43.92
CHF	33.75	33.81	34.47	37.48	40.52	41.55
AUD	34.28	34.28	35.10	36.09	39.42	37.10
HKD	5.28	5.19	5.08	5.11	5.35	5.95
SGD	27.03	26.72	27.16	28.29	30.54	32.31
CAD	37.55	38.74	40.28	39.70	41.35	43.36
Source: Foreign Exchange Dealers' Association of India						

1. Introduction

Please consider these facts about India:

- Population of 1.14 billion growing at about 1.5 per cent per annum
- Economy growing at 7-9 per cent per annum
- More than 90 per cent of the population has at least 10 pure vegetarian meals per week.

There can be no doubt that India is the largest collection of consumers of fruits and vegetables. One may also add that Indian fruits and vegetables market is the fastest growing market in the world.

Combine this with the fact that India is the second-largest producer of fruits and vegetables.

Looking at this gigantic market can be truly mind-boggling. The variety of fruits and vegetables produced in India is enormous. India buys a vast variety and ships an even larger variety of fruits and vegetables.

The first challenge in a study of imports into and exports from India of fruits and vegetables was to identify key products. From Harmonized System of Classification (HS Code) chapters 7, 8 and 20 were identified as containing the complete range of fruits, vegetables and products made from them. From these three chapters, 29 products were selected as important in the imports basket of India, while number of key items selected from exports basket was 47. The selected products cover more than 95 per cent of the total quantity and value of imports and exports of India under the above three chapters of HS Code.

Major segments covered in the report are:

- Vegetables, fresh
- Vegetables, frozen
- Vegetables, prepared / preserved
- Vegetables, dehydrated
- Fruits, fresh
- Nuts
- Dry fruits
- Fruit / vegetable products
- Pulses

Pulses are a major item of consumption in India and also form a large part of the import / export trade of India. Traditionally in India, pulses are not considered part of fruits and vegetables. However, keeping in line with international practice, we have included pulses as part of this report.

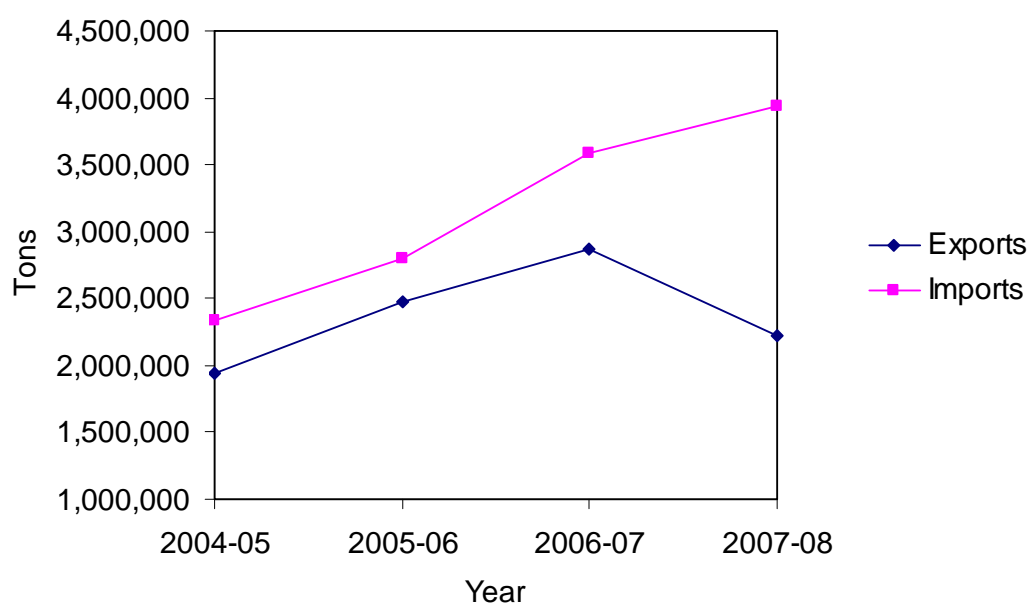
Growing population and rising incomes have led to increased consumption of fruits and vegetables in India. Domestic agricultural and horticultural production is rising at less than 3 per cent per annum. This is grossly inadequate to keep pace with the growth in demand. Hence, imports are rising, while exports growth is stagnating. The following table of exports and imports of products selected in this study illustrates this.

Table 1.1 – Exports and imports of fruits and vegetables covered by this study

Year	Exports	Imports
	000 Tons	000 Tons
2004-05	1,945	2,340
2005-06	2,470	2,797
2006-07	2,863	3,580
2007-08*	2,225	3,935
* Annualized from Apr-Dec 2007 data by multiplying with 4/3		

Increasing gap between imports and exports is clearly illustrated by this graph.

Chart 1.1 – Exports and imports of fruits and vegetables covered by this study



Increasing import of fruits and vegetables by India is an opportunity for companies across the world. Some Indian companies active in the space may need to realign their export-oriented strategies with the new emerging scenario.

On the other hand, it is interesting to note the emerging maturity of Indian food industry. Imports of commodities are rising but imports of value-added products are not rising in the same way. Indian industry is able to emerge as a global processing centre – importing commodities and exporting value added goods. Exports of commodities are stagnating, while export of value-added products is increasing.

This report is focused on data of imports and exports. However, we look forward to working with you to conduct studies with sharply defined objectives to help you make use of the opportunities emerging in India. Kindly do contact us.

2. Production of Fruits & Vegetables

2.1 Overview

India is second largest producer of Fruits (58.74 million tons) and vegetables (109.05 million tons) in the world, contributing 10.9 per cent and 11.9 per cent of total world production of fruits and vegetables respectively (Source: NHB).

India ranks first in the production of coconut and arecanut and is the largest producer, processor, consumer and exporter of cashew nut in the world.

Production of important vegetables and fruits as per FAO is as given below.

Table 2.1 – Production of fruits and vegetables over years as per FAO

Commodity	Year				
	2002	2003	2004	2005	2006
Apples	1,160,000	1,470,000	1,521,600	1,739,000	1,739,000
Apricots	10,000	10,000	10,656	11,088	11,088
Arecanuts	400,000	415,900	439,200	452,700	483,100
Bananas	16,820,000	11,954,300	11,388,000	11,710,300	11,710,300
Barley	1,424,500	1,407,400	1,297,600	1,207,100	1,220,000
Beans, dry	2,728,400	3,611,500	3,174,700	2,660,000	3,174,000
Beans, green	420,000	420,000	420,000	420,000	420,000
Cabbages and other brassicas	5,680,000	5,800,000	5,594,600	6,147,700	6,147,700
Carrots and turnips	350,000	350,000	364,281	373,124	373,124
Cashew nuts, with shell	470,000	500,000	535,000	544,000	573,000
Cassava	6,834,000	5,426,200	5,945,300	5,854,800	7,620,200
Cauliflowers and broccoli	4,890,000	4,800,000	4,940,200	4,507,900	4,507,900
Cherries	8,000	8,000	8,000	8,000	8,000
Chick peas	5,473,000	4,236,800	5,717,500	5,469,400	5,600,000
Chillies and peppers, dry	1,100,000	1,100,000	1,154,942	1,193,025	1,193,025
Chillies and peppers, green	50,500	50,500	52,162	53,198	53,198
Citrus fruit, nec	100,000	88,000	105,647	113,013	113,013
Coconuts	8,942,000	9,313,505	9,048,403	9,534,845	11,000,000
Copra	700,000	725,000	735,000	750,000	750,000
Cucumbers and gherkins	120,000	120,000	123,057	124,887	124,887
Eggplants (aubergines)	8,350,000	7,830,000	8,477,300	8,703,800	8,703,800
Figs	10,500	10,500	11,617	12,312	12,312
Fruit, nec	9,250,000	9,530,000	9,530,000	9,530,000	9,530,000
Garlic	500,000	457,000	691,100	646,600	646,600
Ginger	230,000	280,200	301,900	359,000	359,000
Grapefruit (inc. pomelos)	140,000	142,000	148,634	154,327	154,327
Grapes	1,210,000	1,150,000	1,474,800	1,546,300	1,546,300
Guavas, mangoes, mangosteens	10,640,000	10,780,000	1,830,700	11,140,115	11,140,115
Lemons and limes	1,440,000	1,420,000	1,539,791	1,617,783	1,617,783
Lentils	974,400	873,200	1,037,800	994,200	950,000
Lettuce and chicory	790,000	790,000	802,254	809,851	809,851

(Table 2.1 continued on next page)

Table 2.1 (Continued) – Production of fruits and vegetables over years as per FAO (Continued)

Commodity	Year				
	2002	2003	2004	2005	2006
Mushrooms and truffles	33,000	48,000	39,497	39,094	39,094
Okra	3,320,000	3,530,000	3,631,400	3,524,900	3,524,900
Onions, dry	5,450,000	4,506,100	5,922,500	6,434,600	6,434,600
Oranges	3,120,000	3,070,000	3,312,388	3,469,354	3,469,354
Other melons (inc.cantaloupes)	645,000	645,000	649,992	652,959	652,959
Papayas	700,000	700,000	750,627	783,383	783,383
Peaches and nectarines	150,000	150,000	155,193	159,640	159,640
Pears	200,000	200,000	200,000	200,000	200,000
Peas, dry	700,000	800,000	900,000	780,000	800,000
Peas, green	2,040,000	3,200,000	1,901,200	1,917,800	1,917,800
Pigeon peas	2,260,000	2,185,800	2,356,400	2,346,900	2,740,000
Pineapples	1,180,000	1,310,000	1,234,200	1,229,400	1,229,400
Plums and sloes	90,000	100,000	96,213	97,635	97,635
Potatoes	23,920,000	23,268,700	23,060,100	23,631,300	23,910,000
Pulses, Nec	1,000,000	1,500,000	1,500,000	1,500,000	1,000,000
Pumpkins, squash and gourds	3,500,000	3,500,000	3,609,400	3,678,413	3,678,413
Raspberries and other berries	1,400	1,400	1,459	1,501	1,501
Stone fruit, nec	1,400	1,400	1,400	1,400	1,400
Sweet potatoes	848,200	956,200	937,800	932,500	955,100
Tomatoes	7,460,000	7,600,000	8,125,600	8,637,700	8,637,700
Vegetables, nec	27,180,000	34,740,000	35,000,000	35,000,000	35,000,000
Walnuts, with shell	30,000	31,000	34,000	32,000	36,000
Watermelons	255,000	255,000	266,805	274,116	274,116
Source: FAO					
Production data is given in tons					

From the above table, it can be seen that major vegetables of India are potatoes, eggplants, tomatoes, cassava, onions, cabbages, chickpeas, pumpkins and okra.

Table 2.2 – Production of major vegetables arranged in descending order

Vegetables	Year				
	2002	2003	2004	2005	2006
Vegetables, nec	27,180,000	34,740,000	35,000,000	35,000,000	35,000,000
Potatoes	23,920,000	23,268,700	23,060,100	23,631,300	23,910,000
Eggplants (aubergines)	8,350,000	7,830,000	8,477,300	8,703,800	8,703,800
Tomatoes	7,460,000	7,600,000	8,125,600	8,637,700	8,637,700
Cassava	6,834,000	5,426,200	5,945,300	5,854,800	7,620,200
Onions, dry	5,450,000	4,506,100	5,922,500	6,434,600	6,434,600
Cabbages and other brassicas	5,680,000	5,800,000	5,594,600	6,147,700	6,147,700
Chick peas	5,473,000	4,236,800	5,717,500	5,469,400	5,600,000
Cauliflowers and broccoli	4,890,000	4,800,000	4,940,200	4,507,900	4,507,900
Pumpkins, squash and gourds	3,500,000	3,500,000	3,609,400	3,678,413	3,678,413
Okra	3,320,000	3,530,000	3,631,400	3,524,900	3,524,900
Beans, dry	2,728,400	3,611,500	3,174,700	2,660,000	3,174,000
Pigeon peas	2,260,000	2,185,800	2,356,400	2,346,900	2,740,000
Peas, green	2,040,000	3,200,000	1,901,200	1,917,800	1,917,800
Source: FAO					
Production data is given in tons					

India is the world's largest producer of peas (29.5 per cent of world production). India occupies second rank in respect of production of brinjal (egg plant) (28.7 per cent of world production), cabbage (8.8 per cent of world production), cauliflower (28.9 per cent of world production) and onion (14.7 per cent of world production). In potato, India has third rank after China and Russia, accounting for 8.9 per cent of world production.

India is the world's largest producer of mango (40.1 per cent of world production), banana (24.5 per cent of world production) and papaya (28.8 per cent of world production). In lime and lemons, India has second position with 13.8 per cent of world production. In oranges, India contributes 7.1 per cent of world production and has third position after Brazil and USA.

Major fruits of India are bananas, mangoes, coconuts, oranges, apples, lemons & limes, grapes and pineapples.

Table 2.3 – Production of major fruits arranged in descending order

Fruits	Year				
	2002	2003	2004	2005	2006
Bananas	16,820,000	11,954,300	11,388,000	11,710,300	11,710,300
Guavas, mangoes, mangosteens	10,640,000	10,780,000	1,830,700	11,140,115	11,140,115
Coconuts	8,942,000	9,313,505	9,048,403	9,534,845	11,000,000
Fruit, nec	9,250,000	9,530,000	9,530,000	9,530,000	9,530,000
Oranges	3,120,000	3,070,000	3,312,388	3,469,354	3,469,354
Apples	1,160,000	1,470,000	1,521,600	1,739,000	1,739,000
Lemons and limes	1,440,000	1,420,000	1,539,791	1,617,783	1,617,783
Grapes	1,210,000	1,150,000	1,474,800	1,546,300	1,546,300
Pineapples	1,180,000	1,310,000	1,234,200	1,229,400	1,229,400
Papayas	700,000	700,000	750,627	783,383	783,383
Copra	700,000	725,000	735,000	750,000	750,000
Other melons (inc.cantaloupes)	645,000	645,000	649,992	652,959	652,959
Cashew nuts, with shell	470,000	500,000	535,000	544,000	573,000
Arecanuts	400,000	415,900	439,200	452,700	483,100
Watermelons	255,000	255,000	266,805	274,116	274,116
Pears	200,000	200,000	200,000	200,000	200,000
Peaches and nectarines	150,000	150,000	155,193	159,640	159,640
Grapefruit (inc. pomelos)	140,000	142,000	148,634	154,327	154,327
Citrus fruit, nec	100,000	88,000	105,647	113,013	113,013
Plums and sloes	90,000	100,000	96,213	97,635	97,635
Walnuts, with shell	30,000	31,000	34,000	32,000	36,000
Figs	10,500	10,500	11,617	12,312	12,312
Apricots	10,000	10,000	10,656	11,088	11,088
Cherries	8,000	8,000	8,000	8,000	8,000
Source: FAO					
Production data is given in tons					

The production data provided by FAO is, in case of some fruits and vegetables, vastly different from the data published by National Horticulture Board (NHB), the official agency for such data in India. In respect of some major fruits and vegetables, we provide the data from NHB as follows:

Table 2.4 – Area, production and productivity of major fruits (2005-06)

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
Banana	565	18,702	33.1
Mango	2,021	12,538	6.2
Citrus	749	6,326	8.4
Papaya	73	2,317	31.7
Guava	182	1,823	10.0
Apple	235	1,756	7.5
Grapes	64	1,631	25.4
Pineapple	85	1,353	15.8
Sapota	140	1,117	8.0
pomegranate	116	849	7.3
Litchi	63	381	6.0
Others	1,217	9,947	8.2
Total	5,510	58,740	
Source: Indian Horticulture Database 2006			

Table 2.5 – Area, production and productivity of major vegetables (2005-06)

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
Potato	1,550	29,094	18.8
Tomato	535	9,362	17.5
Onion	695	9,248	13.3
Brinjal	553	9,136	16.5
Tapioca	253	7,925	31.4
Cabbage	267	5,922	22.1
Cauliflower	292	5,260	18.0
Okra	376	3,684	9.8
Peas	314	2,299	7.3
Sweet Potato	129	1,149	8.9
Others	2,200	25,971	11.8
Total	7,164	109,050	
Source: Indian Horticulture Database 2006			

Table 2.6 – Area, production and productivity of major plantation crops (2005-06)

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
Cashewnut	843	579	0.7
Arecanut	381	483	1.3
Cocoa	30	10	0.3
Coconut	2,029	10,190	5.0
Total	3,283	11,263	
Source: Indian Horticulture Database 2006			

Table 2.7 – Area, production and productivity of major nut crops (2005-06)

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
Almond	21.1	14.6	0.7
Walnut	99.8	118.9	1.2
Total	120.9	133.5	
Source: Indian Horticulture Database 2006			

An important difference between data from FAO and from Indian Horticulture Database (NHB) is that pulses like chickpeas, pigeon peas, lentils are classified as vegetables by FAO while NHB does not include them in vegetables.

2.2 Potato

India produces about 29 million tons of potatoes every year.



Potato yield has increased from 6.9 to 19.4 tons per hectare during the decades from 1950 to 2001. However, there has been some decline in productivity after 2001 even though the area under potato cultivation has been steadily increasing.

Table 2.8 – Potato - area, production and productivity over years

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
1991-92	1,135.1	18,195	16.0
1992-93	1,240.0	18,479	14.9
1993-94	1,047.1	17,392	16.6
1994-95	1,069.4	17,401	16.3
1995-96	1,109.0	18,843	17.0
1996-97	1,248.8	24,216	19.4
1997-98	1,208.9	17,652	14.6
1998-99	1,280.2	22,495	17.6
1999-00	1,340.9	25,000	18.6
2000-01	1,211.3	22,243	18.4
2001-02	1,259.5	24,456	19.4
2002-03	1,337.2	23,161	17.3
2003-04	1,484.7	27,926	18.8
2004-05	1,523.9	28,788	18.9
2005-06	1,550.2	29,094	18.8
Source: Indian Horticulture Database 2006			

Most of the varieties grown in India are not suitable for processing due to high sugar content. Some global food companies have made efforts to introduce new varieties suitable for making

chips and such other products.

Table 2.9 – Potato - area, production and productivity by different states

State	Area			Production			Productivity		
	000 Ha			000 Tons			Tons / Ha		
	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06
Uttar Pradesh	422.1	440.0	443.2	8,826	9,822	9,987	20.9	22.3	22.5
West Bengal	306.0	320.6	320.6	7,592	7,107	7,107	24.8	22.2	22.2
Bihar	318.1	318.1	308.9	5,657	5,657	5,703	17.8	17.8	18.5
Punjab	71.9	72.9	75.0	1,440	1,470	1,224	20.0	20.2	16.3
Gujarat	35.8	43.3	41.0	780	978	1,089	21.8	22.6	26.6
Madhya Pradesh	46.6	52.2	53.3	699	783	800	15.0	15.0	15.0
Assam	78.0	73.1	90.1	543	589	629	7.0	8.1	7.0
Uttaranchal	#	22.1	22.2	#	449	451	#	20.3	20.3
Haryana	17.9	18.4	19.0	440	442	374	24.6	24.0	19.7
Karnataka	59.5	55.8	57.5	527	354	368	8.9	6.3	6.4
Others	128.9	107.6	119.5	1,424	1,138	1,364	11.0	10.6	11.4
Total	1,484.8	1,524.1	1,550.3	27,926	28,788	29,094			
# = included in others									
Source: Indian Horticulture Database 2006									

It is clear from the above that Uttar Pradesh, West Bengal and Bihar score over all other states in potato production, contributing almost 78 per cent of national production.

Main varieties of potatoes grown in India are Kufri Sindhuri, Kufri Chandramukhi, Kufri, Jyoti, Kufri Muthu, Kufri Lauvkar, Kufri Dewa, Kufri Badshah, Kufri Bahar, Kufri Lalima, Kufri Swarna, Kufri Megha, Kufri Ashoka, Kufri Jawahar and Kufri Sutlej.

Peak harvesting season for potato in Uttar Pradesh is April-May and September-October., while it is May-June for Bihar and first half of May for Punjab. In West Bengal and Gujarat it is harvested round the year.

2.3 Onions

India produces about 9 mio tons of onions every year.

Main varieties of onions grown in India are Agrifound Dark Red, Agrifound Light Red, Agrifound Red, Agrifound Rose, Arka Bindu, Arka Kalyan, Arka Niketan, Arka Pragati, Baswant 780, Brown Spanish, Co-1, Co-2, Co-3, Co-4, Early Grano, Hissar II, Kalyanpur Red Round, MDU 1 N-2-4-1, N-53, N-257-9-1, Punjab 48 (S 48), Pusa Madhavi, Punjab Red Round, Punjab Selection, Pusa Ratnar, Pusa Red, Pusa White Flat, Pusa White Round, Udaipur 101, 102 and 103.

Peak harvesting season for onion in Maharashtra is April and November, while it is February for Gujarat and March for Bihar. In Karnataka, the peak season is September-December.

Onions can be stored fresh at 0 Celsius for 3-5 months and frozen at -18 Celsius for 6-12 months.

Table 2.10 – Onion - area, production and productivity over years

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
1991-92	331.8	4,706	14.2
1992-93	380.2	5,705	15.0
1993-94	367.5	4,006	10.9
1994-95	378.6	4,036	10.7
1995-96	395.5	4,080	10.3
1996-97	410.0	4,180	10.2
1997-98	340.0	3,140	9.2
1998-99	480.6	5,467	11.4
1999-00	493.3	4,900	9.9
2000-01	448.9	4,721	10.5
2001-02	495.8	5,252	10.6
2002-03	424.7	4,210	9.9
2003-04	553.8	6,268	11.3
2004-05	613.8	7,761	12.6
2005-06	695.1	9,248	13.3
Source: Indian Horticulture Database 2006			



Western states of Maharashtra and Gujarat dominate onion production. The two states along with Bihar and Karnataka account for about 62 per cent of national production. Almost all onion processing units are located in the states of Maharashtra and Gujarat.

Table 2.11 – Onion - area, production and productivity by different states

State	Area			Production			Productivity		
	000 Ha			000 Tons			Tons / Ha		
	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06
Maharashtra	121.1	121.7	154.0	1,435	1,422	1,879	11.8	11.7	12.2
Gujarat	25.0	58.5	84.9	717	1,341	1,877	28.7	22.9	22.1
Bihar	48.3	48.8	49.8	918	975	1,012	19.0	20.0	20.3
Karnataka	132.4	135.0	139.0	539	970	1,009	4.1	7.2	7.3
Andhra Pradesh	29.0	35.4	39.4	436	567	670	15.0	16.0	17.0
Madhya Pradesh	31.0	34.7	40.0	465	521	640	15.0	15.0	16.0
Rajasthan	33.6	42.9	44.5	249	348	427	7.4	8.1	9.6
Haryana	19.9	17.2	15.5	295	353	318	14.8	20.5	20.5
Uttar Pradesh	21.2	21.2	21.2	246	246	283	11.6	11.6	13.3
Orissa	26.6	26.8	26.8	240	242	244	9.0	9.0	9.1
Tamil Nadu	23.5	26.5	29.2	211	256	234	9.0	9.7	8.0
Others	42.2	45.2	50.8	517	521	657	#	11.5	12.9
Total	553.8	613.9	695.1	6,268	7,761	9,248			
Source: Indian Horticulture Database 2006									

South Indian states of Karnataka and Tamil Nadu produce a variety of onion called rose onion, which is exported in large quantities.

2.4 Tomato

India produces about 9.3 mio tons of tomato every year.

Table 2.12 – Tomato - area, production and productivity over years

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
1991-92	289.1	4,243	14.7
1992-93	305.6	4,550	14.9
1993-94	345.9	4,934	14.3
1994-95	351.8	5,261	15.0
1995-96	355.7	5,442	15.3
1996-97	391.2	5,788	14.8
1997-98	413.7	6,184	14.9
1998-99	466.3	8,272	17.7
1999-00	456.5	7,427	16.3
2000-01	460.1	7,242	15.7
2001-02	458.1	7,462	16.3
2002-03	478.8	7,617	15.9
2003-04	502.8	8,126	16.2
2004-05	505.4	8,825	17.5
2005-06	534.5	9,362	17.5

Source: Indian Horticulture Database 2006

Main varieties of tomatoes grown in India are Arka Saurabh, Arka Vikash, ARTH 3, ARTH 4, Avinash 2, BSS 90, CO3, HS 101, HS 102, HS 110, Hisar Anmol, Hisar Arun, Hisar Lalima, Hisar Lalit, Krishna, KS 2, Matri, MTH 6, NA 601, Naveen, Pusa 120, Punjab Chhuhara, Pant Bahar, Pusa Divya, Pusa Early Dwarf, Pusa Hybrid 1, Pusa Hybrid 2, Pusa Hybrid 4, Pusa Ruby, Pusa Sheetal, Pusa Uphar, Rajni, Rashmi, Ratna and Rupali.

Table 2.13 – Tomato - area, production and productivity by different states

State	Area			Production			Productivity		
	000 Ha			000 Tons			Tons / Ha		
	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06
Andhra Pradesh	77.1	69.5	76.5	925	1,251	1,454	12.0	18.0	19.0
Orissa	100.2	100.3	100.4	1,330	1,331	1,332	13.3	13.3	13.3
Karnataka	37.0	43.2	44.5	1,025	1,142	1,188	27.7	26.4	26.7
Maharashtra	32.1	33.5	35.0	892	884	987	27.8	26.4	28.2
West Bengal	47.6	46.1	50.0	749	695	857	15.7	15.1	17.2
Bihar	45.3	46.0	46.0	588	736	727	13.0	16.0	15.8
Gujarat	18.8	22.8	29.3	321	422	650	17.1	18.5	22.2
Chhatisgarh	20.2	20.7	29.2	302	218	366	15.0	10.5	12.5
Madhya Pradesh	#	21.0	20.4	#	315	307	#	15.0	15.0
Tamil Nadu	#	25.3	22.0	#	322	278	#	12.7	12.6
Haryana	#	13.8	17.1	#	220	257	#	16.0	15.0
Others	124.5	63.3	64.1	1,993	1,291	959	16.0	20.4	15.0
Total	502.8	505.5	534.5	8,126	8,825	9,362			
# = included in others									
Source: Indian Horticulture Database 2006									

Andhra Pradesh, Orissa, Karnataka, Maharashtra and West Bengal together account for about

62 per cent of the national production.

Peak harvesting season in all states (except Himalayan region) is during the winter months of October to February.

2.5 Mushrooms

In India, mushroom is a unique non-traditional horticultural cash crop grown indoors, both as a seasonal crop and round-the-year under controlled environmental conditions. Exact statistics about the production and productivity of mushrooms in the country are not available as mushroom production systems are mixed type i.e. both seasonal farming as well as high-tech industry.

Mushroom production in the country was started very late in the 70s but growth rate, both in terms of productivity as well as production has been phenomenal. In seventies and eighties button mushroom was grown as a seasonal crop in the hills, but with the development of technologies for environmental controls and increased understanding of the cropping systems, mushroom production shot up from mere 5000 tons in 1990 to 100,000 tons in 2006.

Commercially grown species are button and oyster mushrooms, followed by other tropical mushrooms. The concentrated areas of production in India are the temperate regions for button mushroom, tropical and sub-tropical regions for oyster, milky, paddy straw and other tropical mushrooms.

Two to three crops of button mushroom are grown seasonally in temperate regions with minor adjustments of temperature in the growing rooms; while one crop of button mushroom is raised in North Western plains of India seasonally. Oyster, paddy straw and milky mushrooms are grown seasonally in the tropical / subtropical areas from April to October. The areas where these mushrooms are popularly grown are Orissa, Maharashtra, Tamil Nadu, Kerala, Andhra Pradesh, Karnataka and North Eastern region.

Present production of white button mushroom is about 85,000 tons and of other mushrooms is about 15,000 tons.



Mushroom growing is a highly labor-oriented venture. Labor availability is no constraint in the country. Easy availability of raw materials and labor make mushroom growing economically profitable in India.

Some important reasons for low production of mushroom in India are late start, low domestic demand, inadequate R & D support and limited government patronage. Among the states, Haryana, Himachal Pradesh, Uttar Pradesh, Punjab and Tamil Nadu are major contributors to

Indian production. The country is likely to cross 250,000 tons by 2010. Even if slight deceleration in growth rate in India is predicted, a production target of 0.5 mio tons by 2015 and 1 mio tons by 2020 and 2.0 mio tons by 2025 is achievable.

The per capita consumption of mushroom in India is a dismal 20-25 g as compared to 2-3 kg in USA and Europe. Presently fresh/canned mushrooms are available in all the towns/cities.

Low consumption in India could be attributed to low availability, poor purchasing power, little awareness about its nutritional and medicinal value and taboos and superstitions attached to mushrooms in some parts of the country; but it is basically the problem of low per capita availability. (Source: National Research Centre for Mushroom)

Table 2.14 – Mushroom - area, production and productivity over years

Year	Production	Productivity
	Tons	kg / 100kg substrate
1980	3,000	12
1990	5,000	14
1995	25,000	18
2000	45,000	22
2005	80,000	25
2010*	250,000	26
2015*	500,000	28
2020*	1,000,000	30
2025*	2,000,000	32
* Projections		
Source: National Research Centre For Mushroom		

2.6 Banana

India produces about 18.7 mio tons of bananas every year.

Table 2.15 – Banana - area, production and productivity over years

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
1991-92	383.9	7,790	20.3
1992-93	396.2	10,460	26.4
1993-94	431.7	11,901	27.6
1994-95	444.4	13,168	29.6
1995-96	433.0	13,095	30.2
1996-97	424.6	12,440	29.3
1997-98	449.1	13,340	29.7
1998-99	464.3	15,073	32.5
1999-00	490.7	16,814	34.3
2000-01	469.7	14,137	30.1
2001-02	466.2	14,210	30.5
2002-03	475.3	13,304	28.0
2003-04	498.6	13,857	27.8
2004-05	535.0	16,328	30.5
2005-06	565.1	18,702	33.1
Source: Indian Horticulture Database 2006			

Tamil Nadu, Maharashtra, Gujarat, Andhra Pradesh, Karnataka and Bihar are the leading states for banana production in the country, contributing to about 83 per cent of the national production.

There has been a significant increase in production of banana during the last 25 years while the last decade has witnessed a steep growth due to banana research and development. The area has increased from 200,000 Ha in early 70's to 490,000 Ha in 2000's, while banana production has taken a giant leap by 500 per cent from 3 million tons to 18.7 mio tons. The productivity has also increased from a meager 9 tons to 33.1 tons, while in some states; the productivity is as high as 50 tons.

This could be achieved due to availability of high yielding genetic material especially Dwarf Cavendish group of bananas, improved production system and adoption of efficient protection technologies for the control of major pests and diseases under different climatic conditions.

Banana production as percentage of total fruits production has increased from 27.2 per cent in 1991-92 to 31.8 per cent in 2005-06. Productivity has also increased from 20.3 tons / Ha in 1991-92 to 33.1 tons / Ha in 2005-06.

Table 2.16 – Banana - area, production and productivity by different states

State	Area			Production			Productivity		
	000 Ha			000 Tons			Tons / Ha		
	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06
Tamil Nadu	71.1	81.5	94.6	2,515	3,462	4,648	35.4	42.5	49.1
Maharashtra	71.1	72.2	73.2	4,469	4,535	4,609	62.8	62.9	63.0
Gujarat	35.2	46.3	49.2	1,403	1,979	2,499	39.9	42.7	50.8
Andhra Pradesh	53.2	53.5	61.1	1,224	1,230	1,529	23.0	23.0	25.0
Karnataka	50.7	54.8	56.4	1,238	1,345	1,399	24.4	24.5	24.8
Bihar	27.7	28.0	28.0	444	920	959	16.0	32.9	34.3
Kerala	55.9	58.9	56.2	442	475	443	7.9	8.1	7.9
Assam	43.0	42.1	47.0	595	581	699	13.8	13.8	14.9
Madhya Pradesh	16.0	16.5	15.4	481	660	616	30.1	40.0	40.0
West Bengal	25.7	26.6	27.8	502	513	545	19.5	19.2	19.6
Others	49.0	54.6	56.2	546	629	757	#	11.5	13.5
Total	498.6	535.0	565.1	13,857	16,328	18,702			

Source: Indian Horticulture Database 2006

Table 2.17 – Banana cultivars grown and peak season in key banana states

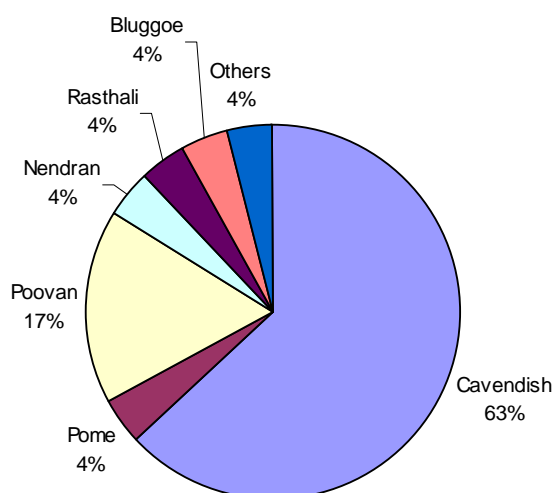
State	Cultivars	Peak Season
Tamil Nadu	Virupakshi, Robusta, Red Banana, Poovan, Rasthali, Nendran, Monthan, Karpuravalli, Sakkai, Peyan, and Matti	Round the year
Maharashtra	Dwarf Cavendish, Basrai, Robusta, Lal Velchi, Safed Velchi, Rajeli Nendran	Round the year
Gujarat	Dwarf Cavendish, Lacatan, Harichal (Lokhandi), and Gandevi Selection	September-November

Andhra Pradesh	Dwarf Cavendish, Robusta, Rasthali, Amritpant, Thellachakrakeli, Karpoora Poovan, Chakrakeli, Monthan and Yenagu Bontha	Round the year
Karnataka	Dwarf Cavendish, Robusta, Poovan, Rasabale, Rasthali, Monthan and Elakkibale	Round the year
Bihar	Dwarf Cavendish, Alpon, Chinia, Chini Champa, Malbhog, Muthia, Kothia and Gauria	September-November
Kerala	Nendran (Plantain), Palayankodan (Poovan), Rasthali, Monthan and Red Banana	Round the year

Source: Indian Horticulture Database 2006

India is home of wide range of *Musa* cultivars with varying genomic status with diverse agro-climatic conditions, which has encouraged the development and sustenance of large number of varieties catering to local needs. Though, more than 20 varieties have been grown commercially, Cavendish groups form the main stay of Indian banana Industry, owing to its high yield, wide market acceptability, short crop duration and high economic returns per unit area. Poovan is another cultivar grown commercially in different regions for its wider adaptability and tolerance to drought and diseases. Rasthali is grown in some specific regions due to its premium price in the market. Ney Poovan is also grown commercially in many parts of the country. Virupakshi, Monthan, Karpuravalli and Chakkia varieties are also grown to a large extent in some states. Nendran is specially grown in Kerala and Tamil Nadu due to local preference. The varietal situation prevailing in different states/ regions indicates regional adaptation, sustainability and preferences. (Source: National Research For Banana)

Chart 2.1 – Production (%) of different banana cultivars grown in India



Source: National Research Centre for Banana

2.7 Mango

India produces about 12.5 mio tons of mangoes every year.

Table 2.18 – Mango – area, production and productivity over years

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
1991-92	1,077.6	8,716	8.1
1992-93	1,136.7	9,223	8.1
1993-94	1,217.4	10,113	8.3
1994-95	1,228.3	10,993	9.0
1995-96	1,283.1	10,811	8.4
1996-97	1,344.9	9,981	7.4
1997-98	1,384.9	10,234	7.4
1998-99	1,401.6	9,782	7.0
1999-00	1,486.9	10,504	7.1
2000-01	1,519.0	10,057	6.6
2001-02	1,575.8	10,020	6.4
2002-03	1,623.4	12,733	7.8
2003-04	1,906.7	11,490	6.0
2004-05	1,970.4	11,830	6.0
2005-06	2,020.6	12,538	6.2

Source: Indian Horticulture Database 2006



Table 2.19 – Mango – area, production and productivity by different states

State	Area			Production			Productivity		
	000 Ha			000 Tons			Tons / Ha		
	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06
Andhra Pradesh	402.2	391.9	399.3	3,217	3,135	3,194	8.0	8.0	8.0
Uttar Pradesh	250.5	247.0	251.5	2,100	2,586	2,673	8.4	10.5	10.6
Karnataka	116.3	120.8	124.5	1,111	1,189	1,237	9.6	9.8	9.9
Bihar	140.0	140.1	140.2	1,540	866	1,223	11.0	6.2	8.7
Gujarat	69.9	89.7	96.0	495	729	772	7.1	8.1	8.0
Maharashtra	425.8	432.7	444.5	630	634	639	1.5	1.5	1.4
Tamil Nadu	114.9	118.4	125.1	615	539	538	5.4	4.6	4.3
West Bengal	67.8	69.1	70.1	406	461	513	6.0	6.7	7.3
Kerala	85.4	90.6	88.0	384	525	511	4.5	5.8	5.8
Orissa	115.1	120.3	125.3	405	416	429	3.5	3.5	3.4
Others	118.8	149.7	156.2	586	749	809	4.9	5.0	5.2
	1,906.7	1,970.3	2,020.7	11,490	11,830	12,538			

Source: Indian Horticulture Database 2006

Even though mango production has been rising steadily, mango has been losing out to other

fruits. Share of mango production in total fruit production has reduced from 30.4 per cent in 1991-92 to 21.3 per cent in 2005-06.

Fall in mango productivity (except in Uttar Pradesh) is also a cause for concern. It shows that mango growers (except in Uttar Pradesh) have not been investing adequately in their gardens.

In terms of area under mangoes, Maharashtra has the first place. Yet, it comes at sixth place in terms of production. Low productivity in Maharashtra offers great scope for improvement, especially since Maharashtra has the best urban market (Mumbai) and also has good infrastructure for exports.

Top six states for mango production – Andhra Pradesh, Uttar Pradesh, Karnataka, Bihar, Gujarat and Maharashtra – account for about 78 per cent of national production of mangoes.

Table 2.20 – Commercial mango varieties grown and peak season in key mango states

State	Cultivars	Peak Season
Andhra Pradesh	Banganapalli, Suvarnakha, Neelum and Totapuri	April-May
Uttar Pradesh	Bombay Green, Chausa, Dashehari, and Langra	June-August
Karnataka	Alphonso, Totapuri, Banganapalli, Pairi, Neelum and Muloga	May-June
Bihar	Bombay Green, Chausa, Dashehari, Fazli, Gulabkhas, Kishen Bhog, Himsagar, Zardalu, and Langra	June
Gujarat	Kesar, Alphonso, Rajapuri, Jamadar, Totapuri, Neelum, Dashehari, and Langra	May-June
Maharashtra	Alphonso, Kesar, and Pairi	April-May
Tamil Nadu	Alphonso, Totapuri, Banganapalli, and Neelum	May-June
West Bengal	Fazli, Gulabkhas, Himsagar, Kishenbhog, Langra, and Bombay Green	June-July

Source: Indian Horticulture Database 2006

Mango is a summer fruit. Some varieties ripen at the beginning of summer while some others are ready only towards the end of summer. In some coastal states, where winter months are also quite warm, mangoes start arriving early. For example, it is possible to get mangoes in Goa in January. Mango season continues till August-September in hilly states like Arunachal Pradesh, Uttaranchal, Manipur etc.

In addition to the varieties mentioned above, some hybrid varieties have been developed. Common hybrid varieties are Mallika, Amrapali, Ratna and Arka Puneet.

Mangoes have a short shelf life. When stored at 13⁰ Celsius, relative humidity 85-90%, mangoes may be stored for 2-3 weeks.

2.8 Citrus fruits

Citrus fruits include lime / lemon, *mosambi* (sweet lime) and orange (mandarin).

Table 2.21 – Citrus fruit – area, production and productivity over years

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
1991-92	386.9	2,822	7.3
1992-93	369.6	2,979	8.1
1993-94	433.8	3,912	9.0
1994-95	443.4	3,701	8.3
1995-96	454.1	3,798	8.4
1996-97	474.7	4,456	9.4
1997-98	484.7	4,311	8.9
1998-99	488.1	4,575	9.4
1999-00	526.9	4,651	8.8
2000-01	497.0	4,386	8.8
2001-02	618.5	4,789	7.7
2002-03	562.6	5,677	10.1
2003-04	683.3	5,787	8.5
2004-05	708.2	5,933	8.4
2005-06	748.8	6,326	8.4

Source: Indian Horticulture Database 2006

Table 2.22 – Citrus fruit – area, production and productivity by different states

State	Area			Production			Productivity		
	000 Ha			000 Tons			Tons / Ha		
	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06
Andhra Pradesh	161	160	166	2,132	2,122	2,235	13.2	13.3	13.4
Maharashtra	233	238	249	1,394	1,438	1,469	6.0	6.0	5.9
Punjab	20	23	26	280	312	365	13.7	13.9	14.0
Gujarat	22	28	31	225	285	303	10.1	10.2	9.9
Madhya Pradesh	16	17	17	258	265	267	16.0	16.0	16.0
Rajasthan	11	12	13	85	90	238	7.5	7.7	18.7
Karnataka	12	11	11	222	223	232	18.1	20.8	21.0
Orissa	26	26	27	194	205	205	7.5	7.7	7.7
Manipur	27	27	27	168	168	168	6.2	6.2	6.2
Assam	16	17	19	142	143	160	8.7	8.6	8.5
Uttaranchal	12	26	26	195	122	123	15.7	4.7	4.7
Bihar	17	17	17	134	123	112	8.0	7.3	6.7
Others	109	113	122	358	502	450	3.3	4.5	3.7
Total	683	712	749	5,787	5,997	6,326			

Source: Indian Horticulture Database 2006

Andhra Pradesh and Maharashtra contribute almost 59 per cent of national production of citrus fruits. Punjab, Gujarat and Madhya Pradesh have been growing fast.

Of the major citrus states, productivity is lowest in Maharashtra. Karnataka tops in productivity even though its production is from a very small area. Madhya Pradesh is next on the productivity list and has shown consistent performance.

2.9 Papaya

India produces about 2.3 mio tons of papayas every year.

Table 2.23 – Papaya – area, production and productivity over years

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
1991-92	45.2	805	17.8
1992-93	47.4	804	17.0
1993-94	55.9	1,266	22.7
1994-95	61.0	1,373	22.5
1995-96	61.0	1,330	21.8
1996-97	63.0	1,299	20.6
1997-98	69.9	1,619	23.2
1998-99	67.7	1,582	23.4
1999-00	60.5	1,666	27.5
2000-01	70.2	1,796	25.6
2001-02	73.7	2,590	35.1
2002-03	68.0	2,147	31.6
2003-04	58.2	1,692	29.1
2004-05	72.8	2,535	34.8
2005-06	73.1	2,317	31.7
Source: Indian Horticulture Database 2006			

Andhra Pradesh, Gujarat, West Bengal, Karnataka, Assam and Chhatisgarh account for almost 90 per cent of papaya production of the country.

Table 2.24 – Papaya – area, production and productivity by different states

State	Area			Production			Productivity		
	000 Ha			000 Tons			Tons / Ha		
	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06
Andhra Pradesh	8.6	11.4	12.9	660	875	1,009	76.8	76.5	78.2
Gujarat	4.9	6.8	7.7	191	269	323	39.0	39.7	41.8
West Bengal	8.5	8.7	9.5	246	253	264	28.9	29.1	27.7
Karnataka	3.2	3.4	3.5	222	221	230	69.3	65.1	66.1
Assam	7.1	6.8	8.1	104	99	131	14.7	14.7	16.1
Chhatisgarh	#	3.7	4.2	#	26	119	#	7.0	28.2
Kerala	17.7	17.7	18.9	81	81	86	4.6	4.6	4.5
Tamil Nadu	0.4	0.3	0.3	71	54	54	178.0	182.0	182.0
Madhya Pradesh	0.9	0.9	0.7	24	25	19	26.6	27.0	27.0
Others	6.9	13.1	7.3	93	633	83	13.5	48.3	11.4
	58.2	72.8	73.1	1,692	2,535	2,317			
# = included in others									
Source: Indian Horticulture Database 2006									

Main varieties of papaya grown in India are Honey Dew, Coorg Honey Dew, Washington, Pusa Delicious, Pusa Majestic, Pusa Dwarf, Pusa Giant Co. 1 to Co. 7, Surya, Pusa Nanha, Pink Flesh Sweet, Pant 1 Sunrise Solo, Taiwan etc.

2.10 Apple

India produces about 1.8 mio tons of apples every year..

Table 2.25 – Apple – area, production and productivity over years

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
1991-92	194.5	1,147.7	5.9
1992-93	191.2	1,168.2	6.1
1993-94	205.0	1,298.3	6.3
1994-95	210.7	1,183.1	5.6
1995-96	217.1	1,214.6	5.6
1996-97	222.7	1,308.4	5.9
1997-98	227.7	1,320.6	5.8
1998-99	231.4	1,380.4	6.0
1999-00	238.3	1,047.4	4.4
2000-01	239.8	1,226.6	5.1
2001-02	241.6	1,158.4	4.8
2002-03	193.1	1,348.4	7.0
2003-04	201.2	1,521.6	7.6
2004-05	230.7	1,739.0	7.5
2005-06	234.7	1,755.7	7.5

Source: Indian Horticulture Database 2006



Table 2.26 – Apple – area, production and productivity by different states

State	Area			Production			Productivity		
	000 Ha			000 Tons			Tons / Ha		
	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06
Jammu & Kashmir	100.7	107.9	107.9	1041.5	1093.3	1093.3	10.3	10.1	10.1
Himachal Pradesh	84.1	86.2	88.6	459.5	527.6	540.4	5.5	6.1	6.1
Uttaranchal	8.2	27.8	28.8	11.3	108.5	112.3	1.4	3.9	3.9
Arunachal Pradesh	7.9	8.4	9.1	9.3	9.5	9.6	1.2	1.1	1.1
Others	0.3	0.3	0.3	0.0	0.1	0.0	0.1	0.4	0.0
Total	201.2	230.6	234.7	1521.6	1739.0	1755.6			

Source: Indian Horticulture Database 2006

Apples are grown only in northern states of India. In 2003-04, the two states of Jammu & Kashmir and Himachal Pradesh accounted for 98.65 per cent of national production. In the past two years, Uttaranchal has been making its presence felt in apple markets. So, the share of Jammu & Kashmir and Himachal Pradesh went down to about 93 per cent in 2005-06.

Apples are harvested during June-November. Peak season for Jammu & Kashmir is Sept-Oct, while it is Aug-Sept for Himachal Pradesh. For Uttaranchal it is July to mid-September. For Arunachal Pradesh it is mid-September to mid-October.

Table 2.27 – Main varieties of apples grown in major apple states

State	Early Season	Mid Season	Late Season
Jammu & Kashmir	Irish Peach, Benoni	Starkrimson, American Mother, Razakwar, Jonathan (P), Cox's Orange, Pippin (P), Red Gold, Queen's Apple, Rome Beauty, Scarlet Siberian	King Pippin, American Apirouge, Kerry Pippin, Sunhari Chamure, Golden Delicious (P), Red Delicious, Ambri Baldwin, Yellow Newton (P)
Himachal Pradesh	Tydemans Early (P), Michael Molies Delicious, Schlomit	Starking Delicious, Red Delicious, Richared Vance Delicious, Top Red, Lord Lam Bourne (P), Red Chief, Oregon Spor, Redspur, Red Gold (P)	Golden Delicious (P), Yellow Newton (P), Winter Banana, Granny Smith (P)
Uttaranchal	Early Shanburry (P), Fenny Benoni, Chaubattia Princess	Red Delicious, Starking Delicious, McIntosh (P), Cortland, Golden Delicious (P)	Rymer, Buckingham (P)
Source: Indian Horticulture Database 2006 (P) = Pollinizer			

2.11 Grapes

India produces about 1.6 mio tons of grapes every year.

Table 2.28 – Grapes – area, production and productivity over years

Year	Area	Production	Productivity
	000 Ha	000 Tons	Tons / Ha
1991-92	32.4	668	20.6
1992-93	34.0	653	19.2
1993-94	38.8	703	18.1
1994-95	42.1	673	16.0
1995-96	35.6	604	17.0
1996-97	42.9	1,135	26.4
1997-98	40.8	969	23.8
1998-99	42.6	1,083	25.4
1999-00	44.3	1,138	25.7
2000-01	45.2	1,057	23.4
2001-02	47.5	1,184	24.9
2002-03	52.1	1,248	24.0
2003-04	57.8	1,475	25.5
2004-05	60.5	1,565	25.9
2005-06	64.3	1,631	25.4
Source: Indian Horticulture Database 2006			

Grapes are produced in India primarily for table consumption. In recent years, production of

wine grapes has been increasing due to the efforts of wine companies.

Table 2.29 – Grapes – area, production and productivity by different states

State	Area			Production			Productivity		
	000 Ha			000 Tons			Tons / Ha		
	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06
Maharashtra	41.4	43.8	45.1	1,163.1	1,233.9	1,275.0	28.1	28.2	28.3
Karnataka	9.1	10.1	10.4	170.9	185.8	193.2	18.8	18.4	18.5
Tamil Nadu	2.5	2.5	2.6	59.9	69.7	84.8	24.0	28.2	32.6
Andhra Pradesh	1.8	1.9	1.9	35.0	37.8	40.3	19.4	20.0	21.2
Punjab	1.2	1.2	1.1	33.7	32.3	30.2	28.1	27.0	27.0
Haryana	0.9	0.1	0.1	8.5	1.4	3.3	9.4	10.5	33.0
Madhya Pradesh	0.1	0.1	0.1	2.3	2.4	2.6	23.0	25.0	25.0
Mizoram	0.5	0.5	0.5	0.6	0.6	0.6	1.2	1.2	1.2
Jammu & Kashmir	0.2	0.2	0.2	0.3	0.3	0.3	1.5	1.5	1.5
Others	0.1	0.2	2.2	0.5	0.5	0.3	5.0	3.2	0.1
	57.8	60.6	64.2	1,474.8	1,564.7	1,630.6			

Source: Indian Horticulture Database 2006

Maharashtra, Karnataka, Tamil Nadu, Andhra Pradesh and Punjab produce almost 99.5 per cent of grapes produced in the country, while the two western states of Maharashtra and Karnataka produce about 90 per cent of grapes in India. It is natural that the two states are now recognized as the wine states of India.



Thompson Seedless Grapes

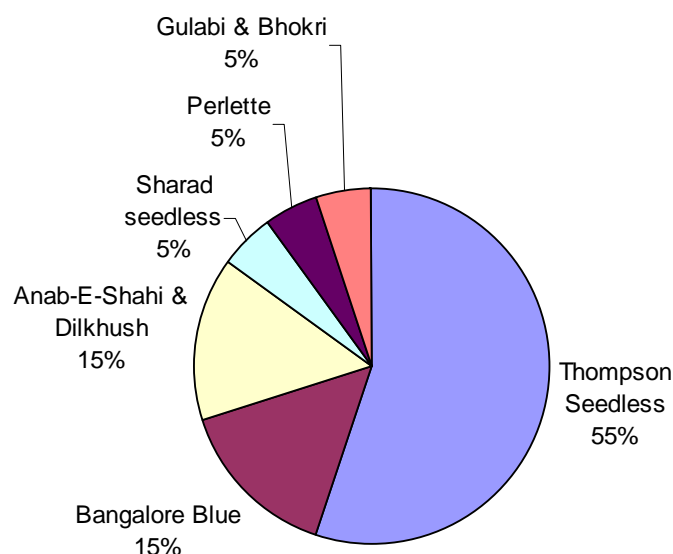
Table 2.30 – Grouping of commercial varieties of grapes grown in India

Category	Commercial Varieties
Colored seeded	Bangalore Blue, Gulabi (Muscat)
Colored seedless	Beauty seedless, and Sharad seedless
White seeded	Anab-e-Shahi, Dilkhush (clone of Anab-e-Shahi)
White seedless	Perlette, Pusa seedless, Thompson seedless and its clones Tas-A-Ganesh, Sonaka and Manik Chaman

Source: Indian Horticulture Database 2006

Peak season for harvesting of grapes in Maharashtra and Karnataka is during February-April.

Chart 2.2 – Approximate area under different varieties of grapes in India



Source: Indian Horticulture Database 2006

2.12 Pomegranate

India produces about 850,000 tons of pomegranates every year.

Table 2.31 – Pomegranate – area, production and productivity in different states

State	Area			Production			Productivity		
	000 Ha			000 Tons			Tons / Ha		
	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06	2003-04	2004-05	2005-06
Maharashtra	84.3	88.5	91.0	533.0	568.2	593.6	6.3	6.4	6.5
Karnataka	11.2	12.0	12.4	116.9	133.2	138.6	10.4	11.1	11.2
Andhra Pradesh	0.0	5.8	7.7	0.0	47.8	65.0	0.0	8.2	8.4
Gujarat	0.0	4.1	3.8	0.0	38.4	38.2	0.0	9.4	10.1
Tamil Nadu	0.5	0.4	0.4	12.9	11.1	11.1	25.8	27.8	25.0
Rajasthan	0.4	0.4	0.3	1.8	1.7	1.8	4.5	4.3	6.0
Chhatishgarh	#	#	0.1	#	0.2	0.6	0.0	#	6.7
Himachal Pradesh	0.5	0.6	0.6	0.3	0.1	0.2	0.6	0.2	0.4
Total	96.9	111.8	116.3	664.9	800.7	849.1			
# = included in others									
Source: Indian Horticulture Database 2006									



Maharashtra, Karnataka, Andhra Pradesh and Gujarat account for about 98 per cent of India's production of pomegranates.

Harvesting season for Maharashtra and Gujarat is round the year. In Andhra Pradesh, peak harvesting season is from mid-April to May, while in Karnataka it is during February and March.

2.13 Coconut

India produces about 15.8 bio coconuts every year. India ranks third in world in coconut production.

Table 2.32 – Coconut – area, production and productivity over years

Year	Area	Production	Yield
	Mio Hectares	Mio Nuts	Nuts / hectare
1950-51	0.62	3,282	5,238
1960-61	0.72	4,639	6,466
1970-71	1.05	6,075	5,811
1980-81	1.08	5,942	5,485
1990-91	1.51	9,700	6,407
1995-96	1.83	12,952	7,074
2000-01	1.82	12,678	6,951
2001-02	1.93	12,963	6,709
2002-03	1.92	12,535	6,523
2003-04	1.93	12,178	6,298
2004-05	1.94	12,833	6,632
2005-06	1.95	14,811	7,608
2006-07	1.94	15,840	8,165

Source: Coconut Development Board



Till 1980, Kerala used to lead in coconut production. In the past two decades other states have started production using high yielding varieties. The new entrants have higher productivity than Kerala, where old methods and planting materials are dominating.

Table 2.33 – Coconut – area, production and productivity in different states

State / Union Territory	Area	Production	Productivity	Area	Production	Productivity
	000 Ha	Mio Nuts	Nuts / Ha	000 Ha	Mio Nuts	Nuts / Ha
	2005-06			2006-07		
Kerala	898	6,326	7,046	871	6,054	6,951
Tamil Nadu	371	4,867	13,133	375	5,430	14,495
Karnataka	385	1,210	3,139	401	1,625	4,052
Andhra Pradesh	104	892	8,577	105	1,326	12,629
West Bengal	25	324	12,992	25	359	14,307
Orissa	51	275	5,406	51	276	5,408
Maharashtra	18	273	15,189	21	175	8,338
Assam	19	205	10,728	19	153	8,053
Gujarat	16	138	8,433	16	138	8,433
Goa	25	125	4,953	26	127	4,969
A & N Islands	26	87	3,416	21	89	4,159
Lakshadweep	3	53	19,630	3	53	19,630
Pondicherry	2	28	13,286	2	28	13,286
Tripura	3	7	2,121	3	7	2,121
Nagaland	1	1	1,333	1	0	222
All India	1,947	14,811	7,608	1,940	15,840	8,165
Source: Coconut Development Board						

Coconut is grown only in coastal regions. All the states mentioned above are coastal states. However, the vast difference in coconut production among various coastal states is indeed notable.

Kerala and Tamil Nadu accounted for more than 75 per cent of the country's coconut production in 2005-06. However, in 2006-07, the share of the two states dropped to about 72 per cent. Both are neighbouring states, yet the productivity among the two states is vastly different.

Coconut fruit in fresh form is used as a vegetable, as an ingredient in large number of South Indian recipes, as a table fruit and for religious ceremonies. Coconut is also used in dried form as copra.



Coconut oil is extensively used for cooking in states where coconut is grown, but especially in Kerala. Coconut oil is also used as hair oil. There have been attempts in recent years to preserve and bottle coconut water.

2.14 Areca nut



Areca nuts are also called betel nuts.

Table 2.34 – Arecanut - area, production and productivity over years

Year	Area Harvested	Production	Yield
	Ha	Tons	Kg/Ha
2003	353,400	415,900	1,177
2004	365,000	439,200	1,203
2005	364,300	452,700	1,243
2006	381,100	483,100	1,268
2007	397,000	520,000	1,310
Source: FAO			

2.15 Walnut



Table 2.35 – Area, production and productivity of walnuts with shell over years

Year	Area Harvested	Production	Yield
	Ha	Tons	Kg/Ha
2003	30,500	31,000	1,016
2004	30,500	34,000	1,115
2005	30,800	32,000	1,039
2006	30,800	36,000	1,169
2007	30,800	34,000	1,104
Source: FAO			

Walnut is mainly grown in Jammu & Kashmir, Himachal Pradesh, Uttar Pradesh and Arunachal Pradesh.

2.16 Cashew nut



Table 2.36 – Cashew nuts with shell – area, production and productivity over years

Year	Area Harvested	Production	Yield
	Ha	Tons	Kg/Ha
2003	770,000	500,000	649
2004	780,000	535,000	686
2005	820,000	544,000	663
2006	837,000	573,000	685
2007	854,000	620,000	726
Source: FAO			

Indian cashew processing industry has an installed capacity to process around 1.2 million tons of raw cashew nuts. But, indigenous availability of raw nut has remained at around half of annual requirement. As a result, imports have been increasing consistently.

India, which had been the pioneer and topper in raw cashew nut production in the world until recently, has lost its position to Vietnam and Nigeria and occupies the third place. However, it continues to keep its top position in processing and exports using imported raw nuts.

Table 2.37 – Area, production and productivity in major cashew producing countries

Country	Area	Production	Productivity
	000 Ha	000 Tons	kg/Ha
Viet Nam	348	961	2,761
Nigeria	330	660	2,000
India	854	620	726
Brazil	720	176	245
Indonesia	620	146	235
Côte d'Ivoire	195	130	667
Philippines	28	118	4,214
Figures relate to year 2007			
Source: FAO			

Vietnam, Nigeria and India together produce about 70 per cent of world production of cashew nuts with shell. Vietnam and Nigeria are new entrants to cashew cultivation. The area under cashew in the two countries is less than the area in India. Higher productivity has enabled Vietnam and Nigeria to overtake India.

Other countries with high productivity are Peru, Kenya, Mexico and Malaysia. It will be interesting to watch these countries in the next few years as they spread their efficient cashew cultivation to bigger areas.

Table 2.38 – Area, production and productivity in cashew producing countries arranged in descending order of productivity

Country	Area	Production	Productivity
	000 Ha	000 Tons	kg/Ha
Peru	0.35	2	6,714
Kenya	2.00	10	5,000
Philippines	28.00	118	4,214
Viet Nam	348.00	961	2,761
Mexico	1.35	3	2,348
Nigeria	330.00	660	2,000
Malaysia	7.00	13	1,857
Belize	1.00	2	1,540
Honduras	1.30	2	1,462
Mozambique	50.00	58	1,160
Tanzania, United	90.00	92	1,022
Thailand	24.00	24	1,000
Togo	0.31	0	1,000
El Salvador	3.70	3	730
India	854.00	620	726
Guinea	1.25	1	720
Figures relate to year 2007			
Source: FAO			

Table 2.39 – Cashew nuts with shell – area, production and productivity in different states

State	Area	Production	Yield
	000 Ha	000 Tons	Kg / Ha
Maharashtra	160.00	174	1,200
Kerala	102.00	64	900
Andhra Pradesh	150.00	88	840
Orissa	126.00	74	810
Tamil Nadu	105.00	53	610
Karnataka	95.00	43	680
Goa	55.00	26	660
West Bengal	9.00	8	800
Others	18.00	14	800
All India	820.00	544	810
Figures relate to year 2004-05			
Source: Ministry of Agriculture, Government of India			

Maharashtra leads in production as well as in area covered. Maharashtra scores over all other states in productivity, but it has a long way to go before it reaches the level of world leaders in productivity.

In India, cashew is mostly planted in the months of June, July and August before the onset of monsoon. The nuts require around 8 to 10 weeks to mature. Cashew apple and cashew nut shed off themselves when they reach the stage of maturity. The nuts are manually collected by hand from the ground and the apples still on trees are hand picked.

3. Exports Summary

3.1. Vegetables under Chapter 07 of HS Code

Table 3.1 – Exports of all vegetables under Chapter 07 of HS Code

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
7031010	ONIONS FRESH OR CHILLED	11,633,057	7,493,091
7132000	CHICKPEAS (GARBANZOS) DRIED & SHLD	2,173,051	4,410,793
7122000	ONIONS DRIED	1,573,529	1,973,511
7114000	CUCUMBERS & GHERKINS PROVISIONALLY PRESVD	2,090,357	1,030,945
7099050	MIXED VEGETABLES	1,283,018	818,089
7020000	TOMATOES FRESH OR CHILLED	341,020	797,541
7019000	POTATOES FRESH OR CHILLED OTHER THAN SEEDS	577,010	350,440
7096010	GREEN CHILLY	221,638	323,679
7099090	OTHER VEGETABLES FRESH OR CHILLED N.E.S.	582,527	256,561
7133990	OTHERS	110,257	220,838
7109000	MIXTURE OF VEGETABLES FRZN	324,684	214,028
7099030	PUMPKINS	63,594	200,150
7123100	MUSHROOMS OF GENUS AGARIGVS, DRIED, WHILE, CT, SLCED, BRKN	336,147	181,895
7123900	OTHERS (E.G. TRUFFLES ETC.) DRIED.	35,944	101,268
7108090	OTHERS	107,419	70,128
7101000	POTATOES COOKED OR UNCOOKED, FROZEN	89,454	57,914
7129090	OTHERS, DRIED	63,871	38,218
7104000	SWEET CORN FRZN	3,391	35,219
7119010	GREEN PEPPER IN BRINE	50,717	35,103
7115100	MUSHROOMS OF GENUS AGARICUS PROVISIONALLY PRESRVD	12,330	31,417
7139099	OTHER DRIED & SHLD LUGUMINOUS VEGTBLS, OTHRTHAN SPLIT.	1,222,996	23,078
7093000	AUBERGINES (EGG PLANTS) FRSH OR CHLD	96,912	19,006

(Table 3.1 continued on next page)

Table 3.1 – Exports of all vegetables under Chapter 07 of HS Code (Continued)

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
7129020	DEHYDRATED GARLIC POWDER	43,706	18,211
7139091	OTHR DRIED & SHLD LUGUMINOUS VEGTBLS, SPLIT	193,480	18,048
7129050	MARJORAM, OREGANO	16,944	17,712
7119020	ASSORTED CANNED VEGETABLES	38,370	16,036
7141000	MANIOC (CASSAVA)	1,928	15,636
7129030	DEHYDRATED GARLIC FLAKES	10,863	15,067
7082000	BEANS SHLD OR UNSHLD FRSH OR CHLD	64,666	11,695
7081000	PEAS SHLD OR UNSHLD FRSH OR CHLD	27,303	11,693
7095100	MUSHROOMS FRESH OR CHILLED	42,744	11,391
7102100	PEAS SHELLLED OR UNSHELLED, FRZN	28,658	10,601
7129040	DRIED GARLIC	6,575	10,593
7051900	OTHER LETTUCE FRSH OR CHLD	10,636	10,481
7011000	POTATO SEEDS FRESH OR CHILLED	32,993	10,282
7099040	GREEN PEPPER	19,105	10,251
7131000	PEAS (PISUM SATIVUM) DRIED & SHLD	35,754	10,106
7119090	OTHR VEGETABLES PROVISIONALLY PRESERVED	22,331	9,536
7102200	BEANS SHELLLED OR UNSHELLED, FRZN	10,610	9,220
7031020	SHALLOTS FRESH OR CHILLED	22,254	8,931
7096090	OTHERS,	30,303	8,868
7049000	KOHRBI, KALE & SMLR EDBL BRASSICAS, FRSH/CHLD	4,780	8,060
7069090	OTHER ROOTS FRSH OR CHLD	20,583	7,959
7099020	PLANTAIN (CURRY BANANA) FRSH OR CHLD	48,133	7,178
7139010	TUR	866,430	5,702
7103000	SPINACH FRZN	3,771	5,428
7149090	OTHR EDBL RTS & TBRS CONTG HGH STRCH/INULN	12,587	5,400
7070000	CUCUMBERS & GHERKINS FRSH OR CHLD	14,828	5,392
7102900	OTHR LEGUMINOUS VEGTBLS SHELD OR NT FRZN	19,812	5,143
7123200	WOOD EARS (AGRICULARIA SPP.), DRIED	12,630	4,613
7095900	OTHER MUSHROOMS (EXCLDNG GENUS, AGARICUS) FRSH OR CHLD	31,232	4,541
7032000	GARLIC FRESH OR CHILLED	193,060	4,020

(Table 3.1 continued on next page)

Table 3.1 – Exports of all vegetables under Chapter 07 of HS Code (Continued)

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
7108010	TARRAGON	2,889	3,793
7134000	LENTILS (MOSUR), DRIED & SHLD	3,218,694	2,608
7142000	SWET POTATOES	4,798	2,507
7149010	SAGO PITH	4,207	2,379
7095200	TRUFFLES FRESH OR CHILLED	0	2,292
7115900	OTHERUSHROOMS & TRUFFLES PROVISNLY PRESRVD	5,524	2,006
7052900	OTHER CHICORY FRSH OR CHLD	150	1,818
7061000	CARROTS & TURNIPS FRSH OR CHILLED	1,932	1,699
7091000	GLOBE ARTICHOKE FRESH OR CHILLED	1,326	1,668
7051100	CABAGE LETTUCE(HEAD LETTUCE)FRSH OR CHLD	2,105	1,231
7042000	BRUSSELS SPROUTS FRESH OR CHILLED	1,184	1,139
7069030	SALAD BEET ROOT FRSH OR CHLD	327	1,125
7123300	JELLY FUNG DRIED	0	784
7133300	KIDNY BENS INCL WHITE PEA BENS DRIED & SHLD	1,325	736
7129060	POTATOES	3,192	695
7133100	BEANS OF THE SPP VIGNA MUNGO, HEPPER OR VIGNA RADIATA, WILCZEK DRIED & SHLD	14,415	623
7099010	OLIVES FRESH OR CHILLED	1,113	553
7039000	LEEK & OTHR ALIACOUS VEGTBLS FRSH OR CHLD	100	411
7092000	ASPARAGUS FRESH OR CHILLED	177	398
7089000	OTHR LEGMINOUS VGTBL W/N SHLD, FRSH/CHLD	2,350	386
7069010	HORSE RADISH	770	376
7133910	GUAR SEEDS	56,251	246
7097000	SPINACH FRSH/CHLD	312	244
7041000	CAULIFLOWRS & HEADED BROCCOLI FRSH OR SHLDCAULIFLOWRS & HEADE BROCCOLI, FRSH OR CHLD	359	146
7069020	OTHER RADISH	48	16
7133200	SMALL RED BEANS DRIED & SHLD	5,209	12
7135000	BROAD BEANS & HORSE BEANS DRIED & SHLD	2,078	8
7129010	ASPARAGUS DRIED	962	0
7094000	CELERY OTHER THAN CELERIA C FRSH OR CHLD	158	0
TOTAL	EDIBLE VEGETABLES AND CERTAIN ROOTS AND TUBERS.	28,211,948	19,010,608

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

From the above exhaustive list of items under Chapter 7, we have selected a few major items. The turnover of the selected items covers more than 95 per cent of the turnover of exports under the chapter.

Table 3.2 – Exports of major vegetables under Chapter 07 of HS Code



HS Code	Commodity Description	2004-05		2005-06		2006-07		April - Dec 07	
		QTY Tons	Value Rs. 000	QTY Tons	Value Rs. 000	QTY Tons	Value Rs. 000	QTY Tons	Value Rs. 000
0701	Potatoes Fresh or Chilled								
07019000	Potatoes fresh or chilled other than seeds	65,996	317,547	74,534	388,258	89,025	577,010	66,484	350,440
0702	Tomatoes Fresh or Chilled								
07020000	Tomatoes Fresh or Chilled	7,446	58,938	11,743	108,607	33,593	341,020	70,544	797,541
0703	Onions, Shallots, Garlic, Leeks & Other Alliaceous Vegetables, Fresh or Chilled								
07031010	Onions Fresh or Chilled	870,217	6,441,190	960,507	7,081,588	1,378,373	11,633,057	625,346	7,493,091
07032000	Garlic Fresh or Chilled	2,248	38,896	32,495	374,162	12,211	193,060	172	4,020
0709	Other Vegetables Fresh or Chilled								
07096010	Green chilly	7,952	90,921	8,765	148,259	18,188	221,634	20,343	323,679
07099050	Mixed Vegetables	28,833	479,872	22,768	452,288	50,993	1,283,018	33,336	818,089
07099090	Other vegetables fresh or chilled n.e.s.	18,566	187,297	17,664	273,065	20,613	582,463	13,681	256,561
0710	Vegetables Cooked or Not by Steaming / Boiling, Frozen								
07108090	Other vegetables frozen - others	986	41,916	1,232	51,125	2,509	107,396	1,787	70,128
07109000	Mixture of vegetables frozen	21,152	492,236	12,081	341,913	10,270	324,684	6,844	214,028
0711	Vegetables Provisionally Preserved but Unsuitable for Instant Consumption								
07114000	Cucumbers and gherkins provisionally preserved	43,135	913,502	85,777	1,757,256	89,509	2,090,357	44,913	1,030,945
0712	Dried Vegetables, Whole Cut, Sliced, Broken or in Powder Form								
07122000	Onions Dried	17,837	468,794	26,879	1,056,779	24,182	1,573,529	53,635	1,973,511
07123100	Mushrooms of genus Agarigvus, dried, w hole, cut, sliced or broken	107	211,866	129	309,829	114	336,147	60	181,895
0713	Dried Leguminous Vegetables Shld Whether or Not Skinned or Split								
07132000	Chickpeas (Garbanzos) dried & shelled	13,603	412,776	44,060	1,506,964	61,304	2,173,051	139,390	4,410,793
07133990	Other beans dried & shelled	2,867	45,323	3,827	85,862	3,091	110,257	6,232	220,838
07134000	Lentils (Mosur) dried & shelled	145,185	3,149,840	281,276	6,510,560	121,010	3,218,694	49	2,608
07139010	Other dried & shelled leguminous vegetables - Tur	25,005	502,662	25,391	663,222	22,662	866,430	216	5,702
07139091	Other dried & shelled leguminous vegetables, Split	7,284	178,014	9,883	295,991	7,552	193,481	406	18,048
07139099	Other dried & shelled leguminous vegetables, Other than split	77,117	1,729,521	74,742	1,987,548	35,317	1,222,996	844	23,078
Total for above items of Ch.7		1,355,536	15,761,113	1,693,756	23,393,276	1,980,515	27,048,284	1,084,281	18,194,994

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

Country-wise data in respect of each of the above items is given later in the report.

3.2. Fruits under Chapter 08 of HS Code

Table 3.3 – Exports of all fruits under Chapter 08 of HS Code

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
8013220	CASHEW KERNEL, WHOLE	23,375,397	15,124,622
8045040	MANGO PULP	5,058,279	3,945,570
8045020	MANGOES FRESH	1,419,395	1,173,329
8023200	SHELLED WALNUTS FRSH OR DRIED	1,153,742	909,873
8061000	GRAPES FRESH	3,005,849	708,251
8013210	CASHEW KERNEL, BROKEN	1,367,762	706,655
8109010	POMEGRANATES FRESH	795,731	417,836
8081000	APPLES FRSH	313,866	318,088
8134010	TAMARIND DRIED	304,905	241,487
8030000	BANANAS INCLUDING PLANTAINS FRSH OR DRIED	160,678	189,608
8045090	OTHR FRESH OR DRIED	455,038	169,082
8051000	ORANGES FRESH OR DRIED	291,386	160,588
8129010	MANGO SLICES IN BRINE	206,446	143,193
8055000	LEMONS & LIMES FRSH OR DRIED	140,390	118,142
8119090	OTHR FRUITS & NUTS W/N COKD, FRZN NOT CONTNG SUGR	99,950	116,216
8072000	PAPAWS (PAPAYAS) FRESH	116,011	85,572
8109020	TAMARIND FRESH	83,544	85,462
8129090	OTHER	94,989	83,084
8013100	CASHEW NUTS FRESH/DRIED IN SHELL	159,516	82,239
8045030	MANGOES SLICED DRIED	109,513	73,487
8059000	OTHER CITRUS FRUITS FRESH OR DRIED	127,759	69,340
8109090	OTHERS FRESH	116,377	63,163
8109030	SAPOTA (CHICO) FRESH	74,431	37,883
8045010	GUAVAS FRESH OR DRIED	77,253	36,306
8011990	OTHR COCONUTS EXCLDNG FRESH & DRIED	24,059	30,712
8029090	OTHER NUTS EXCLDNG BETEL NUTS, FRSH/DRIED	62,670	28,706
8043000	PINEAPPLES FRESH OR DRIED	36,096	28,320
8119010	OTHR FRUITS & NUTS W/N COKD, FRZN CNTNG SUGR	9,567	26,339
8013290	OTHER CASHEW KERNEL	9,144	22,654
8029011	BETEL NUT, WHOLE	52,834	20,349
8071100	WATER MELONS	66,722	17,868
8029012	BETEL NUT, SPLIT	10,544	17,291
8029019	OTHER BETEL NUTS	71,937	15,729

(Table 3.3 continued on next page)

Table 3.3 – Exports of all fruits under Chapter 08 of HS Code (Continued)

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
8134090	OTHERS FRUIT DRIED (EXCLDNG TAMARIND & SINGODA WHOLE	11,861	14,498
8112090	OTHR RASPBERS, BLACKBERS, MULBERS, LOGANBERS COOKED / UNCOOKED	8,697	13,491
8011100	COCONUT DESICCATED	7,217	13,307
8023100	WALNUTS FRSH OR DRIED IN SHELL	26,501	13,273
8011910	COCONUT FRESH	16,116	12,498
8011920	COCONUT ,DRIED	24,115	11,829
8140000	PEEL OF CITRS FRUIT/MELNS, FRSH, FRZN, DRIED / PROV SNLY PRSV D IN BRINE, IN SULPHUR WTR OR IN OTHR PRSV TV SOLNS	2,023	9,685
8109040	CUSTARD-APPLE(ATA)	4,241	8,547
8131000	APRICOTS, DRIED	1,206	6,643
8094000	PLUMS AND SLOES , FRESH	8,071	6,222
8135010	MIXTURES OF NUTS	5,152	6,119
8109060	LICHI	16,435	5,784
8132000	PRUNES DRIED	16,308	5,767
8021200	SHELLED ALMONDS FRSH OR DRIED	948	5,139
8054000	GRAPEFRUIT FRESH OR DRIED	46,899	4,867
8109050	BORE	11,121	4,685
8025000	PISTACHIOS FRESH OR DRIED	1,282	4,618
8029013	BETEL NUT,GROUND	93,990	3,974
8062010	RAISINS	6,359	3,759
8071900	MELON , OTHER THAN WATER MELON	8,330	3,702
8101000	STRAWBERRIES FRESH	586	3,660
8021100	ALMONDS FRSH OR DRIED IN SHELL	17,284	2,553
8135020	MIXTURES OF DRIED FRUIT	5,320	2,486
8041090	OTHER DATES	3,084	2,468
8042010	FIGS FRESH	6,831	2,177
8082000	PEARS & QUINCES FRSH	75	2,057
8134020	SINGODA WHOLE (WATER NUT)	3,284	1,959
8062090	SULTANAS & OTHER DRIED GRAPES	7,037	1,311
8104000	CRNBERRY BILBERS & OTHR OF GNUS VCINUM,FRSH	0	1,173
8102000	RASPBERS,BLACKBRS,MULBRS & LOGANBRS,FRSH	17	1,141

(Table 3.3 continued on next page)

Table 3.3 – Exports of all fruits under Chapter 08 of HS Code (Continued)

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
8052000	HANDARINS (INCL TANGRINES & SATSUMAS); CLIMINTINES, WLKNKS & SMLR CITRUS HYBRD FRSH / DRID	118	1,077
8042090	OTHER FIGS EXCLDNG FRSH	203	1,064
8091000	APRICOTS FRESH	521	995
8041030	DRY DATES HARD (CHIOHARA OR KHAREK)	435	944
8041010	DA TES FRESH (EXCLUDING WET DATES)	981	877
8111090	OTHER STRAWBERS W/N COKD,FRZN	988	808
8092000	CHERRIS FRESH	204	652
8111020	STRAWBERS W/N COKD,FRZN,NT CNTNG ADED SUGR	863	552
8024000	CHESTNUTS (CASTANEA SPP) FRSH OR DRIED	1,772	453
8133000	APPLES DRIED	1,277	441
8103000	BLACK,WHITE/RED CORRANTS & GOOSEBERRIES,FRSH	391	329
8121000	CHERRIES PROVS ONLY PRSVD	143	159
8041020	DRY DATES SOFT (KHAYZUR OR WET DATES)	808	84
8012200	BRAZIL NUTS FRSH/DRED SHELLED	208	58
8022100	HAZELNUTS IN SHELL,FRSH OR DRIED	73	43
8022200	SHELLED HAZELNUTS, FRSH OR DRIED	63	14
8112020	RASPBERRIES, BLACKBERRIES, MULBERRIES, LOGANBERRIES COOKED / UNCOOKED NT CONTAINING ADDED SUGAR	0	1
8111010	STRAWBERRIES W/N COKD,FRZN,CONTNG ADED SUGR	191	0
8044000	AVOCADOS FRESH OR DRIED	46	0
8112010	RASPBERRIES, BLACKBERRIES, MULBERRIES, LOGANBERRIES COOKED/UNCOOKED CONTAINING ADDED SUGAR	20	0
8093000	PEACHES INCL NECTARINES FRESH	2	0
TOTAL	EDIBLE FRUIT AND NUTS; PEEL OR CITRUS FRUIT OR MELONS.	39,821,477	25,454,987

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

From the above exhaustive list of fruits under Chapter 8, we have selected a few major items. The turnover of the selected items covers more than 97 per cent of the turnover of exports under the chapter.

Table 3.4 – Exports of major fruits under Chapter 08 of HS Code

HS Code	Commodity Description	2004-05		2005-06		2006-07		April - Dec 07	
		QTY	Value	QTY	Value	QTY	Value	QTY	Value
		Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
0801	Coconut, Brazil Nuts, Cashew Nuts, Fresh or Dried Whether or Not Shelled or Peeled								
08013100	Cashew nuts fresh / dried in shell	15	2,331	129	20,938	1,655	159,516	435	82,239
08013210	Cashew kernel, broken	13,070	2,377,447	10,478	1,662,393	8,965	1,367,757	4,673	706,655
08013220	Cashew kernel, whole	104,787	22,369,595	114,271	24,133,421	112,092	23,375,401	77,073	15,124,621
0802	Other Nuts, Fresh or Dried Whether or Not Shelled or Peeled								
08023200	Shelled walnuts fresh or dried	5,593	953,929	5,077	1,137,885	4,686	1,153,742	3,863	909,873
0803	Bananas Including Plantains Fresh or Dried								
08030000	Bananas including plantains fresh or dried	12,818	134,276	14,411	233,619	11,476	160,677	12,118	189,608
0804	Dates, Figs, Pineapples, Avocados, Guavas, Mangoes & Mangosteens, Fresh or Dried								
08045020	Mangoes fresh	53,480	896,106	69,607	1,281,112	79,061	1,419,395	51,233	1,173,329
08045030	Mangoes sliced dried	4,008	102,731	3,036	108,875	2,991	109,513	4,910	73,487
08045040	Mango pulp	95,857	3,157,194	134,613	3,642,412	156,836	5,058,279	130,443	3,945,570
08045090	Guavas, mangoes / mangosteens fresh or dried - others	5,945	180,812	10,007	279,157	14,594	455,038	8,348	169,082
0805	Citrus Fruit Fresh or Dried								
08051000	Oranges fresh or dried	31,528	330,066	36,488	348,725	30,110	291,386	17,105	160,588
08055000	Lemons (Citrus limon, Citrus limonum) & limes (Citrus aurantifolia) fresh or dried	10,523	83,579	11,099	112,825	13,033	140,390	11,124	118,142
08059000	Other citrus fruits fresh or dried	11,379	144,426	4,743	57,349	10,522	127,759	5,594	69,340
0806	Grapes Fresh or Dried								
08061000	Grapes fresh	38,898	1,264,380	53,908	2,138,286	85,563	3,005,849	22,283	708,251
0807	Melons (Including Watermelon) & Papaws (Papayas) Fresh								
08072000	Papaws (papayas) fresh	3,701	53,120	6,434	66,513	10,344	116,011	7,274	85,572
0808	Apples, Pears & Quinces, Fresh								
08081000	Apples fresh	23,225	263,498	30,044	381,291	25,971	313,866	31,157	318,088
0810	Other Fruits, Fresh								
08109010	Pomegranates fresh	14,040	298,871	19,652	567,016	21,670	795,731	15,472	417,836
08109090	Others fresh	10,480	114,741	9,207	111,561	7,029	116,377	5,099	63,163
0812	Fruits & Nuts, Provisionally Preserved, Unsuitable for Immediate Consumption								
08129010	Mango slices in brine	7,031	241,073	3,287	111,356	5,216	206,446	4,062	143,193
0813	Fruit Dried Excluding under Heads No. 08.01 to 08.06, Mixtures of Nuts or Dried Fruits								
08134010	Tamarind dried	5,532	120,884	9,619	228,507	12,853	304,905	9,959	241,487
Total for above items of Ch.8		451,911	33,089,059	546,109	36,623,240	614,666	38,678,040	422,224	24,700,123

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

Country-wise data in respect of each of the above items is given later in the report.



3.3. Prepared Fruits & Vegetables under Chapter 20 of HS Code

Table 3.5 – Exports of all prepared / processed fruits and vegetables under Chapter 20 of HS Code

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
20011000	CUCMBRS & GHRKNS PRPD/PRSD BY ACETIC ACID	2,935,948	1,630,769
20079910	JAMS JELLIES MRMLDS ETC. OF MANGOE	935,978	1,061,199
20019000	OTHER EDIBLE PARTS OF PLANTS PREPARED OR PRESERVED BY VINEGAR/ACETIC ACID	1,161,192	980,064
20089911	MANGO SQUASH	68,739	365,808
20059000	OTHR VETBLS & ITS MXTRS PRPD/PRSD,NT FRZN	585,796	332,965
20049000	OTHR VEG & MIXTRS OF VEG, PRPD/PRSD,FRZN	230,279	228,755
20098090	OTHER FRUIT JUICES	166,617	172,220
20051000	HOMOGENISED VGTBLS,PRPD/PRSD, NT FRZN	121,074	172,015
20079990	JAMS JELLIES MRMLDS ETC OF OTHER FRUITS	171,482	133,989
20097900	OTHER APPLE JUICE VAL.>20	1,623	102,893
20031000	MUSHROOMS PREPD/PRSD	1,076,768	95,720
20081100	GROUND NUTS , PRPD/PRSD	471,117	93,364
20079920	GUAVA	68,533	76,207
20089919	OTHER FRUIT SQUASH	63,771	70,295
20081940	OTHER ROASTED AND FRIED VEGETABLE PRODUCTS	74,462	63,982
20055900	OTHR BEANS PRPD/PRSD,NT FRZN	8,395	57,949
20052000	POTATOES PRPD/PRSD, NOT FRZN	59,784	57,344
20081990	OTHER NUTS AND SEEDS NES	49,662	43,677
20089999	OTHER FRUITS PREPARED/PRESERVED	87,072	39,988
20098010	MANGO JUICE	75,396	29,470
20081910	CASHEW NUT,ROASTED AND/OR SALTED	29,767	28,168
20071000	HOMOGENISED PREPARATIONS	61,001	28,095
20099000	MIXTRS OF JUICES UNFRMNTD NT CONTNG SPIRIT	6,988	27,900
20081920	OTHER ROASTED NUTS AND SEEDS	58,812	27,372
20089994	GUAVA, PREPARED OR PRESERVED	51,190	24,464
20041000	POTATOES PRPD/PRSD, FRZN	41,537	21,697
20081930	OTHER NUTS OTHERWISE PRPD/PRSD	7,328	12,593
20089914	PINEAPPLE SQUASH	8,666	12,291
20089200	OTHR MXTRS OF FRUTS EXCL SUB-HD NO 200819 PRPD/PRSD	5,876	11,191
20091900	OTHER ORNG JUICE NOT FROZEN/EXCLDING FROZN	6,396	9,354
20079100	JAMS JELLIES MRMLDS ETC OF CITRUS FRUITS	9,019	8,978

(Table 3.5 continued on next page)

Table 3.5 – Exports of all prepared / processed fruits and vegetables under Chapter 20 of HS Code (Continued)

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
20079930	PINEAPPLE	11,087	6,993
20021000	TOMATOES WHOLE OR IN PIECES	3,944	6,869
20060000	VEGTBLS FRUITS NUTS FRUIT PEEL & OTHR PRTS OF PLNTS PRSVD BY SUGR (DRAIND GLACE / CRYSTALLISED)	20,839	6,061
20089912	LEMON SQUASH	5,957	3,635
20029000	OTHER PRPD/PRSVD TOMATOES	3,543	3,360
20093900	OTHER SINGLECITRUS FRUIT JUICE VALUE>20	2,086	2,041
20091100	ORANG JUIC FROZN	1,621	2,021
20094900	OTHER PINEAPPLE JUICE VALUE >20	8,965	1,676
20058000	SWEET CORN PRPD/PRSVD, NT FRZN	1,553	1,598
20082000	PINE APPLES PREPARED OR PRESERVED	2,099	1,421
20032000	TRUFFLES PRPD/PRSVD	302	1,132
20054000	PEAS (PTSOM SATIVUM) PRPD/PRSVD,NT FRZN	1,968	833
20089993	APPLES, PREPARED OR PRESERVED	198	825
20089991	FRUITS COCKTAIL PREPARED/PRESERVED	1,066	678
20083090	OTHER CITRUS FRUITS PREPARED OR PRESERVED	1,614	615
20089913	ORANGE SQUASH	503	610
20089100	PALM HEARTS PREPARED OR PRESERVED	622	446
20089992	GRAPES, PREPARED OR PRESERVED	1,527	380
20079940	APPLE	1,807	130
20092900	OTHER GRAPE FRUIT JUICE VALUE>20	1,134	119
20093100	OTHER SINGLE CITRUS FRUIT JUICE VALUE NOT EXC.20	0	80
20086000	CHERRIES PREPARED OR PRESERVED	10	76
20085000	APRICOTS PREPARED OR PRESERVED	655	71
20095000	TOMATO JUICE	508	47
20039000	OTHER MUSHROOMS & TRUFRLS PRPD/PRSVD	15	29
20096900	OTHER JUICE(INCL.MUST) VALUE>30	2,012	21
20088000	STRAWBERRIES PREPARED OR PRESERVED	3,741	20
20083010	ORANGE PREPARED OR PRESERVED	200	4
20055100	BEANS SHELLLED PRPD/PRSVD, NT FRZN	18	4
20084000	PEARS PREPARED OR PRESERVED	0	1
20094100	PINEAPPLE JUICE OF BRIX VALUE NOT EXC.20	2,912	0
20096100	GRAPE JUICE(INCL. MUST) OF BRIX VALUE NOT EXC.30	612	0
20092100	GRAPE FRUIT JUICE OF A BRIX VALUE NOT EXC.20	458	0
20097100	APPLE JUICE OF BRIX VAL.NOT EXC.20	89	0
TOTAL	PREPARATIONS OF VEGETABLES, FRUIT, NUTS OR OTHER PARTS OF PLANTS.	8,783,933	6,062,572

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

Table 3.6 – Exports of major prepared / processed fruits and vegetables under Chapter 20 of HS Code



HS Code	Commodity Description	2004-05		2005-06		2006-07		April - Dec 07	
		QTY	Value	QTY	Value	QTY	Value	QTY	Value
		Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
2001	Vegetables, Fruits, Nuts & Other Edible Parts of Plants Prepared / Preserved by Vinegar / Acetic Acid								
20011000	Cucumbers & gherkins prepared / preserved by acetic acid	71,976	1,293,471	135,382	2,609,814	145,216	2,935,948	84,521	1,630,769
20019000	Other edible parts of plants preserved / prepared by acetic acid	17,380	631,001	20,999	756,433	34,803	1,161,195	29,634	980,064
2003	Mushrooms & Truffles Prepared / Preserved Otherwise Than by Vinegar / Acetic Acid								
20031000	Mushrooms	24,432	844,513	12,469	469,461	24,790	1,076,768	1,849	95,720
2004	Other Vegetables Prepared / Preserved Otherwise Than by Vinegar / Acetic Acid and Frozen								
20049000	Other veg. & mixtures of veg. Prepared / preserved frozen	3,975	234,911	4,934	221,702	3,159	230,279	3,378	228,755
2005	Other Vegetables Prepared / Preserved Otherwise Than by Vinegar / Acetic Acid NOT Frozen								
20051000	Homogenised vegetables	59	2,902	599	44,919	1,878	121,074	2,658	172,015
20059000	Other vegetables & mixtures	3,295	132,659	9,030	348,333	14,078	585,796	7,398	332,965
2007	Jams, Fruit Jelly, Marmalades, Fruit/Nut Puree & Pastes Cooked Preparations W/N Containing Sugar								
20079910	Jams, Jelly etc. of Mango	5,736	247,074	19,294	750,099	21,086	935,978	23,947	1,061,199
20079990	Jams, Jelly etc. of other fruits	3,451	120,963	5,512	194,171	4,432	171,482	4,048	133,989
2008	Fruits, Nuts & Other Edible Parts of Plants Otherwise Prepared / Preserved, W/N Sweetened N.E.S.								
20081100	Groundnuts prepared / prsvd	4,509	111,670	18,694	527,559	15,731	471,117	2,330	93,364
2009	Fruit Juices, Vegetable Juices Unfermented & Not With Added Spirit, Whether or Not Sweetened								
20098090	Other Fruit Juices	2,620	96,686	2,940	132,913	2,458	166,617	2,706	172,220
Total for above items of Ch.20		137,433	3,715,851	229,852	6,055,405	267,630	7,856,254	162,468	4,901,060

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

Country-wise data in respect of each of the above items is given later in the report.



4. Export of Fresh / Chilled Vegetables

4.1 Potatoes

India exported about 89,000 tons of potatoes in 2006-07. Potato exports have been increasing during the past 3 years. As volumes have risen, average realization per kg of potatoes has also increased from Rs. 4.81 / kg in 2004-05 to Rs. 5.21 in 2005-06 and to Rs. 6.48 per kg in 2006-07. Average realization fell in 2006-07 to Rs. 5.27 per kg. This fall may be on account of appreciation of Indian Rupee against USD.

Table 4.1 – Export of potatoes – fresh or chilled, HS Code 07019000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
NEPAL	42,605	164,619	44,802	152,803	44,626	161,066	54,040	208,338
MALDIVES	1,690	9,448	701	3,967	1,057	10,442	2,408	14,308
SRI LANKA	13,957	83,813	14,822	105,484	19,867	197,122	2,263	27,299
MAURITIUS	3,113	29,469	5,782	62,637	4,714	55,688	1,682	49,451
BANGLADESH	687	3,601	1,752	5,932	4,741	21,742	1,640	7,077
U.A.E.	134	576	61	373	4,430	43,222	1,211	13,586
IRAN	0	0	0	0	580	6,648	899	10,068
SEYCHELLES	1,725	10,522	475	5,597	175	2,265	724	10,088
PAKISTAN	140	954	1,505	10,766	5,835	47,669	571	3,713
U.S.A.	0	0	10	78	14	108	274	900
BENIN	0	0	0	0	0	0	265	801
MALAYSIA	918	6,450	3,873	35,455	1,222	11,386	225	1,975
SINGAPORE	528	5,657	562	4,570	574	4,069	80	1,055
CONGO P REP	0	0	0	0	0	0	54	197
U.K.	42	234	1	7	56	652	48	146
SOUTH AFRICA	0	0	0	0	34	295	30	1,025
GERMANY	200	859	0	0	0	0	24	124
NETHERLAND	0	0	0	0	0	0	19	76
KUWAIT	0	0	0	0	178	2,021	8	70
KENYA	0	0	0	0	0	0	8	65
PHILIPPINES	0	0	0	0	0	0	4	19
QATAR	2	12	0	0	0	0	2	29
SAUDI ARABIA	46	254	0	0	28	260	2	10
ROMANIA	0	0	0	0	0	0	1	3
SUDAN	0	0	0	0	0	0	1	5
SWEDEN	0	0	0	0	0	0	1	12
MARTINIQUE	0	0	0	0	412	4,506	0	0
OMAN	0	0	21	34	176	2,018	0	0
TUNISIA	0	0	0	0	120	4,047	0	0
MOROCCO	0	0	0	0	84	854	0	0
REUNION	0	0	0	0	50	451	0	0
BAHRAIN	0	0	0	0	15	78	0	0

(Table 4.1 continued on next page)

Table 4.1 – Export of potatoes– fresh or chilled, HS Code 07019000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
SPAIN	0	0	0	0	13	283	0	0
OTHER COUNTRY	38	180	17	69	11	23	0	0
AFGHANISTAN	0	0	0	0	10	86	0	0
CHINA	0	0	0	0	3	11	0	0
AUSTRALIA	0	0	130	413	0	0	0	0
CANADA	23	86	20	71	0	0	0	0
SWITZERLAND	0	0	0	0	0	0	0	0
BELGIUM	100	546	0	0	0	0	0	0
FRANCE	0	0	0	0	0	0	0	0
INDONESIA	3	13	0	0	0	0	0	0
KOREA REPUBLIC	18	82	0	0	0	0	0	0
MOZAMBIQUE	4	13	0	0	0	0	0	0
NORWAY	21	146	0	0	0	0	0	0
ST. HELENA	1	13	0	0	0	0	0	0
Total	65,996	317,547	74,534	388,258	89,025	577,010	66,484	350,440

Source: APEDA / DGCIS / Department of Commerce, Government of India



Fresh potatoes are exported to countries that are located close to India. Nepal imports the largest quantity and volumes seem to be growing even at such high levels. Other major importing countries are Maldives, Sri Lanka, Mauritius, Bangladesh, U.A.E, Iran and Seychelles. Sri Lanka and Pakistan imported significant quantities during 2006-07, but have slipped in the subsequent year.

Total potato exports are less than 0.4 per cent of India's production of potatoes. In fact, exports are less than 1 per cent of production of the state of Uttar Pradesh.

4.2 Tomatoes

Table 4.2 – Export of tomatoes – fresh or chilled, HS Code 07020000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
PAKISTAN	190	847	6,348	68,538	16,542	169,450	44,901	530,955
U.A.E.	73	402	999	5,534	10,177	111,682	12,078	155,211
BANGLADESH	6,259	52,935	3,508	28,455	4,557	40,810	11,558	96,968
NEPAL	694	3,061	700	4,869	1,301	9,151	1,047	6,636
MALDIVES	135	917	144	845	432	3,237	557	3,440
TAIWAN	0	0	0	0	0	0	181	2,088
CHINA P RP	0	0	0	0	0	0	155	1,709
KUWAIT	16	74	18	139	87	934	35	128
OMAN	0	0	0	0	41	230	23	277
TANZANIA REP	0	0	0	0	0	0	3	98
BAHRAIN	1	4	1	7	7	33	3	19
SINGAPORE	2	26	0	0	406	4,668	1	13
SAUDI ARABIA	0	0	1	3	43	824	0	0
SPAIN	0	0	0	0	0	1	0	0
JAPAN	36	420	14	95	0	0	0	0
U.S.A.	12	70	7	61	0	0	0	0
OTHER COUNTRY	22	87	2	8	0	0	0	0
MALAYSIA	3	21	1	53	0	0	0	0
U.K.	5	73	0	0	0	0	0	0
Total	7,446	58,938	11,743	108,607	33,593	341,020	70,544	797,541

Source: APEDA / DGCIIS / Department of Commerce, Government of India



Tomatoes are exported primarily to neighbouring countries. Pakistan, U.A.E. and Bangladesh accounted for about 93 per cent of total exports in 2006-07 and about 97 per cent of total exports during nine months of April-December 2007.

There has been a big jump in exports of tomatoes to the above three countries during the past three years. Exports to Pakistan, U.A.E. and Bangladesh were only 6,522 tons in 2004-05. The figure increased to 10,855 tons in 2005-06, increasing further to 31,276 tons in 2006-07. During April-December 2008, exports to the three countries were 68,537 tons.

The sharp rise in tomato exports is accompanied by increasing average export realization – Rs. 7.92 per kg in 2004-05, Rs. 9.25 per kg in 2005-06, Rs. 10.15 per kg in 2006-07 and Rs. 11.31 per kg in April-December 2007. Increasing average export realization shows that Indian tomatoes have been able to gain acceptance of consumers in importing countries and sales are not being achieved on the basis of price push.

4.3 Onions

India exported 1.38 mio tons of onions during 2006-07, while the corresponding figure for 2005-06 was 0.96 mio tons and for 2004-05 was 0.87 mio tons. During nine months of April-December 2007, onion exports were 0.63 mio tons.

Average export realization was Rs. 7.40 per kg for 2004-05 and Rs. 7.37 per kg for 2005-06. It increased to Rs. 8.44 per kg during 2006-07, before zooming up to Rs.11.98 per kg for April-December 2007.

Table 4.3 – Export of onions – fresh or chilled, HS Code 07031010

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
BANGLADESH	358,967	2,979,139	331,534	2,720,020	403,144	3,129,587	245,571	3,229,444
MALAYSIA	177,043	1,312,674	226,002	1,736,446	319,857	2,704,429	117,026	1,381,819
U.A.E.	116,188	760,270	112,174	735,591	235,913	2,096,740	92,798	1,120,593
SRI LANKA	105,353	665,192	126,731	839,849	135,589	1,175,500	77,772	734,192
NEPAL	27,884	113,400	31,408	151,148	39,058	220,612	23,775	185,349
SINGAPORE	17,035	104,683	16,792	125,045	22,961	194,005	11,598	130,673
BAHRAIN	21,557	153,189	14,989	95,076	26,154	230,495	8,804	99,906
MAURITIUS	10,234	69,746	10,519	79,336	9,544	95,924	6,952	99,174
SAUDI ARABIA	8,519	59,172	5,546	38,075	7,690	81,885	6,916	73,769
INDONESIA	379	3,753	326	2,812	1,203	9,902	5,521	61,640
KUWAIT	3,456	25,151	6,792	39,891	9,720	97,356	5,427	55,941
OMAN	2,881	22,062	1,377	8,089	5,333	67,390	4,819	55,262
QATAR	3,019	22,623	6,327	41,882	8,111	76,205	3,430	32,892
REUNION	4,498	34,974	3,666	30,608	4,780	41,923	2,366	30,925
PAKISTAN	3,840	27,440	45,130	254,780	98,942	936,601	2,356	21,900
CHINA	0	0	0	0	2,525	21,455	2,263	36,778
MALDIVES	2,255	23,778	1,575	18,331	1,662	19,928	1,644	25,534
UNSPECIFIED	0	0	0	0	0	0	1,609	27,604
BRUNEI	1,542	21,105	1,063	24,876	2,136	30,698	1,593	30,562
U.K.	830	4,204	2,007	13,618	598	9,095	715	12,803
SPAIN	0	0	125	952	1,071	11,561	538	8,279
SEYCHELLES	665	6,953	429	3,733	977	14,232	403	7,437
NETHERLANDS	442	7,291	200	1,707	666	9,504	369	9,086
PHILIPPINES	0	0	4,098	27,796	32,894	284,828	296	3,768
COMOROS	22	279	218	2,104	209	2,547	199	2,632
FRANCE	82	625	81	573	194	2,502	125	2,032
TAIWAN	0	0	0	0	0	0	120	1,595
VIETNAM	0	0	0	0	189	2,355	84	758
U.S.A.	22	432	56	304	120	918	64	2,113
AUSTRALIA	24	110	18	60	0	0	53	1,494
BRAZIL	0	0	220	1,153	25	118	33	4,669
ICELAND	0	0	140	988	72	579	24	316
THAILAND	0	0	0	0	0	0	22	192
RUSSIA	0	0	0	0	35	2,163	21	1,573
BENIN	0	0	0	0	19	105	20	182

(Table 4.3 continued on next page)

Table 4.3 – Export of onions – fresh or chilled, HS Code 07031010 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
SOUTH AFRICA	68	336	49	164	46	1,833	11	118
EGYPT A RP	0	0	0	0	0	0	5	20
GERMANY	2,404	13,718	1	8	326	3,139	3	34
JAPAN	0	0	2	12	154	1,090	1	23
SWITZERLAND	0	0	0	0	12	360	1	3
SUDAN	0	0	0	0	0	0	0	6
IRAQ	200	1,657	0	0	1,520	8,907	0	0
OTHER COUNTRY	0	0	1,400	15,173	1,421	14,093	0	0
GREECE	100	933	7,180	49,301	1,346	12,958	0	0
CHILE	0	0	0	0	614	2,252	0	0
ITALY	56	557	194	1,226	308	4,671	0	0
POLAND	0	0	0	0	230	1,399	0	0
IRAN	0	0	190	1,076	200	1,137	0	0
CHINESE TAIPEI	191	1,867	130	1,176	128	1,301	0	0
HONG KONG	0	5	0	0	125	1,073	0	0
NORWAY	0	0	0	0	110	944	0	0
BULGARIA	0	0	0	0	100	1,012	0	0
CONGO	0	0	0	0	90	636	0	0
HONDURAS	0	0	0	0	72	613	0	0
YAMEN AR REP	0	0	400	4,291	60	495	0	0
ST. PIERRE & MI	0	0	0	0	48	874	0	0
TURKEY	0	0	0	0	39	2,798	0	0
CANADA	10	81	19	214	32	331	0	0
SOMALIA	0	0	850	9,212	0	0	0	0
CANARY ISLAND	0	0	234	1,510	0	0	0	0
SWEDEN	0	0	134	901	0	0	0	0
DENMARK	0	0	100	1,860	0	0	0	0
TRINIDAD AND TO	0	0	37	224	0	0	0	0
NEWZEALAND	0	0	15	160	0	0	0	0
BELIZE	20	90	14	56	0	0	0	0
MALTA	0	0	13	182	0	0	0	0
BAHAMAS	200	2,373	0	0	0	0	0	0
BELGIUM	75	425	0	0	0	0	0	0
BURKINA FASO	115	696	0	0	0	0	0	0
SURINAM	20	138	0	0	0	0	0	0
UKRAINE	20	69	0	0	0	0	0	0
Total	870,217	6,441,190	960,507	7,081,588	1,378,373	11,633,057	625,346	7,493,091

Source: APEDA / DGCIS / Department of Commerce, Government of India

Onion exports are a significant percentage of the country's production. During 2006-07 India exported more than 15 per cent of her production. Onion prices are a politically sensitive issue. Political parties have lost elections due to high onion prices. Hence, Government of India makes efforts to keep exports under check especially when prices show tendency of zooming up. With this purpose, the government prescribes minimum export price (MEP) for onion. The average MEP for June 2008 was USD 155-160 a ton. For July 2008, the MEP was increased by USD 25 to USD 185 per ton. High average realization during April-December 2007 and relatively lower export figures for the period is due to high MEP for the period.

4.4 Garlic

Table 4.4 – Export of garlic – fresh or chilled, HS Code 07032000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
NEPAL	215	9,534	439	4,505	222	5,829	64	1,651
PHILIPPINES	0	0	206	3,138	788	21,327	56	1,224
CANADA	5	33	1	13	12	338	36	607
MALAYSIA	12	718	2,662	34,429	3,707	73,554	7	154
U.S.A.	4	35	18	156	2	170	3	38
SINGAPORE	6	138	2	92	10	242	3	215
SOUTH AFRICA	16	376	23	675	23	1,468	2	57
U.A.E.	58	2,312	9	158	22	727	1	26
YAMEN ARAB REPU	0	0	0	0	0	15	1	26
KUWAIT	0	0	0	1	0	0	0	9
NETHERLANDS	80	1,246	0	0	16	752	0	2
U.K.	8	497	21	583	57	1,992	0	8
SUDAN	0	0	0	0	0	0	0	3
BANGLADESH	769	6,750	21,117	196,880	6,836	70,521	0	0
PAKISTAN	1,031	14,426	7,689	128,844	299	8,961	0	0
SRI LANKA	12	117	117	1,779	59	792	0	0
ARGENTINA	0	0	0	0	44	2,383	0	0
AUSTRALIA	0	0	0	0	27	265	0	0
SPAIN	0	0	0	0	26	1,577	0	0
SAUDI ARABIA	0	0	15	386	24	877	0	0
ROMANIA	0	0	0	0	18	850	0	0
OMAN	0	0	14	218	12	166	0	0
BAHRAIN	0	0	1	14	4	201	0	0
MALDIVES	0	0	1	22	1	29	0	0
REUNION	0	0	0	0	0	9	0	0
QATAR	0	7	0	0	0	13	0	0
VIETNAM	0	0	0	0	0	5	0	0
INDONESIA	0	0	65	553	0	0	0	0
MAURITIUS	11	1,488	65	1,078	0	0	0	0
BULGARIA	0	0	15	283	0	0	0	0
HUNGARY	0	0	15	326	0	0	0	0
KENYA	0	0	1	11	0	0	0	0
MALTA	0	0	1	14	0	0	0	0
NEWZEALAND	0	0	0	3	0	0	0	0
FRANCE	0	2	0	0	0	0	0	0
GERMANY	19	1,145	0	0	0	0	0	0
SWITZERLAND	1	14	0	0	0	0	0	0
TRINIDAD AND TO	2	56	0	0	0	0	0	0
Total	2,248	38,896	32,495	374,162	12,211	193,060	172	4,020

Source: APEDA / DGCIS / Department of Commerce, Government of India

Garlic exports show high fluctuations since they are dependent on crop not just in India but also in China. Exports take place if there is a crop failure in China and India has a bumper crop.

4.5 Green chilly

Table 4.5 – Export of green chilly – fresh or chilled, HS Code 07096010

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.A.E.	2,864	38,785	6,096	106,047	15,717	186,544	10,732	213,142
BANGLADESH	3,968	33,077	108	1,605	381	3,305	7,326	73,420
NEPAL	242	2,654	435	2,377	773	5,507	877	8,516
KUWAIT	3	82	4	95	295	4,160	434	7,377
BAHRAIN	337	4,079	456	7,881	549	10,692	386	8,560
CHINA	126	1,817	0	0	0	0	222	2,558
U.K.	94	2,712	141	4,804	70	1,857	121	2,488
SAUDI ARABIA	44	1,418	59	935	51	1,591	106	3,098
U.S.A.	1	31	7	150	47	820	78	2,359
QATAR	2	52	9	193	54	1,724	22	838
BAHAMAS	0	0	0	0	6	250	14	630
CANADA	64	1,009	3	99	16	107	9	128
MALDIVES	0	5	0	2	0	0	7	278
PORTUGAL	0	0	5	120	2	60	3	66
UNSPECIFIED	0	0	0	0	0	0	2	62
ITALY	1	22	1	20	15	865	1	74
OMAN	9	220	0	5	10	250	1	18
SWITZERLAND	0	0	0	0	0	85	1	14
HONG KONG	0	0	11	236	0	0	1	29
PARAGUAY	0	0	0	0	0	0	0	18
FRANCE	2	65	36	1,106	11	374	0	2
NEWZEALAND	0	0	2	23	0	0	0	4
PAKISTAN	139	3,641	905	11,322	144	2,593	0	0
SINGAPORE	22	268	1	18	19	374	0	0
AUSTRALIA	0	0	0	0	15	178	0	0
OTHER COUNTRY	0	0	0	0	7	239	0	0
REUNION	0	0	0	0	2	24	0	0
NORWAY	0	0	0	0	1	10	0	0
SOUTH AFRICA	0	0	5	144	1	21	0	0
POLAND	0	0	0	0	0	4	0	0
MALAYSIA	13	442	197	5,310	0	0	0	0
SRI LANKA	0	0	179	3,886	0	0	0	0
SPAIN	0	0	80	1,230	0	0	0	0
GERMANY	21	491	18	490	0	0	0	0
SWEDEN	0	0	4	91	0	0	0	0
NETHERLANDS	0	0	1	68	0	0	0	0
GREECE	0	16	0	0	0	0	0	0
KOREA REPUBLIC	0	15	0	0	0	0	0	0
LESOTHO	1	18	0	0	0	0	0	0
ST. KITTS NEVIS	0	4	0	0	0	0	0	0
Total	7,952	90,921	8,765	148,259	18,188	221,634	20,343	323,679

Source: APEDA / DGCIS / Department of Commerce, Government of India

India exports green chilly to neighbouring Bangladesh, Nepal and Pakistan in addition to countries of West Asia, where persons of Indian origin have a significant presence.

Average export realizations were Rs. 11.43 per kg in 2004-05, Rs. 16.92 per kg in 2005-06, Rs. 12.91 per kg in 2006-07 and Rs. 15.91 per kg in Apr-Dec 2007.

4.6 Other vegetables

Table 4.6 – Export of other vegetables – mixed vegetables fresh or chilled, HS Code 07099050

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.A.E.	6,216	70,859	6,281	108,088	17,310	296,614	10,175	207,904
U.K.	3,995	130,385	2,603	79,040	8,203	286,274	6,020	178,516
SAUDI ARABIA	3,696	55,332	2,066	48,760	6,296	205,014	3,844	92,330
QATAR	905	16,478	840	21,204	3,246	97,817	2,876	73,996
KUWAIT	2,453	43,568	1,186	27,636	3,891	76,818	2,848	70,697
BAHRAIN	1,838	33,345	1,225	37,203	1,629	45,736	1,503	36,978
NEPAL	4,572	18,095	3,883	16,589	2,047	17,614	1,291	11,422
CANADA	1,357	27,982	761	22,973	1,280	39,605	1,097	36,793
OMAN	170	2,111	292	6,979	409	11,109	589	16,198
GERMANY	466	12,794	430	10,303	1,001	35,915	565	16,641
FRANCE	551	11,517	545	16,060	725	19,323	423	16,251
SINGAPORE	252	4,458	391	10,070	833	26,178	366	10,079
MALDIVES	51	1,172	62	1,345	68	1,978	337	8,569
SWITZERLAND	452	18,962	462	12,342	636	22,991	291	8,760
SWEDEN	4	71	8	468	78	4,562	174	2,789
BAHAMAS	0	0	30	779	545	15,725	147	5,815
U.S.A.	133	3,349	228	5,751	249	5,715	117	2,072
HONG KONG	81	2,416	44	2,377	187	5,652	106	3,467
PAKISTAN	85	4,731	54	2,930	12	198	45	396
NETHERLANDS	41	1,967	88	2,357	123	4,487	44	1,891
BELGIUM	60	444	12	240	22	369	38	2,570
ITALY	68	1,870	67	2,337	188	4,455	32	795
SOUTH AFRICA	24	313	5	189	1	19	29	698
DENMARK	1	16	0	0	2	58	26	738
PORTUGAL	37	903	14	337	27	482	21	980
AUSTRIA	18	543	6	195	22	621	20	561
NORWAY	22	168	1	45	29	595	17	480
AUSTRALIA	0	0	11	347	57	1,747	17	465
PARAGUAY	0	0	0	0	13	794	15	640
SPAIN	21	195	0	94	2	46	12	578
BULGARIA	3	19	0	0	1	13	11	132
GREECE	21	604	16	346	11	241	3	94
GEORGIA	0	0	0	0	3	87	3	72
KIRIBATI	0	0	1	16	3	80	1	34
SUDAN	80	2,069	0	0	1	23	1	26
GUINEA	1	24	0	0	0	0	1	61
SOMALIA	0	0	0	0	0	0	1	31

(Table 4.6 continued on next page)

Table 4.6 – Export of other vegetables – mixed vegetables fresh or chilled, HS Code 07099050 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
YAMEN AR REP	0	0	0	0	5	173	1	65
CHINA	1	20	0	0	1	25	1	23
ST. PIERRE	0	0	0	0	0	0	1	14
PERU	0	0	0	0	0	0	1	39
BOSNIA-HRZGOVIN	1	13	0	0	3	80	1	16
IRELAND	0	0	0	0	0	0	0	23
ARUBA	0	0	0	0	0	0	0	11
MACAO	3	113	2	46	0	0	0	11
MALTA	0	0	0	0	0	0	0	6
BARBADOS	0	0	0	0	0	0	0	8
MONACO	0	0	0	0	0	0	0	2
AFGHANISTAN	0	0	2	67	0	0	0	4
MALAYSIA	664	4,869	232	2,810	2	63	0	2
ARGENTINA	2	14	0	0	0	0	0	2
SRI LANKA	33	331	575	4,961	275	3,304	0	1
MOROCCO	1	32	0	0	0	0	0	0
TURKEY	0	0	0	0	0	0	0	0
ST. HELENA	0	0	134	2,309	845	26,362	0	0
OTHER COUNTRY	30	325	5	178	340	17,753	0	0
BANGLADESH	162	1,244	1	10	170	822	0	0
DOMINICAN REPUB	49	927	32	695	59	1,674	0	0
INDONESIA	150	3,226	36	821	41	948	0	0
MALI	0	0	0	0	36	811	0	0
CHINESE TAPEI	0	0	0	0	24	720	0	0
NIGERIA	0	0	0	0	14	143	0	0
MAURITIUS	1	79	1	40	12	338	0	0
UKRAINE	2	658	4	98	11	425	0	0
MONGOLIA	0	0	0	0	2	65	0	0
JAPAN	3	129	45	405	2	143	0	0
MAURITANIA	0	0	0	0	1	48	0	0
MEXICO	0	18	0	0	1	34	0	0
TONGA	0	0	0	0	1	29	0	0
AMERICAN SAMOA	1	38	2	49	1	15	0	0
ST. KITTS NEVIS	1	38	1	39	1	20	0	0
THAILAND	3	153	3	61	0	29	0	0
UGANDA	0	0	0	0	0	23	0	0
RUSSIA	1	8	0	0	0	15	0	0
CYPRUS	0	0	40	833	0	0	0	0
ISREAL	0	0	18	712	0	0	0	0
KENYA	1	22	11	530	0	0	0	0
SWAJILAND	12	187	10	129	0	0	0	0
GHANA	2	30	1	45	0	0	0	0
ZAIRE	1	20	1	24	0	0	0	0
EGYPT	0	0	0	20	0	0	0	0
KAZAKISTAN	0	0	0	2	0	0	0	0

(Table 4.6 continued on next page)

Table 4.6 – Export of other vegetables – mixed vegetables fresh or chilled, HS Code 07099050 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
ARMENIA	2	50	0	0	0	0	0	0
BENIN	1	6	0	0	0	0	0	0
DOMINICA	3	35	0	0	0	0	0	0
HONDURAS	10	171	0	0	0	0	0	0
KOREA REPUBLIC	10	130	0	0	0	0	0	0
LEBANON	1	35	0	0	0	0	0	0
LIECHTENSTEIN	1	29	0	0	0	0	0	0
NEWZEALAND	2	45	0	0	0	0	0	0
POLAND	1	18	0	0	0	0	0	0
PUERTO RICO	1	27	0	0	0	0	0	0
SAO TOME & PRIN	1	51	0	0	0	0	0	0
SENEGAL	1	9	0	0	0	0	0	0
US VIRGIN ISLAND	1	6	0	0	0	0	0	0
VENEZUELA	1	5	0	0	0	0	0	0
UNSPECIFIED	0	0	0	0	0	0	224	7,340
Total	28,833	479,872	22,768	452,288	50,993	1,283,018	33,336	818,089

Source: APEDA / DGCIS / Department of Commerce, Government of India

Table 4.7 – Export of other vegetables – fresh or chilled n.e.s., HS Code 07099090

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.A.E.	4,624	45,606	6,554	95,238	8,909	132,182	9,404	151,659
U.K.	519	16,620	1,402	29,218	3,026	208,180	1,060	37,693
NEPAL	8,556	27,891	2,377	10,448	737	6,092	702	7,150
KUWAIT	621	14,444	2,093	25,414	1,107	28,457	517	9,027
SAUDI ARABIA	1,284	25,743	1,320	30,266	1,827	52,481	301	6,825
QATAR	426	7,403	449	10,488	933	27,007	256	6,559
BAHRAIN	321	7,212	651	19,699	495	15,290	254	3,543
SINGAPORE	248	5,236	225	4,178	205	4,132	210	5,908
BANGLADESH	288	1,381	97	749	0	0	124	1,704
U.S.A.	179	7,555	249	7,720	606	15,879	112	2,852
GREECE	5	105	19	469	1	24	112	5,936
FRANCE	52	2,322	115	2,919	277	13,127	62	2,143
JAPAN	3	53	0	0	0	0	60	253
OMAN	215	2,414	182	4,503	334	9,756	52	1,514
CANADA	450	7,388	208	6,480	270	8,540	52	850
NORWAY	1	23	10	210	8	334	51	989
ITALY	21	465	40	1,016	112	3,273	49	1,097
GERMANY	53	1,219	98	1,991	255	12,438	49	2,094

(Table 4.7 continued on next page)

Table 4.7 – Export of other vegetables – fresh or chilled n.e.s., HS Code 07099090 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
MALDIVES	207	2,796	215	4,707	332	7,438	48	775
HONG KONG	12	546	24	826	114	10,313	27	864
SWITZERLAND	92	2,703	22	549	40	2,293	21	613
NEWZEALAND	37	446	101	1,285	1	30	17	660
AUSTRALIA	50	3,721	89	1,344	4	99	12	151
PAKISTAN	28	430	0	0	0	61	10	584
IRELAND	0	0	0	0	0	1	10	125
PORTUGAL	9	273	12	177	20	686	8	312
BAHAMAS	0	0	3	75	21	794	8	327
BELGIUM	3	82	9	288	12	505	6	256
SOUTH AFRICA	0	0	2	18	12	116	5	125
MALAYSIA	18	363	43	484	9	228	3	46
SWEDEN	0	0	2	58	2	76	3	242
MAURITIUS	0	0	2	4	288	4,493	2	394
NETHERLANDS	26	1,295	30	640	38	1,185	2	139
AUSTRIA	3	83	1	17	1	41	2	16
HUNGARY	0	0	0	0	0	0	1	41
PHILIPPINES	0	0	0	0	0	0	1	21
SRI LANKA	208	1,305	587	3,941	0	0	1	11
JORDAN	0	0	0	0	3	111	1	9
SPAIN	0	0	0	16	0	0	1	85
GEORGIA	1	25	0	0	1	52	1	26
UKRAINE	0	0	0	0	41	1,328	1	13
PARAGUAY	0	0	0	0	5	185	0	13
THAILAND	0	0	0	0	0	0	0	7
ZAMBIA	0	0	0	0	0	0	0	1
ST. HELENA	0	0	90	2,202	219	5,821	0	0
KOREA REPUBLIC	0	0	10	188	211	1,436	0	0
OTHER COUNTRY	1	33	0	0	101	6,876	0	0
MALI	0	0	1	22	12	435	0	0
BOSNIA-HRZGOVIN	0	0	42	445	3	82	0	0
DOMINICA	0	0	0	0	3	88	0	0
DENMARK	1	27	0	0	2	52	0	0
MOLDVIA	0	0	0	0	2	47	0	0
BRAZIL	0	0	4	77	2	45	0	0
KIRIBATI	0	0	0	6	1	33	0	0
RUSSIA	0	0	200	2,630	1	50	0	0
CAMEROON	0	0	0	0	1	36	0	0
DOMINICAN REPUB	1	31	14	373	1	36	0	0
TONGA	0	0	0	0	1	42	0	0
ARMENIA	0	0	0	0	1	25	0	0
POLAND	0	0	0	0	1	28	0	0

(Table 4.7 continued on next page)

Table 4.7 – Export of other vegetables – fresh or chilled n.e.s., HS Code 07099090 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
NIGERIA	0	0	0	0	1	70	0	0
BULGARIA	0	0	0	0	0	13	0	0
MONGOLIA	0	0	0	0	0	5	0	0
GHANA	0	0	1	7	0	7	0	0
ANDORRA	0	0	0	0	0	4	0	0
ST. KITTS NEVIS	0	0	0	0	0	2	0	0
SUDAN	0	0	43	1,128	0	0	0	0
CHINESE TAIPEI	0	0	24	484	0	0	0	0
NIGER	0	0	3	29	0	0	0	0
INDONESIA	0	0	1	24	0	0	0	0
AMERICAN SAMOA	0	0	1	5	0	0	0	0
AZER-BAIJAN	0	0	0	7	0	0	0	0
ST. VINCENT/GRE	0	0	0	6	0	0	0	0
EQUATORIAL GUIN	1	10	0	0	0	0	0	0
LEBANON	1	22	0	0	0	0	0	0
SYRIAN ARAB REP	0	6	0	0	0	0	0	0
US VIRGIN ISLAND	2	18	0	0	0	0	0	0
UNSPECIFIED	0	0	0	0	0	0	67	2,909
Total	18,566	187,297	17,664	273,065	20,613	582,463	13,681	256,561

Source: APEDA / DGCIS / Department of Commerce, Government of India



5. Export of frozen vegetables

5.1 Other frozen vegetables cooked or not

Table 5.1 – Export of other frozen vegetables, cooked or not HS Code 07108090

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.S.A.	514	23,947	464	18,860	1,281	58,003	1,038	39,120
AUSTRALIA	19	1,528	147	6,592	163	6,989	246	9,433
U.K.	200	9,463	208	14,228	286	10,011	146	5,979
CANADA	0	0	104	3,095	228	11,236	143	6,459
SAUDI ARABIA	9	188	3	87	0	0	41	1,959
NEWZEALAND	21	1,834	27	963	41	1,809	41	1,406
JAPAN	0	3	0	0	0	0	35	2,003
U.A.E.	8	183	120	2,750	77	1,155	22	831
GREECE	0	0	0	0	127	5,963	22	944
GERMANY	1	57	58	2,954	64	3,627	19	1,195
BELGIUM	0	20	0	0	19	494	8	21
SRI LANKA	19	172	9	93	1	20	8	63
NETHERLANDS	92	3,110	0	0	96	4,089	7	422
NEPAL	13	262	11	70	0	0	5	94
KUWAIT	24	116	8	173	32	930	3	39
MALDIVES	4	79	0	5	0	0	2	49
ITALY	0	0	21	555	0	0	1	94
BAHRAIN	37	411	28	306	43	1,733	1	5
MALAYSIA	0	0	0	0	1	21	0	4
HONG KONG	1	96	0	0	1	164	0	7
QATAR	5	56	7	115	0	0	0	0
SINGAPORE	0	0	10	156	26	325	0	0
KENYA	0	0	6	100	13	358	0	0
PHILIPPINES	0	0	0	0	7	315	0	0
FRANCE	1	17	1	15	4	152	0	0
BRAZIL	0	0	0	10	0	0	0	0
ISREAL	0	2	0	0	0	0	0	0
SPAIN	8	166	0	0	0	0	0	0
SWEDEN	1	40	0	0	0	0	0	0
SWITZERLAND	10	167	0	0	0	0	0	0
Total	986	41,916	1,232	51,125	2,509	107,396	1,787	70,128

Source: APEDA / DGCIS / Department of Commerce, Government of India

In case of fresh / chilled vegetables, exports are mainly to neighbouring countries or to West Asia. In contrast, frozen vegetables travel to the other side of the world and reach to U.S.A, Australia, U.K. and Canada.

Volumes of export of frozen vegetables are very small compared to the export of fresh / chilled vegetables.

Table 5.2 – Export of other vegetables, prepared / preserved otherwise than by vinegar or acetic acid and frozen HS Code 20049000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.S.A.	1,889	84,934	3,132	125,691	1,663	136,471	1,979	153,681
U.K.	62	3,086	157	10,165	367	23,721	478	22,958
AUSTRALIA	314	19,787	1,182	65,250	254	14,823	156	7,227
SINGAPORE	25	2,860	36	1,131	89	5,025	136	6,705
JAPAN	0	0	4	324	0	0	124	7,152
CANADA	66	4,166	158	7,026	96	6,934	118	7,953
U.A.E.	75	2,673	145	6,188	446	27,418	86	6,033
SRI LANKA	2	195	0	0	16	858	69	2,591
NEWZEALAND	11	430	8	354	27	2,077	67	2,961
MALAYSIA	25	631	2	135	19	1,347	38	1,346
MAURITIUS	0	0	0	0	15	1,536	35	4,026
NEPAL	22	1,327	0	6	35	1,893	24	1,588
NETHERLANDS	0	107	1	399	0	0	16	894
SOUTH AFRICA	12	766	0	0	5	199	10	433
KUWAIT	30	1,170	28	747	56	3,456	9	735
BELGIUM	0	0	0	0	0	0	8	635
BAHRAIN	25	936	8	310	1	123	8	826
GERMANY	0	0	10	432	28	1,683	7	524
NIGERIA	0	0	0	0	0	0	3	95
ITALY	0	0	13	933	3	177	2	120
TOKELAU IS	0	0	0	0	0	0	1	90
NORWAY	0	0	1	51	1	113	1	72
REUNION	0	0	0	0	0	0	1	40
SAUDI ARABIA	78	3,827	27	1,156	23	1,080	1	20
MOZAMBIQUE	0	0	0	0	1	38	0	16
QATAR	28	810	1	58	0	0	0	20
KENYA	1	36	0	0	0	0	0	10
AUSTRIA	0	0	0	0	0	0	0	2
BOTSWANA	0	0	0	0	0	0	0	2
HONG KONG	0	0	0	0	0	0	0	0
FRANCE	7	112	0	0	12	1,086	0	0
MALAWI	0	0	0	0	1	99	0	0
UKRAINE	24	2,890	0	0	1	62	0	0
SWITZERLAND	2	85	0	0	0	15	0	0
MALDIVES	0	0	2	81	0	37	0	0
TRINIDAD AND TO	0	0	0	0	0	6	0	0
OMAN	76	1,532	2	91	0	6	0	0
CZECH REP.	0	0	9	479	0	0	0	0
POLAND	3	331	5	602	0	0	0	0
THAILAND	0	0	4	90	0	0	0	0
TANZANIA	0	0	0	7	0	0	0	0

(Table 5.2 continued on next page)

Table 5.2 – Export of other vegetables, prepared / preserved otherwise than by vinegar or acetic acid and frozen HS Code 20049000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
ARMENIA	3	401	0	0	0	0	0	0
AZER-BAIJAN	1	54	0	0	0	0	0	0
COLOMBIA	15	677	0	0	0	0	0	0
FINLAND	1,110	94,926	0	0	0	0	0	0
GEORGIA	6	664	0	0	0	0	0	0
KAZAKISTAN	62	5,210	0	0	0	0	0	0
LEBANON	0	14	0	0	0	0	0	0
UZBEKISTAN	2	274	0	0	0	0	0	0
Total	3,975	234,911	4,934	221,702	3,159	230,279	3,378	228,755

Source: APEDA / DGCIS / Department of Commerce, Government of India

5.2 Mixture of vegetables frozen

Table 5.3 – Export of mixtures of vegetables frozen, cooked or not HS Code 07109000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.A.E.	8,472	192,303	3,318	83,952	3,484	83,960	1,375	37,246
SAUDI ARABIA	3,693	83,174	1,930	57,727	1,453	44,610	1,343	37,018
U.S.A.	567	21,903	1,282	56,283	692	33,659	644	31,164
U.K.	1,069	39,553	638	29,046	745	44,387	621	27,967
QATAR	1,591	34,341	959	20,581	553	14,488	592	15,383
KUWAIT	1,214	29,089	446	12,096	334	9,329	436	13,903
CANADA	287	11,200	343	15,031	412	20,713	389	9,868
AUSTRALIA	200	2,044	73	3,358	163	10,468	282	12,873
MALDIVES	431	9,065	233	4,836	181	4,003	244	5,214
NEPAL	507	3,455	343	2,007	185	1,101	224	2,341
OMAN	765	13,398	311	8,666	159	5,196	213	5,989
BAHRAIN	1,186	22,651	285	5,848	224	6,146	201	7,314
BAHAMAS	53	1,121	304	8,317	216	5,938	89	2,345
BANGLADESH	115	988	0	0	2	12	60	773
NEWZEALAND	0	0	2	27	45	2,042	48	1,899
SOUTH AFRICA	100	1,333	0	0	0	0	23	233
SINGAPORE	88	2,548	6	112	4	132	17	377
MALAYSIA	27	203	75	570	0	0	10	716
IRELAND	0	0	0	0	0	0	5	117
NORWAY	1	43	2	117	0	0	4	234
BELGIUM	2	62	0	0	19	611	4	267
MAURITIUS	12	654	21	547	20	596	4	112
SPAIN	0	0	6	153	0	0	3	45
ITALY	2	36	16	437	21	218	3	94
NIGERIA	0	0	2	65	3	98	3	25
NETHERLANDS	8	374	4	313	1	21	2	57
HONG KONG	24	851	161	1,277	1	28	2	202
FRANCE	84	2,997	39	1,269	18	488	2	74

(Table 5.3 continued on next page)

Table 5.3 – Export of mixtures of vegetables frozen, cooked or not HS Code 07109000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
GABON	0	0	0	0	0	0	1	28
JAPAN	1	15	0	0	0	0	1	121
DENMARK	0	13	0	0	0	0	1	31
UKRAINE	193	5,215	31	900	408	12,366	0	0
ST. HELENA	49	936	700	20,588	308	9,165	0	0
KIRIBATI	21	454	0	0	223	6,997	0	0
PAKISTAN	0	22	12	90	150	991	0	0
BOSNIA-HRZGOVIN	0	0	21	562	84	2,356	0	0
SRI LANKA	50	286	325	1,984	74	803	0	0
MALI	0	1	2	425	27	563	0	0
SWITZERLAND	45	2,685	1	53	16	1,627	0	0
DOMINICAN REPUB	53	1,076	45	1,238	14	401	0	0
SWEDEN	3	63	0	0	8	261	0	0
OTHER COUNTRY	5	139	0	0	8	401	0	0
BRAZIL	0	0	0	0	6	119	0	0
ALBANIA	0	0	5	161	3	101	0	0
CHINA	20	267	0	0	3	167	0	0
BOTSWANA	0	0	0	0	1	46	0	0
AFGHANISTAN	0	0	0	0	1	40	0	0
UGANDA	0	0	0	0	1	22	0	0
INDONESIA	0	0	0	0	0	12	0	0
ZAIRE	0	0	0	0	0	2	0	0
SUDAN	82	2,418	90	2,250	0	0	0	0
ISREAL	0	0	40	288	0	0	0	0
GERMANY	25	581	10	735	0	0	0	0
GHANA	0	0	0	6	0	0	0	0
AMERICAN SAMOA	1	19	0	0	0	0	0	0
ANDORRA	0	2	0	0	0	0	0	0
ARUBA	0	3	0	0	0	0	0	0
AUSTRIA	1	7	0	0	0	0	0	0
BULGARIA	0	11	0	0	0	0	0	0
DOMINICA	1	24	0	0	0	0	0	0
FINLAND	2	28	0	0	0	0	0	0
GREECE	5	177	0	0	0	0	0	0
GUINEA	1	49	0	0	0	0	0	0
IRAN	14	849	0	0	0	0	0	0
KOREA REPUBLIC	30	1,355	0	0	0	0	0	0
LEBANON	4	80	0	0	0	0	0	0
MEXICO	0	3	0	0	0	0	0	0
PANAMA	1	24	0	0	0	0	0	0
PHILIPPINES	40	1,850	0	0	0	0	0	0
PUERTO RICO	1	21	0	0	0	0	0	0
SWAJILAND	0	20	0	0	0	0	0	0
SYRIAN ARAB REP	8	158	0	0	0	0	0	0
Total	21,152	492,236	12,081	341,913	10,270	324,684	6,844	214,028
Source: APEDA / DGCIS / Department of Commerce, Government of India								



Mix vegetables frozen

The commodities described under 07109000, 07108090 and 20049000 (sec. 5.1) appear similar. There is however a distinct difference in average export realizations of the three commodities.

Table 5.4 – Comparison of average export realization of other frozen vegetables and mixtures of vegetables frozen

HS Code	Average Export Realization Rs. / kg			
	2004-05	2005-06	2006-07	Apr-Dec 07
07108090	42.52	41.48	42.81	39.25
20049000	59.09	44.94	72.89	67.71
07109000	23.27	28.30	31.62	31.27



6. Export of prepared / preserved vegetables

6.1 Cucumbers & gherkins

Cucumbers and gherkins are classified under HS Codes 07114000 and 20011000. Total exports under the two codes amounted to 234,725 tons during 2006-07, 221,159 tons during 2005-06 and 115,110 during 2004-05. There has been a jump in exports of cucumbers and gherkins after 2004-05.

Table 6.1 – Export of cucumbers & gherkins provisionally preserved but unsuitable for instant consumption HS Code 07114000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.S.A	11,775	223,009	13,466	274,818	21,425	456,869	8,697	180,341
FRANCE	6,310	174,495	12,497	335,533	15,765	464,147	8,036	229,558
SPAIN	5,063	99,388	9,979	208,575	13,367	314,142	7,323	180,835
RUSSIA	5,706	104,117	28,058	483,867	11,052	200,362	5,592	99,807
BELGIUM	4,352	152,318	5,542	167,884	7,273	232,108	4,723	136,625
AUSTRALIA	1,240	21,315	1,949	35,034	3,302	61,242	2,164	36,556
CANADA	1,453	25,715	1,663	33,748	2,132	49,303	2,127	43,151
NETHERLANDS	1,208	17,604	1,283	17,606	1,571	34,357	1,307	20,719
PHILIPPINES	0	0	83	2,003	380	8,895	605	12,614
ESTONIA	1,530	20,848	3,530	58,118	3,740	68,549	489	8,183
ITALY	889	18,333	1,095	25,328	1,734	46,227	484	13,014
KOREA REPUBLIC	188	2,300	530	6,934	1,008	13,710	317	4,582
GREECE	125	1,139	198	2,952	361	7,710	254	5,214
LITHUANIA	667	10,954	671	10,759	359	5,736	251	3,723
GERMANY	220	5,291	518	9,560	956	21,049	231	4,444
CHINA	106	1,588	140	1,840	279	5,288	186	3,284
SOUTH AFRICA	13	490	497	12,384	304	6,501	179	3,663
BULGARIA	0	0	0	0	528	10,964	135	2,097
SAUDI ARABIA	69	1,851	102	2,679	132	4,165	133	3,814
SWEDEN	0	0	0	0	0	0	126	1,743
ISREAL	78	1,600	61	1,318	126	3,094	115	2,131
ALGERIA	0	0	0	0	215	6,277	112	4,132
JAPAN	66	1,084	71	1,200	97	1,737	112	1,800
KAZAKISTAN	0	0	57	1,194	250	4,439	104	1,959
POLAND	63	1,446	52	1,275	170	6,022	92	3,159
NEWZEALAND	43	506	103	1,698	83	1,677	86	1,466
UKRAINE	11	306	731	17,598	140	2,421	77	1,730
CZECH REP.	0	0	0	0	167	4,121	76	1,708
U.K.	670	9,512	1,174	12,358	1,009	13,971	75	2,256
TURKEY	12	323	0	0	55	1,351	74	2,032
THAILAND	0	0	29	461	43	735	60	997
PORTUGAL	0	0	0	0	13	185	52	792

(Table 6.1 continued on next page)



Table 6.1 – Export of cucumbers & gherkins provisionally preserved but unsuitable for instant consumption HS Code 07114000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
GEORGIA	0	0	324	3,873	263	5,057	47	1,025
ARGENTINA	29	671	68	1,921	73	2,159	43	1,161
ROMANIA	314	5,963	442	8,908	68	1,333	43	990
VENEZUELA	14	326	58	1,222	43	1,252	43	1,349
CROATIA	0	0	57	1,513	134	3,080	42	1,028
MEXICO	0	0	0	0	0	0	42	390
LEBANON	19	463	0	0	202	5,441	39	719
U.A.E.	53	663	18	419	31	1,049	32	1,193
TUNISIA	0	0	0	0	40	1,488	28	1,165
SRI LANKA	168	1,868	57	679	46	456	28	546
SLOVENIA	0	0	0	0	40	1,362	26	952
CYPRUS	0	0	12	409	0	0	25	622
ARMENIA	0	0	0	0	0	0	23	403
LATVIA	241	3,669	92	1,623	189	3,768	21	378
AUSTRIA	0	0	0	0	0	0	19	390
KUWAIT	0	0	0	0	0	0	17	505
CHILE	317	2,801	259	3,344	172	2,652	0	0
YUGOSLAVIA (SER)	13	464	13	416	51	1,383	0	0
KOREA DEM. REP.	41	595	14	171	41	650	0	0
NORFOLK ISLANDS	0	0	0	0	27	610	0	0
MOLDOVA	0	0	0	0	20	469	0	0
BRAZIL	0	0	0	0	15	362	0	0
BYELORUSSIA	0	0	67	1,133	14	411	0	0
BAHRAIN	0	0	0	0	1	10	0	0
SINGAPORE	0	0	0	0	1	8	0	0
MALDIVES	0	0	0	0	0	3	0	0
IRAN	0	0	133	3,030	0	0	0	0
PAKISTAN	0	0	48	951	0	0	0	0
OTHER COUNTRY	0	0	39	920	0	0	0	0
BANGLADESH	50	51	0	0	0	0	0	0
NEPAL	19	436	0	0	0	0	0	0
Total	43,135	913,502	85,777	1,757,256	89,509	2,090,357	44,913	1,030,945

Source: APEDA / DGCIS / Department of Commerce, Government of India

Table 6.2 – Export of cucumbers & gherkins prepared / preserved by acetic acid HS Code 20011000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
RUSSIA	32,335	495,323	76,671	1,349,134	61,897	1,110,676	26,655	438,570
U.S.A.	10,068	199,502	14,683	320,713	22,842	514,431	15,016	334,752
ESTONIA	3,556	54,584	3,484	54,463	8,385	140,870	5,987	104,581
BELGIUM	3,882	102,677	7,060	167,639	11,001	272,595	5,572	133,930
SPAIN	4,638	86,525	4,243	88,361	8,371	166,898	5,400	98,090
FRANCE	6,436	134,047	5,988	142,102	5,843	141,167	4,604	102,008
GERMANY	1,395	27,666	1,342	34,412	2,435	49,554	3,700	62,058
NETHERLANDS	3,010	58,598	7,828	152,324	5,445	106,310	3,421	62,314
AUSTRALIA	2,090	48,547	2,882	64,398	3,095	82,917	3,261	74,373
KAZAKISTAN	0	0	0	0	533	11,144	1,860	33,580
UKRAINE	48	661	1,746	32,053	2,715	54,066	1,444	26,334
CANADA	293	5,193	2,492	59,587	3,976	94,659	1,267	25,711
LATVIA	894	14,988	1,111	20,658	1,319	24,644	788	13,561
LITHUANIA	45	656	521	7,450	1,009	15,891	722	11,316
GEORGIA	97	1,596	336	5,488	1,002	18,566	699	12,464
NEWZEALAND	738	16,546	898	23,096	940	22,479	586	13,145
U.A.E.	55	1,187	179	4,112	322	8,819	503	15,295
JORDAN	0	0	27	1,227	169	4,910	409	10,997
ISREAL	86	2,547	373	8,384	734	17,677	333	6,972
U.K.	196	4,843	276	6,699	208	6,485	291	6,534
QATAR	0	0	29	1,128	156	4,667	173	4,600
IRAN	0	0	64	1,433	24	485	165	2,749
ITALY	270	4,388	174	3,619	318	8,284	163	3,756
CHINA	0	0	147	2,022	78	1,585	130	2,353
SOUTH AFRICA	116	2,371	0	0	68	1,610	120	2,329
OMAN	0	0	0	0	77	2,400	117	2,686
BULGARIA	0	0	195	3,038	22	365	114	2,048
KOREA REPUBLIC	462	8,934	460	9,199	383	8,550	109	1,972
CYPRUS	22	454	33	833	115	2,671	100	1,793
AZER-BAJAN	0	0	0	0	39	642	100	1,779

(Table 6.2 continued on next page)



Table 6.2 – Export of cucumbers & gherkins prepared / preserved by acetic acid HS Code 20011000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
CROATIA	0	0	0	0	147	3,018	90	1,646
SWEDEN	0	0	62	1,237	83	2,799	77	2,699
KUWAIT	0	0	33	1,079	94	2,233	69	1,706
SAUDI ARABIA	0	0	159	4,628	206	5,571	67	1,275
DENMARK	22	533	0	0	119	2,436	64	2,041
SINGAPORE	21	524	42	889	47	1,157	62	1,721
MALAYSIA	1	10	0	0	37	845	39	971
ALGERIA	0	0	0	0	47	1,209	39	702
BAHRAIN	11	143	0	0	44	1,209	34	852
SLOVENIA	0	0	0	0	0	0	26	875
MAURITIUS	0	0	0	0	7	253	22	601
ARGENTINA	0	0	41	995	14	436	21	404
THAILAND	0	0	0	0	29	480	20	412
TUNISIA	0	0	0	0	0	0	19	480
POLAND	0	0	0	0	29	875	18	360
KENYA	0	0	0	0	19	1,069	16	758
JAPAN	1	18	52	860	32	874	15	476
GREECE	13	439	13	426	0	0	14	139
YOGOSLAVIA (SER	0	0	0	0	256	6,060	0	0
ROMANIA	313	4,549	608	8,910	202	3,145	0	0
BYELORUSSIA	0	0	120	2,821	99	2,454	0	0
HUNGARY	148	2,661	0	0	70	1,008	0	0
ARMENIA	0	0	83	1,653	60	1,652	0	0
SRI LANKA	61	614	41	1,001	29	501	0	0
LEBANON	0	0	0	0	16	444	0	0
BANGLADESH	0	0	0	0	4	72	0	0
UGANDA	0	0	0	0	3	102	0	0
SEYCHELLES	0	0	0	0	1	25	0	0
SWITZERLAND	0	0	0	0	0	0	0	0
OTHER COUNTRY	21	211	646	16,125	0	0	0	0
PHILIPPINES	235	5,161	111	2,368	0	0	0	0
AUSTRIA	0	0	92	2,395	0	0	0	0
FINLAND	0	0	15	373	0	0	0	0
NEPAL	13	357	10	133	0	0	0	0
HONG KONG	0	0	10	313	0	0	0	0
EGYPT	0	0	1	33	0	0	0	0
TOGO	0	0	0	5	0	0	0	0
CUBA	2	31	0	0	0	0	0	0
CZECH REP.	225	3,428	0	0	0	0	0	0
IRELAND	22	598	0	0	0	0	0	0
KOREA DEM. REP.	41	564	0	0	0	0	0	0
NORFOLK ISLANDS	12	164	0	0	0	0	0	0
NORWAY	41	721	0	0	0	0	0	0
TURKEY	26	753	0	0	0	0	0	0
VENEZUELA	13	157	0	0	0	0	0	0
Total	71,976	1,293,471	135,382	2,609,814	145,216	2,935,948	84,521	1,630,769
Source: APEDA / DGCIS / Department of Commerce, Government of India								

Gherkin (*Cucumis sativus* L.), is a cucurbitaceous vegetable crop of 90 days duration, which is harvested raw for pickling. The product has negligible domestic market and the cultivation is exclusively for exports. Gherkins are grown for exports in the states of Karnataka, Tamil Nadu and Andhra Pradesh. At the end of March 2005, there were 22 EOUs under Gherkin in Karnataka, mostly located in Bangalore except two in Hassan and one at Chintamani in Kolar district.

The crop was introduced to India only in 1990 as the crop can be cultivated round the year unlike other major producing countries like Mexico, Hungary and Madagascar, where it can be cultivated only for three months in a year. Further, Gherkin is a labor-intensive crop, and, hence, the cost of cultivation is lower in labor surplus country like India compared to Europe and America. For this reason, industries engaged in marketing of gherkin abroad prefer to procure the produce from India.

Export-Oriented Units (EOUs) engaged in Gherkin exports procure the produce from farmers, who grow the crop under contract farming arrangements. After grading, sorting and washing the fruits, it is preserved in appropriate media like Acetic Acid, vinegar or Brine Solution for bulk exports in large jars and bottled as pickles by the importing country or directly processed as pickles and bottled in India itself for exports. The media used for preservation and other ingredients in the bottled pickles depend on customer's choice and at times are provided by importers from abroad.

EOUs have two types of contract arrangements. In the first model, a team of field workers visits villages and explains to farmers about gherkin for cultivation of which various inputs and services are offered by the EOU. They also explain responsibilities of the farmers. Once a farmer consents to grow gherkin on behalf of the EOU, a bipartite agreement is entered into between the company and the farmer. The EOUs provide identity card and a pass book to the farmer to record the supply of inputs, application of pesticides and fertilizers, quantities of produce procured, etc. The EOUs also depend on a second model of contract in which "Facilitators" are entrusted to procure bulk of gherkin instead of contracting with individual farmers. "Facilitators" agree to supply a definite quantum of gherkin in a season and take the responsibility of supplying inputs like seeds, pesticides and fertilizers to farmers. They act as intermediary between the EOU and farmers.

Global demand for gherkin is estimated at around 1.5 mio tons and the supply from India works out to about 15 per cent of the demand. The problem with the Indian Gherkin Industry is the low yield. While well managed gardens are getting a yield of 7 to 8 tons per acre, overall average is reported to be only 2.5 tons per acre as against a potential yield of 20 tons per acre. The focus of the gherkin industry is, therefore, on increasing the yield by pest and disease management and improving irrigation facilities.

Table 6.3 – Comparison of average export realization of cucumbers & gherkins

HS Code	Average Realization Rs. / kg			
	2004-05	2005-06	2006-07	Apr-Dec 07
07114000	21.18	20.49	23.35	22.95
20011000	17.97	19.28	20.22	19.29

The EOUs have firm relations with retail chains in Europe and America. Hence, the prices are relatively stable.

6.2 Mushrooms

**Table 6.4 – Export of mushrooms prepared / preserved otherwise than by acetic acid
HS Code 20031000**

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.S.A.	17,130	589,148	9,101	346,456	16,748	748,550	1,228	64,775
ISRAEL	6,397	226,758	1,990	68,809	2,959	115,212	442	22,286
MEXICO	0	0	736	28,606	2,907	122,220	119	5,815
ROMANIA	200	3,099	0	0	70	2,497	40	1,999
RUSSIA	162	7,933	0	0	495	20,537	20	834
NIGERIA	0	0	0	0	0	0	0	12
CANADA	20	954	61	2,608	1,195	52,519	0	0
NETHERLANDS	279	5,195	218	4,178	119	3,226	0	0
CHINESE TAIPEI	0	0	0	0	80	1,833	0	0
GUATEMALA	0	0	0	0	74	3,218	0	0
UKRAINE	0	0	20	579	58	2,254	0	0
SINGAPORE	0	0	0	119	50	3,477	0	0
KOREA REP.	0	0	0	31	19	805	0	0
JAPAN	0	0	0	0	15	308	0	0
CHINA	0	0	0	0	2	112	0	0
SWEDEN	22	467	107	3,183	0	0	0	0
ESTONIA	40	882	100	2,650	0	0	0	0
IRELAND	0	0	40	1,224	0	0	0	0
SWITZERLAND	40	1,783	35	2,192	0	0	0	0
BANGLADESH	0	0	20	836	0	0	0	0
FRANCE	1	74	20	6,542	0	0	0	0
GERMANY	10	540	10	779	0	0	0	0
U.K.	0	0	9	642	0	0	0	0
ICELAND	0	0	1	28	0	0	0	0
FINLAND	20	1,083	0	0	0	0	0	0
INDONESIA	62	1,484	0	0	0	0	0	0
MALAYSIA	19	1,790	0	0	0	0	0	0
MAURITIUS	9	872	0	0	0	0	0	0
TUNISIA	22	2,451	0	0	0	0	0	0
Total	24,432	844,513	12,469	469,461	24,790	1,076,768	1,849	95,720

Source: APEDA / DGCIS / Department of Commerce, Government of India

Like gherkins, mushrooms are cultivated in India with an eye on exports. Domestic consumption of mushrooms is low.

Haryana, Punjab and Uttaranchal are the leading states in production of mushrooms. Tamil Nadu, Uttar Pradesh, Jammu region of Jammu & Kashmir and Himachal Pradesh are other leading states.

Agro Dutch Industries, a Chandigarh-based company, and Himalaya International Ltd are the two largest producers and exporters of mushrooms in India.

Average export realizations for mushrooms were Rs. 34.57 per kg in 2004-05, Rs. 37.65 per kg in 2005-06, Rs. 43.44 per kg during 2006-07 and Rs. 51.77 per kg during April – December 2007.

6.3 Homogenized vegetables

Table 6.5 – Export of homogenized vegetables prepared / preserved otherwise than by acetic acid not frozen HS Code 20051000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.S.A.	12	1,356	442	33,709	1,266	86,955	1,966	134,796
AUSTRALIA	0	0	7	561	517	29,272	413	24,122
U.K.	20	815	55	3,981	0	0	157	6,507
CANADA	0	0	3	236	0	0	42	3,020
U.A.E.	0	0	8	616	66	3,112	42	1,703
ITALY	0	0	0	0	0	0	20	853
JAPAN	0	0	0	0	1	41	17	971
NEPAL	0	0	22	760	0	0	1	10
GERMANY	0	0	42	3,414	2	237	1	27
SINGAPORE	0	0	6	537	3	160	0	5
BRAZIL	0	0	0	0	15	765	0	0
BRUNEI	0	0	0	0	5	410	0	0
KUWAIT	0	0	0	0	3	122	0	0
MALAYSIA	0	0	3	286	0	0	0	0
MAURITIUS	0	0	3	111	0	0	0	0
BAHRAIN	0	7	3	228	0	0	0	0
PORTUGAL	0	0	3	246	0	0	0	0
NETHERLANDS	0	0	3	234	0	0	0	0
MALAGASAY REP	0	2	0	0	0	0	0	0
UKRAINE	26	721	0	0	0	0	0	0
Total	59	2,902	599	44,919	1,878	121,074	2,658	172,015

Source: APEDA / DGCIS / Department of Commerce, Government of India

For the purposes of sub-heading No. 2005.10, the expression "homogenized vegetables" means preparations of vegetables, finely homogenized, put up for retail sale as infant food or for dietetic purposes, in containers of a net weight content not exceeding 250 g. For the application of this definition no account is to be taken of small quantities of any ingredients which may have been added to the preparation for seasoning, preservation or other purposes. These preparations may contain a small quantity of visible pieces of vegetables. Sub-heading No. 2005.10 takes precedence over all other sub-headings of heading No. 20.05.

Average export realizations for homogenized vegetables were Rs. 49.35 per kg in 2004-05, Rs. 75.04 per kg in 2005-06, Rs. 64.48 per kg during 2006-07 and Rs. 64.71 per kg during April – December 2007.

Exports of homogenized vegetables have been growing steadily from a miniscule 59 tons in 2004-05 to 2,658 tons in April-December 2007.

It is interesting to note that homogenized vegetables are being manufactured in India and exported to developed countries like USA, Australia and UK even though there are practically no sales of homogenized vegetables within India.

6.4 Other vegetables (including pickles)

Table 6.6 – Export of other vegetables and mixtures prepared / preserved otherwise than by acetic acid not frozen HS Code 20059000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.S.A.	1,355	54,235	3,743	135,978	7,192	289,544	2,865	147,723
U.A.E.	539	21,487	786	29,036	710	35,940	840	36,255
U.K.	81	5,231	647	31,453	1,266	67,256	787	36,215
AUSTRALIA	75	2,744	581	23,510	992	38,746	690	31,515
SOUTH AFRICA	0	6	90	3,184	737	20,849	523	14,241
KUWAIT	283	11,090	329	14,049	205	9,963	259	11,952
CANADA	76	5,664	1,144	48,106	911	38,454	218	9,656
GERMANY	5	337	213	8,137	348	13,574	192	6,521
SAUDI ARABIA	307	12,050	263	11,021	397	16,081	162	6,289
SINGAPORE	241	8,959	483	16,682	259	11,828	144	5,256
JAPAN	19	1,183	34	1,165	172	6,407	115	3,784
NEWZEALAND	71	1,688	23	790	92	3,237	101	3,965
OMAN	41	1,920	109	3,544	99	4,337	90	3,516
QATAR	18	847	59	2,598	128	5,938	77	2,562
MALAYSIA	31	808	95	3,208	134	4,827	62	1,755
BAHRAIN	26	890	81	2,934	92	3,399	57	2,251
FRANCE	0	0	3	132	18	833	39	1,329
BELGIUM	12	621	81	3,604	55	2,853	36	1,397
KOREA REP	0	0	15	532	19	1,179	25	928
NEPAL	31	177	13	463	3	173	22	1,375
ITALY	0	0	0	0	17	987	21	1,245
HONG KONG	1	95	14	384	33	1,238	20	692
SPAIN	0	0	40	972	15	631	15	607
NIGERIA	0	0	0	0	3	66	9	181
KENYA	0	0	0	0	0	0	8	260
NETHERLANDS	3	216	4	272	64	2,403	8	336
MAURITIUS	0	0	5	233	18	1,254	5	164
DENMARK	0	0	0	0	0	0	4	293
AFGHANISTAN TIS	0	0	0	0	0	0	3	493
SRI LANKA	12	481	0	0	0	0	2	99
PANAMA REP	0	0	0	0	0	0	2	53
CONGO P REP	0	0	0	0	0	0	0	13
AUSTRIA	0	0	0	0	0	0	0	25
BOTSWANA	0	0	0	0	4	187	0	10
BENIN	0	0	0	0	0	3	0	3
SWITZERLAND	3	117	18	1,192	20	735	0	5
SYRIAN AR REP	33	987	0	0	0	0	0	1

(Table 6.6 continued on next page)

Table 6.6 – Export of other vegetables and mixtures prepared / preserved otherwise than by acetic acid not frozen HS Code 20059000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
OTHER COUNTRY	0	0	0	0	28	934	0	0
ISREAL	1	62	16	591	23	873	0	0
RUSSIA	23	345	0	0	10	593	0	0
UKRAINE	0	0	0	0	4	176	0	0
PORTUGAL	0	45	3	112	3	93	0	0
NORWAY	0	0	0	0	2	33	0	0
FIJI	0	0	0	12	1	59	0	0
ANGOLA	0	0	0	0	1	46	0	0
IRELAND	0	0	0	0	1	44	0	0
ZAMBIA	0	0	0	0	1	19	0	0
YAMEN ARAB REP	0	0	0	0	0	4	0	0
SWEDEN	0	0	70	2,704	0	0	0	0
JORDAN	0	0	41	1,063	0	0	0	0
TRINIDAD AND TO	0	0	17	415	0	0	0	0
TANZANIA	0	56	2	65	0	0	0	0
CHINA	0	0	2	70	0	0	0	0
ROMANIA	0	0	1	51	0	0	0	0
REUNION	0	0	1	44	0	0	0	0
PHILIPPINES	0	15	1	16	0	0	0	0
LIBERIA	0	0	0	6	0	0	0	0
MALDIVES	3	49	0	3	0	0	0	0
POLAND	0	0	0	1	0	0	0	0
COMOROS	0	0	0	0	0	0	0	0
ERITREA	1	121	0	0	0	0	0	0
INDONESIA	4	135	0	0	0	0	0	0
Total	3,295	132,659	9,030	348,333	14,078	585,796	7,398	332,965

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average export realizations for other vegetables and mixtures prepared / preserved were Rs. 40.26 per kg in 2004-05, Rs. 38.58 per kg in 2005-06, Rs. 41.61 per kg during 2006-07 and Rs. 45.01 per kg during April – December 2007.

Table 6.7 – Export of other edible parts of plants prepared / preserved by vinegar / acetic acid HS Code 20019000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U K	4,803	176,744	6,668	232,196	10,101	363,372	8,640	319,672
CANADA	671	29,020	2,211	66,725	8,381	203,107	6,721	142,528
U S A	2,381	108,984	2,565	123,309	3,664	138,239	3,577	140,804
U ARAB EMTS	2,118	76,213	1,822	59,741	3,128	130,929	2,475	90,338
OMAN	418	11,662	240	7,284	615	20,591	1,371	44,287
SAUDI ARAB	1,162	34,768	979	32,464	1,784	49,989	924	29,645
AUSTRALIA	536	20,191	623	21,885	852	30,493	887	37,977
IRAQ	35	1,412			20	767	645	19,588

(Table 6.7 continued on next page)

**Table 6.7 – Export of other edible parts of plants prepared / preserved by vinegar / acetic acid
HS Code 20019000 (Continued)**

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
KUWAIT	436	11,766	522	14,898	873	27,694	549	16,140
SWEDEN	256	10,252	347	15,515	371	17,623	418	17,414
GERMANY	497	20,685	266	11,960	446	19,012	339	12,152
SPAIN	56	2,288	43	1,208	168	5,182	311	8,044
SINGAPORE	158	7,101	326	13,674	288	9,437	280	8,210
JAPAN	458	19,220	514	25,507	664	32,425	259	8,668
YEMEN REUBLIC	70	1,636	230	10,754	736	18,474	237	11,952
BAHARAIN IS	250	6,590	193	5,410	347	9,572	231	6,226
NEW ZEALAND	95	2,060	71	2,593	283	8,061	213	6,555
NETHERLAND	251	8,495	336	13,093	147	4,770	193	6,154
QATAR	142	4,706	158	6,119	514	13,019	189	6,050
RUSSIA			488	10,297	4	183	153	2,895
FRANCE	36	1,141	70	4,400	90	3,891	79	2,392
JORDAN	105	3,364	217	6,999	244	8,617	73	3,759
LITHUANIA					20	620	64	1,639
SRI LANKA DSR	25	526	76	1,999	38	1,597	47	2,566
HONG KONG	56	2,171	46	1,522	61	2,138	47	1,658
NEPAL	51	2,167	8	251	51	5,474	45	1,734
POLAND			36	394	21	1,364	45	1,259
INDONESIA	14	605	36	2,772			41	3,242
THAILAND	29	807	12	653	5	218	41	2,731
ISRAEL	50	1,416	65	1,831	73	2,024	39	2,165
KAZAKHSTAN					2	47	39	855
ITALY	33	1,159	50	1,774	75	3,408	37	2,558
IRAN	22	796	17	876	51	2,894	36	1,365
FUJIS	31	1,019	43	1,089	39	1,290	36	731
SOUTH AFRICA	28	972	96	4,913	64	1,938	35	1,064
DENMARK	206	7,481	124	4,493	75	4,193	32	1,219
TANZANIA REP	17	376	1	63	53	1,627	30	511
IRELAND			4	291	2	71	27	907
ARUBA							23	923
PHILIPPINES	7	190	2	147	4	180	21	1,128
CHILE	39	1,241	19	704	31	1,406	21	785
SUDAN	0	5	0	0	0	18	20	1,673
SYRIA							18	858
UNSPECIFIED	12	293	1	74			14	1,001
ARGENTINA			10	236			12	540
KENYA	8	204	54	1,592	16	252	11	497
SWITZERLAND	37	1,642	19	486	62	2,054	10	401
VIETNAM SOC REP			62	1,509	20	688	10	326
TAIWAN	60	3,723	57	2,837	11	488	10	264
FINLAND	21	1,105	18	730	38	1,894	8	585
CZECH REPUBLIC	5	205	12	565	7	298	7	251

(Table 6.7 continued on next page)

**Table 6.7 – Export of other edible parts of plants prepared / preserved by vinegar / acetic acid
HS Code 20019000 (Continued)**

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
MAURITIUS	18	591	35	1,475	30	1,267	6	571
MALAYSIA	1,379	29,024	966	23,853	60	2,030	4	445
BELGIUM	24	1,098	24	1,591	0	11	4	374
BRAZIL	10	309					4	296
CYPRUS					1	19	4	234
NIGERIA	1	41	1	28	9	457	4	137
PORTUGAL	127	6,761	17	885			3	257
MALDIVES	12	285	6	264	7	261	3	228
EGYPT A RP	4	161	3	143			2	185
UGANDA			8	1,568	33	1,325	1	117
MOZAMBIQUE	0	22	3	97	1	33	1	67
MALAWI	1	18	1	40	0	6	1	64
GREECE			0	1	1	48	1	48
BOTSWANA	0	17	3	115	17	292	1	32
AUSTRIA			2	55	0	40	1	20
COTE D'IVOIRE			0	4			1	17
REUNION			0	13	2	73	0	20
TOGO			0	1	0	1	0	13
NORWAY			1	45	2	73	0	12
BANGLADESH PR	10	233	13	267			0	11
CAMBODIA							0	9
LIBERIA	0	7	1	19	0	7	0	8
GUINEA			0	0	0	3	0	5
CAMEROON							0	4
SURINAME	1	57					0	3
MACAO			2	90			0	3
ARMENIA			40	1,986				
AFGHANISTAN TIS	10	1,007						
BENIN					4	115		
BHUTAN	20	782						
BRUNEI	2	49	6	183				
BELARUS					1	40		
CHINA P RP			10	377				
COLOMBIA	15	288						
COMOROS	0	0						
CONGO P REP	1	25	1	21	1	43		
DOMINIC REP			0	7				
ETHIOPIA			0	1				
GAMBIA	0	8						
GEORGIA	0	0						
GHANA			0	12	0	6		
ICELAND			2	115				
KYRGYZSTAN					7	374		
KOREA DP RP	0	0						

(Table 6.7 continued on next page)

**Table 6.7 – Export of other edible parts of plants prepared / preserved by vinegar / acetic acid
HS Code 20019000 (Continued)**

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
KOREA RP	23	2,672	67	4,420	0	1		
LEBANON	9	275	2	85	56	1,534		
MADAGASCAR	0	4						
MALTA			2	53	2	63		
MEXICO					12	359		
MYANMAR	0	15						
NETHERLAND ANTIL			0	10	1	27		
NICARAGUA	0	3						
NIGER	0	4						
PAKISTAN IR	1	90	2	110				
PANAMA REPUBLIC	22	442						
PAPUA NGUA	1	122	2	48				
PERU					0	3		
ROMANIA			22	593	12	533		
SENEGAL			0	7				
SEYCHELLES	3	175						
SWAZILAND					1	38		
TRINIDAD	0	15			0	0		
UKRAINE					4	485		
VENEZUELA			0	7				
ZAMBIA			0	12				
TOTAL	17,380	631,001	20,999	756,433	34,803	1,161,195	29,634	980,064

Source: APEDA / DGCIS / Department of Commerce, Government of India



The term, prepared and preserved vegetables, in relation to India generally means spicy pickles for which India is famous. Pickles are either made in oil or in vinegar. HS Code 20059000 relates to pickles in oil, while 20019000 covers pickles in vinegar.

7. Export of dried vegetables

7.1 Dried onions

Table 7.1 – Export of dried onions, whole / cut / sliced / broken / powder form HS Code 07122000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
BANGLADESH	352	10,197	54	3,661	68	1,322	23,753	457,286
GERMANY	1,386	83,842	1,992	120,756	2,955	202,747	15,407	395,572
U.S.A.	933	58,351	1,693	106,646	3,812	315,402	1,906	165,486
U.K.	501	22,842	1,363	71,058	1,889	135,461	1,531	131,003
RUSSIA	83	5,506	854	46,294	1,949	145,755	1,355	151,625
SRI LANKA	359	4,492	606	12,056	541	12,328	1,198	23,880
SOUTH AFRICA	293	16,317	647	33,077	810	53,412	906	112,093
BRAZIL	326	19,783	396	19,701	709	42,794	902	58,019
MALAYSIA	3	297	10,972	244,198	836	16,524	745	23,657
NETHERLANDS	561	31,160	721	37,949	1,112	70,022	636	58,441
AUSTRALIA	582	25,233	884	35,330	749	43,059	534	27,594
FINLAND	57	4,613	388	32,489	496	44,124	380	29,915
BELGIUM	201	11,730	233	13,594	397	27,641	351	18,927
CANADA	220	12,823	511	28,814	704	42,698	304	23,886
NAMIBIA	0	0	0	0	187	20,451	297	16,847
PHILIPPINES	104	5,349	142	6,258	273	31,068	217	18,570
GREECE	16	774	114	5,724	167	9,341	203	18,730
NEWZEALAND	36	2,225	235	15,184	200	15,506	200	16,013
FRANCE	0	0	164	9,735	217	17,267	193	18,375
POLAND	316	17,919	530	26,868	507	36,938	189	18,965
SPAIN	143	7,793	582	22,497	276	12,731	180	16,085
JAPAN	48	1,239	85	4,211	42	1,924	169	7,126
COLOMBIA	47	2,756	258	14,514	358	21,373	153	11,010
NORWAY	18	1,441	0	0	106	8,759	145	14,633
DOMINICAN REP	0	0	67	3,970	180	11,382	112	6,998
LITHUANIA	0	0	33	2,146	0	0	104	7,229
ISREAL	114	6,163	14	824	234	14,244	103	6,367
GHANA	0	0	0	0	0	0	100	3,263
LATVIA	59	3,297	122	6,142	25	1,207	85	9,728
DENMARK	48	3,569	215	15,613	337	27,148	83	9,235
U.A.E.	9,937	74,356	125	3,568	95	3,463	80	5,972
SWEDEN	0	0	60	4,252	123	9,527	77	7,212
GUATEMALA	87	6,688	200	13,298	204	13,573	75	5,629
BULGARIA	31	1,775	64	3,042	22	1,437	74	8,910
ITALY	69	4,231	167	8,696	242	16,085	72	6,017
IRELAND	15	971	7	429	23	1,656	61	3,600
MALDIVES	0	5	131	2,820	215	3,112	51	1,130
ARGENTINA	31	1,618	107	5,031	53	2,558	48	4,015
SYRIA	0	0	0	0	0	0	44	3,060

(Table 7.1 continued on next page)

Table 7.1 – Export of dried onions, whole / cut / sliced / broken / powder form HS Code 07122000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
SAUDI ARABIA	8	640	25	1,569	83	5,089	42	2,654
CHINA	0	0	0	0	144	8,593	41	3,592
NIGERIA	26	1,127	127	5,725	240	10,774	30	1,237
MOROCCO	0	0	20	1,203	0	0	27	2,318
NEPAL	130	1,070	2	74	32	1,157	26	893
NIGER	0	0	9	95	104	5,412	25	2,017
UKRAINE	0	0	16	706	0	103	17	1,714
CROATIA	0	0	0	0	17	852	17	1,646
OMAN	266	2,084	12	1,049	11	961	16	755
SINGAPORE	5	260	372	7,280	46	1,790	15	1,013
THAILAND	0	0	0	0	0	0	15	1,228
VENEZUELA	0	0	62	3,864	93	6,132	15	1,708
INDONESIA	0	0	0	0	5	255	14	1,440
JORDAN	5	366	0	0	12	1,125	14	1,228
CHILE	83	3,985	243	12,022	253	13,168	14	448
ECUADOR	0	0	52	3,014	39	2,442	13	780
PORTUGAL	17	1,064	16	897	63	4,008	13	903
KOREA REPUBLIC	0	0	5	470	47	3,935	10	1,162
CZECH REP.	21	1,219	0	0	0	0	7	655
TAIWAN	0	0	0	0	0	0	6	596
GREENLAND	0	0	7	302	0	0	5	853
HONG KONG	0	7	0	0	0	0	1	102
MAURITIUS	2	332	2	73	783	14,900	1	18
MACEDONIA	0	0	0	0	0	0	0	478
BRUNEI	0	0	530	13,461	147	2,850	0	0
MEXICO	0	0	58	2,859	134	5,136	0	0
REUNION	0	0	75	1,018	100	774	0	0
TURKEY	23	1,166	31	1,906	81	5,967	0	0
COSTA RICA	0	0	0	0	60	4,027	0	0
LAO PD.DEM.REP.	0	0	0	0	59	5,655	0	0
HONDURAS	0	0	0	0	52	3,713	0	0
OTHER COUNTRY	0	0	0	0	47	3,932	0	0
PUERTO RICO	0	0	24	1,721	45	3,545	0	0
PAKISTAN	0	0	108	4,580	37	1,319	0	0
BAHRAIN	0	19	5	67	35	1,041	0	0
KENYA	5	109	0	0	35	1,737	0	0
LIECHTENSTEIN	0	0	0	0	27	2,321	0	0
PERU	0	0	0	0	26	2,430	0	0
BOLIVIA	0	0	0	0	23	1,784	0	0
SUDAN	0	0	0	0	19	380	0	0



(Table 7.1 continued on next page)

Table 7.1 – Export of dried onions, whole / cut / sliced / broken / powder form HS Code 07122000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
ST. PIERRA & MI	0	0	0	0	18	1,429	0	0
AUSTRIA	0	0	161	4,450	17	540	0	0
HAITI	0	0	0	0	17	1,592	0	0
TUNISIA	0	0	0	0	15	1,573	0	0
ROMANIA	22	1,077	57	2,486	15	736	0	0
SWITZERLAND	0	0	0	0	15	750	0	0
MALI	0	0	0	0	14	1,635	0	0
ANDORRA	0	0	0	0	13	396	0	0
SOMALIA	0	0	0	0	11	906	0	0
TONGA	0	0	0	0	9	716	0	0
BENIN	0	0	2	63	9	487	0	0
BARBODOS	0	0	0	0	9	923	0	0
CHINESE TAIPEI	4	291	6	367	5	253	0	0
KUWAIT	0	0	0	3	3	214	0	0
YAMEN AR REP	0	0	0	0	0	28	0	0
FIJI	0	0	0	0	0	7	0	0
NETHERLAND ANT	0	0	69	3,259	0	0	0	0
TURKMENISTAN	0	0	17	807	0	0	0	0
ICELAND	0	0	15	756	0	0	0	0
MALTA	10	239	12	175	0	0	0	0
QATAR	180	1,353	1	16	0	0	0	0
SLOVENIA	51	3,033	0	0	0	0	0	0
UNSPECIFIED	0	0	0	0	0	0	229	21,972
Total	17,837	468,794	26,879	1,056,779	24,182	1,573,529	53,635	1,973,511

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from exports were Rs. 36.80 / kg for Apr-Dec 2007, Rs. 65.07 / kg for 2006-07. Rs. 39.32 / kg for 2005-06 and Rs. 26.28 / kg for 2004-05.

The sharp rise in exports during April-December 2007 is striking. Exports for just nine months are more than double of exports during any previous year.

Onion dehydration industry is concentrated in coastal districts of Gujarat and some parts of Maharashtra. Jain Irrigation Systems Ltd, a company based in Maharashtra, is a major player in the segment. They claim to be doing 40 per cent of India's dehydrated onion exports.

7.2 Dried mushrooms

Table 7.2 – Export of dried mushrooms, whole / cut / sliced / broken HS Code 07123100

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
GERMANY	47	85,147	43	74,144	47	71,623	23	30,112
CANADA	20	26,006	7	7,280	11	11,587	14	13,121
FRANCE	4	14,305	23	112,295	19	125,712	11	54,913
SWITZERLAND	9	41,354	16	93,225	10	84,288	9	76,600
U.S.A.	10	10,684	11	12,128	3	2,796	3	3,154
HONG KONG	0	0	1	2,264	1	2,352	0	2,361
SWEDEN	1	1,612	0	653	0	976	0	1,437
NEPAL	0	734	0	0	0	0	0	188
AUSTRIA	1	1,493	0	0	0	0	0	9
SAUDI ARABIA	0	0	0	0	14	15,467	0	0
U.K.	4	9,989	0	277	3	8,759	0	0
U.A.E.	0	0	0	257	3	575	0	0
QATAR	0	0	0	0	2	1,337	0	0
SWAJILAND	0	0	0	0	1	5,343	0	0
CHINA	0	0	0	755	1	1,401	0	0
DENMARK	5	7,573	0	0	1	1,081	0	0
BAHRAIN	0	0	0	0	0	1,924	0	0
AFGHANISTAN	0	0	0	0	0	852	0	0
THAILAND	0	476	4	1,286	0	72	0	0
BANGLADESH	0	0	20	2,160	0	0	0	0
ISREAL	5	2,711	4	1,195	0	0	0	0
JAPAN	0	787	0	1,597	0	0	0	0
PAKISTAN	0	0	0	313	0	0	0	0
SPAIN	2	8,994	0	0	0	0	0	0
Total	107	211,866	129	309,829	114	336,147	60	181,895

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from exports were Rs. 3,029 / kg for Apr-Dec 2007, Rs. 2,940 / kg for 2006-07. Rs. 2,393 / kg for 2005-06 and Rs. 1,987 / kg for 2004-05.

Dried mushrooms constitute a very small percentage of India's mushroom exports. There seem to be no factors indicating any significant change in this segment.



7.3 Dried tamarind

Table 7.3 – Export of dried tamarind HS Code 08134010

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.A.E.	1,078	25,908	1,948	44,206	3,679	87,195	3,163	66,572
EGYPT	825	17,850	1,226	34,098	1,057	32,528	1,371	35,674
SYRIAN ARAB REP	372	11,873	1,208	32,050	1,597	50,305	973	29,344
SAUDI ARABIA	564	12,188	836	19,298	793	19,483	797	17,737
YAMEN ARAB REP	315	5,064	676	10,791	583	12,829	707	13,947
U.S.A.	339	5,210	518	10,275	350	7,076	437	8,300
U.K.	311	10,607	568	23,355	526	20,417	346	12,113
JORDAN	0	0	79	2,301	81	2,473	270	6,137
OMAN	188	3,295	214	3,273	292	5,991	221	4,644
BANGLADESH	309	1,827	137	988	1,434	7,324	215	3,546
QATAR	97	2,074	119	2,307	157	4,181	210	4,634
INDONESIA	36	1,759	51	1,945	40	1,633	124	5,355
SRI LANKA	0	4	152	1,327	0	0	102	1,963
NETHERLANDS	0	0	100	1,819	2	154	100	1,784
KUWAIT	136	1,608	254	6,077	183	4,112	99	2,989
DJIBOUTI	116	4,584	207	6,387	237	7,798	96	2,942
AUSTRALIA	73	1,021	65	1,304	113	1,425	82	1,562
KOREA REPUBLIC	90	2,119	213	3,837	102	2,903	81	1,849
LEBANON	7	181	27	712	90	2,950	69	2,203
ITALY	0	0	16	767	0	0	69	3,398
SINGAPORE	33	355	111	3,449	156	6,573	64	2,965
BAHRAIN	183	2,566	102	1,535	181	2,967	62	1,886
PAKISTAN	0	0	223	3,008	475	8,730	61	2,195
TURKEY	4	156	20	778	26	956	43	1,477
CANADA	20	291	85	1,339	8	303	40	1,141
NEPAL	28	1,059	19	950	14	696	38	928
VIETNAM	5	252	0	0	9	423	37	1,199
ISREAL	59	1,118	55	1,058	98	2,746	14	703
BELGIUM	0	0	0	0	31	285	12	615
CHINA	0	0	22	726	30	907	9	273
NEWZEALAND	8	167	21	232	26	270	7	238
SOUTH AFRICA	105	2,373	26	484	51	1,103	5	137
IRAQ	0	0	0	0	0	0	5	64
THAILAND	0	0	0	0	0	0	4	141
BRUNEI	10	25	0	0	0	0	4	98
FRANCE	0	78	10	317	6	254	4	60
MALDIVES	44	318	9	201	29	182	3	104
KENYA	0	8	36	438	1	29	3	92
HONG KONG	0	4	4	76	2	49	2	110
GERMANY	11	571	27	731	2	557	2	181
PORTUGAL	0	0	0	0	1	23	2	19
TANZANIA	3	47	1	17	4	74	1	41
RUSSIA	0	0	18	455	17	612	1	20

(Table 7.3 continued on next page)

Table 7.3 – Export of dried tamarind HS Code 08134010 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
PHILIPPINES	0	0	6	242	0	4	1	10
SEYCHELLES	1	24	0	0	1	20	1	20
BOTSWANA	0	0	4	56	18	382	1	18
IRELAND	0	0	0	0	0	5	1	20
JAPAN	89	1,708	106	2,846	1	14	0	7
GHANA	0	0	0	0	0	4	0	6
MALAYSIA	14	1,033	28	1,387	337	5,790	0	3
GAMBIA	0	0	0	0	0	1	0	2
NIGERIA	0	0	19	122	0	0	0	4
CAMAROON	0	0	0	0	0	0	0	2
COTE D' IVOIRE	0	0	0	0	0	0	0	4
BENIN	14	131	0	0	1	21	0	2
ESTONIA	0	0	0	0	0	0	0	5
NETHERLAND DAN	0	0	0	0	0	0	0	2
MALAWI	0	0	0	0	0	0	0	1
SPAIN	0	0	1	14	11	103	0	0
SWITZERLAND	2	43	48	696	3	10	0	0
UZBEKISTAN	0	0	0	0	1	16	0	0
SWEDEN	0	0	0	0	0	9	0	0
ZAMBIA	0	0	1	19	0	9	0	0
LIBERIA	0	0	0	0	0	1	0	0
TRINIDAD & TO	0	0	0	0	0	1	0	0
IRAN	0	0	3	110	0	0	0	0
MACAO	2	57	3	88	0	0	0	0
TOGO	0	0	1	8	0	0	0	0
AUSTRIA	0	0	0	5	0	0	0	0
CONGO	0	0	0	3	0	0	0	0
ALGERIA	0	1	0	0	0	0	0	0
ETHIOPIA	37	1,259	0	0	0	0	0	0
FINLAND	1	22	0	0	0	0	0	0
MAURITIUS	1	15	0	0	0	0	0	0
MOROCCO	1	22	0	0	0	0	0	0
OTHER COUNTRY	0	2	0	0	0	0	0	0
REUNION	0	8	0	0	0	0	0	0
Total	5,532	120,884	9,619	228,507	12,853	304,905	9,959	241,487

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from exports were Rs. 24.25 / kg for Apr-Dec 2007, Rs. 23.72 / kg for 2006-07. Rs. 23.76 / kg for 2005-06 and Rs. 21.85 / kg for 2004-05.

Tamarind, which comes under the fruit category in the US but under spices in India, is largely cultivated in Karnataka, Tamil Nadu and Kerala.

Exports of tamarind are in the form of tamarind fresh, tamarind dried and tamarind concentrate. Dried tamarind exports are more than of any other form.

8. Export of fresh / chilled fruits

8.1 Bananas



Table 8.1 – Export of bananas including plantains fresh or dried HS Code 08030000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
NEPAL	6,632	20,456	5,443	17,737	5,495	14,406	3,963	13,732
U.A.E.	2,459	53,228	3,477	89,391	2,288	62,413	3,699	85,942
SAUDI ARABIA	830	15,486	1,060	26,296	671	17,816	1,314	27,970
BAHRAIN	456	8,558	747	17,813	496	12,088	757	16,475
KUWAIT	428	8,670	729	19,910	611	14,515	600	12,386
QATAR	442	9,730	552	14,347	330	8,727	558	12,534
OMAN	381	5,178	583	14,411	381	9,499	492	10,721
MALDIVES	189	2,430	287	3,889	349	4,239	435	5,228
BANGLADESH	100	459	152	1,289	25	223	112	774
U.K.	20	562	47	1,480	21	532	104	1,816
IRAN	0	0	566	13,656	282	5,328	22	344
ETHIOPIA	0	0	0	0	0	0	17	842
BELGIUM	0	0	0	0	0	0	15	236
SUDAN	16	431	21	572	0	0	8	247
MALAYSIA	8	72	2	39	6	105	5	41
U.S.A.	598	7,189	436	10,084	151	4,031	5	125
KIRIBATI	0	0	2	47	100	1,962	3	48
SRI LANKA	0	0	0	0	0	0	2	28
CANADA	0	6	15	446	2	177	1	16
BOSNIA-HRZGOVI	0	0	0	0	0	0	1	13
ARUBA	0	9	0	0	0	0	1	21
MACAO	0	0	0	0	0	0	1	20
GERMANY	230	1,083	238	1,395	24	668	1	6
ARGENTINA	0	0	2	55	0	0	0	13
IRELAND	0	0	0	0	0	0	0	3
ST PIERRE	0	0	0	0	0	0	0	7
BARBADOS	0	0	0	0	0	0	0	6
MAURITIUS	0	0	0	0	0	0	0	5
AUSTRIA	1	26	0	0	0	0	0	5
AUSTRALIA	0	0	0	0	0	0	0	2
SWITZERLAND	0	1	1	26	2	38	0	1
UKRAINE	10	413	1	28	83	1,821	0	0
OTHER COUNTRY	1	4	30	246	80	397	0	0
RUSSIA	0	0	0	0	53	1,369	0	0
FRANCE	0	2	2	41	17	169	0	0
KIRGHIZIA	0	0	0	0	3	26	0	0

(Table 8.1 continued on next page)

Table 8.1 – Export of bananas including plantains fresh or dried HS Code 08030000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
PAKISTAN	0	0	12	237	2	40	0	0
AFGHANISTAN	0	0	1	26	1	48	0	0
YAMEN ARAB REPU	0	0	0	1	1	3	0	0
ANDORRA	1	10	0	0	1	14	0	0
BULGARIA	0	0	0	0	0	10	0	0
NETHERLANDS	0	0	0	0	0	2	0	0
TURKEY	0	0	1	35	0	1	0	0
HONG KONG	0	0	0	0	0	12	0	0
MALI	0	0	0	0	0	0	0	0
NAMIBIA	0	0	2	57	0	0	0	0
JAPAN	0	0	1	16	0	0	0	0
GUINEA	0	0	0	16	0	0	0	0
SINGAPORE	4	159	0	18	0	0	0	0
AZER-BAIJAN	0	0	0	11	0	0	0	0
KENYA	0	0	0	3	0	0	0	0
DOMINICAN REP	2	31	0	0	0	0	0	0
NIGERIA	10	69	0	0	0	0	0	0
NORWAY	1	13	0	0	0	0	0	0
Total	12,818	134,276	14,411	233,619	11,476	160,677	12,118	189,608

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from exports were Rs. 15.65 / kg for Apr-Dec 2007, Rs. 14.00 / kg for 2006-07. Rs. 16.21 / kg for 2005-06 and Rs. 10.48 / kg for 2004-05.

Exports constitute less than 0.1 per cent of banana production of the country. This is in spite of the fact that India is the largest banana producer in the world.

Bananas are exported primarily to neighbouring countries and to West Asia. Market is stable and no major upheavals are expected.

In addition to exports to neighbouring countries, a small quantity of plantains (Nendran type) is exported to Gulf countries mainly from Kerala and southern Tamil Nadu. Recently, attempts have been made by Maharashtra and Tamil Nadu farmers for export of Robusta banana to Gulf countries.

There exists an opportunity for export of traditional bananas like Rasthali, Ney Poovan, Red banana, Nendran, Virubakshi etc due to ethnic Indian population in many countries. The demand for traditional varieties (other than Cavendish bananas) is building up.

With opening up of international trade, market is wide open for India. Growing demand for organic bananas and for traditional varieties has opened up new avenues for export of Indian bananas. Initial impetus for India's export drive is coming from ethnic Indian populations in the Gulf and European Union.

There is widespread awareness of the potential to increase exports of bananas from India. Government, as well as industry and logistics operators like container companies are actively focusing on this segment.

8.2 Mangoes



Table 8.2 – Export of mangoes fresh HS Code 08045020

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.A.E.	10,339	290,354	26,534	730,440	22,046	658,102	20,037	545,741
BANGLADESH	32,503	297,166	32,771	276,636	42,888	399,483	16,666	154,943
NEPAL	3,401	26,964	4,116	32,298	8,056	70,726	7,471	62,522
U.K.	1,309	74,577	840	53,793	1,883	114,128	2,539	196,446
SAUDI ARABIA	2,301	74,778	1,564	44,220	1,324	42,232	1,478	45,683
KUWAIT	268	15,045	105	10,732	428	24,489	433	28,935
BAHRAIN	849	21,406	621	24,356	489	17,176	426	15,531
MALAYSIA	185	4,980	244	6,021	332	8,672	412	12,944
SINGAPORE	160	8,446	242	9,183	231	13,180	340	16,857
GERMANY	83	4,333	4	366	59	4,030	336	14,145
SWITZERLAND	40	2,372	9	1,472	168	10,541	157	10,618
U.S.A.	35	1,824	83	4,229	0	2	142	19,572
JAPAN	237	12,336	70	4,730	75	5,405	123	11,222
NETHERLANDS	532	21,268	261	13,152	243	8,487	89	3,716
CANADA	28	1,369	324	13,649	75	4,484	86	4,805
FRANCE	42	1,338	159	7,401	63	2,899	56	3,339
BELGIUM	31	3,279	20	853	57	2,953	55	3,501
QATAR	160	4,849	40	2,180	91	4,588	41	1,900
HONG KONG	38	2,378	30	1,783	50	3,347	40	3,192
OMAN	143	4,274	227	7,579	170	11,865	33	1,342
ITALY	1	97	2	29	4	318	31	1,270
INDONESIA	0	0	0	0	0	0	29	1,443
IRAN	17	492	242	10,776	0	0	26	1,001
BRUNEI	10	409	6	189	15	933	19	808
NEWZEALAND	5	185	19	597	3	74	14	603
BENIN	0	0	0	0	0	0	12	98
NORWAY	118	2,831	1	26	11	488	8	959
PARAGUAY	0	0	0	0	0	0	8	451
MALDIVES	4	120	21	514	7	168	7	235
RUSSIA	68	2,034	0	0	5	812	6	400
SPAIN	1	27	0	0	1	195	4	158
AUSTRALIA	1	64	6	131	4	966	4	206
DENMARK	0	2	0	0	0	2	4	208
GREECE	2	251	2	76	0	0	4	107
GEORGIA	0	0	0	0	0	0	4	90
POLAND	0	0	0	0	0	46	3	158
SWEDEN	0	14	1	9	0	14	2	154
BAHAMAS	0	0	0	0	1	30	2	185

(Table 8.2 continued on next page)

Table 8.2 – Export of mangoes fresh HS Code 08045020 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
CHILE	0	0	0	0	0	0	2	205
JORDAN	88	2,711	0	0	0	0	1	51
AUSTRIA	0	5	0	0	1	83	1	44
THAILAND	5	758	0	0	1	62	1	42
PORTUGAL	41	2,260	0	0	0	1	0	43
TURKEY	23	1,303	0	0	0	2	0	6
TUNISIA	0	0	0	0	0	0	0	4
SRI LANKA	10	129	0	0	0	1	0	2
MALI	0	0	0	0	0	0	0	1
ROMANIA	0	0	0	0	0	0	0	7
PAKISTAN	0	0	34	632	3	157	0	1
HUNGARY	0	1	0	0	0	0	0	1
KOREA REPUBLIC	0	42	27	1,172	22	919	0	0
YAMEN ARAB REPUBLIC	229	4,449	680	11,649	64	2,139	0	0
CONGO	1	15	0	0	59	683	0	0
BHUTAN	0	0	0	0	40	320	0	0
UKRAINE	19	868	0	0	26	1,415	0	0
VIETNAM	0	0	61	1,765	21	374	0	0
BARBODOS	0	0	0	0	19	908	0	0
MALTA	0	0	54	2,331	18	783	0	0
OTHER COUNTRY	0	0	0	0	6	479	0	0
BOSNIA-HERZGOVINA	1	17	1	68	3	27	0	0
CAYMAN ISLANDS	0	0	0	0	2	85	0	0
SWAZILAND	2	225	0	27	1	117	0	0
CHINA	1	50	1	18	0	6	0	0
EGYPT	0	0	0	0	0	2	0	0
SOMALIA	0	0	0	0	0	0	0	0
SOUTH AFRICA	0	36	21	247	0	1	0	0
CANARY ISLAND	0	0	53	487	0	0	0	0
ALGERIA	0	0	34	1,925	0	0	0	0
CHINESE TAIPEI	0	0	23	984	0	0	0	0
FINLAND	0	2	20	947	0	0	0	0
FRENCH POLYNESIA	0	0	17	887	0	0	0	0
ISRAEL	0	0	13	401	0	0	0	0
SLOVAK REP.	0	0	4	45	0	0	0	0
BRAZIL	0	0	2	111	0	0	0	0
ERITREA	40	838	0	0	0	0	0	0
ETHIOPIA	0	1	0	0	0	0	0	0
GUINEA	0	44	0	0	0	0	0	0
KENYA	2	35	0	0	0	0	0	0
MAURITIUS	0	51	0	0	0	0	0	0
SAO TOME & PRINCE	0	2	0	0	0	0	0	0
SUDAN	105	2,407	0	0	0	0	0	0
UNSPECIFIED	0	0	0	0	0	0	79	7,433
Total	53,480	896,106	69,607	1,281,112	79,061	1,419,395	51,233	1,173,329

Source: APEDA / DGCIIS / Department of Commerce, Government of India

Average realization from exports was Rs. 22.90 / kg for Apr-Dec 2007, Rs. 17.95 / kg for 2006-07. Rs. 18.41 / kg for 2005-06 and Rs. 16.76 / kg for 2004-05. Export realizations for fresh mangoes vary greatly from country to country. Nepal and Bangladesh pay around Rs. 9 per kg, while U.S.A. pays as high as Rs. 137 per kg.

Table 8.3 – Export realizations country-wise for mangoes fresh HS Code 08045020

Country	Export Realization	
	2006-07	Apr-Dec07
	Rs. / kg	
U.A.E.	29.85	27.24
BANGLADESH	9.31	9.30
NEPAL	8.78	8.37
U.K.	60.60	77.38
SAUDI ARABIA	31.91	30.92
KUWAIT	57.21	66.80
BAHRAIN	35.10	36.45
MALAYSIA	26.10	31.44
SINGAPORE	57.09	49.53
GERMANY	68.50	42.07
SWITZERLAND	62.85	67.47
U.S.A.	37.69	137.46
JAPAN	72.51	91.38
Average for all countries	17.95	22.90

In addition to freight differences, the difference in prices is due to variations in standards of packing and phyto-sanitary measures. Mangoes go to Nepal and Bangladesh either loose or in cheap boxes, while for U.S.A. expensive radiation treatment and inspections have to be carried out.

India occupies only third position in total mango exports. Exports from India accounts for 0.11 per cent of the total domestic production as against about 4 per cent in case of other exporting countries like Mexico, Philippines and Venezuela.

Though there is a vast potential for export to western countries, constraints like suitability of a few varieties for exports, pests and disease problems, high freight charges, limited cargo space and high packing cost have restricted the expansion of the exports from India.

India started exporting mangoes to USA in April 2007. Export of mangoes to USA is subject to strict regulations. The following extract from “Guidelines for Export of Indian Mangoes to USA” gives an indication of the requirements that exporters have to comply with.

The importation of mangoes from India is regulated under the ‘Fruits and Vegetables Quarantine, 7 CFR 305 and 319 [Docket No.APHIS-2006-0121] RIN 0579-AC19, USDA-APHIS.

As a condition of entry into USA, the mangoes must be treated in India with irradiation by receiving a minimum absorbed dosage of 400 Grays.

Importers must secure the USDA-Import Permit at least 30 days in advance of arrival of irradiated commodities at the scheduled port of entry to facilitate transmission of the permits to the inspector at the U.S. Port of entry in advance of arrival of shipments.

The mangoes must be given post-harvest hot water fungicidal dipping (Prochloraz at 500 ppm) at 52 C for 3-4 minutes.

Each consignment of mangoes must be inspected jointly by USDA-APHIS and NPPO of

India (Dte of PPQS of MOA), as part of the required pre-clearance inspection activities as determined by mutual agreement between USDA-APHIS and NPPO of India.

Each consignment of mangoes must be accompanied by a phytosanitary certificate issued by NPPO of India (Dte of PPQS of MOA) certifying that the fruits received required irradiation treatment. The phytosanitary certificate must also bear the following two additional declarations confirming that:

(1) the mangoes were subjected to post-harvest mitigation options described as above and

(2) the mangoes were inspected during pre-clearance activities and found free of *Cytosphaera mangiferae*, *Macrophoma mangiferae*, and *Xanthomonas campestris* pv. *Mangiferaeindicae*

The mangoes will be permitted import in commercial consignments only.

(Source: APEDA)

Exporters exporting to Japan have it relatively easy. The following extract from “Guidelines for Export of Mangoes to Japan” gives the requirements for exporting to Japan.

(1) The fresh fruit shall be inspected by the Indian Plant Quarantine Authority and shall also be accompanied by a phytosanitary certificate issued to the effect that, as a result of inspection, it is recognized or believed that they are not infested with any pests or diseases.

(2) Phytosanitary certificate shall bear the additional remarks:

(A) That the subject fruit is not infested with *Bactrocera dorsalis* species complex and Melon fly (hereinafter referred to as “fruit Flies”).

(B) That the fruits have been disinfested.

IV. Disinfestation in India: The fresh fruit of Mango shall be disinfested with saturated vapor in the vapor heat treatment facilities. The temperature of the treatment chamber shall be raised step by step to 50 degrees centigrade so that the temperature of the innermost fruit pulp reaches 47.5 degrees centigrade and is kept at 47.5 degrees centigrade or higher for 20 minutes.

For exports to Japan, mangoes should be from one of the following states – Andhra Pradesh, West Bengal, Uttar Pradesh, Gujarat and Maharashtra. The varieties approved for exports to Japan are Alphonso, Kesar, Chausa, Banganpalli, Mallika and Langra.

The strategies for boosting up of mango export suggested by the Expert Group of the Planning Commission and APEDA are as under :-

- i. Transshipment of mangoes by sea so as to make them competitive in price sensitive markets of Europe and Middle East.
- ii. Promotion of non-traditional varieties like Chausa, Safeda and Badami.
- iii. Augmentation of supply during seasonal gaps. (February/March in Middle East and March/April and July/August in Europe).
- iv. Development of post-harvest management facilities/ practices.

(Source: MOFPI)

8.3 Oranges

Table 8.4 – Export of oranges HS Code 08051000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
BANGLADESH	30,825	325,130	34,955	335,139	27,959	272,177	15,520	145,187
NEPAL	655	3,966	1,319	10,436	1,492	9,034	982	5,923
U.S.A.	0	0	1	20	0	0	348	5,033
CANADA	0	0	0	0	0	0	113	2,722
CHINA	0	0	0	0	0	0	31	335
NETHERLANDS	13	403	0	0	0	0	26	288
SPAIN	0	0	0	0	0	0	24	345
OMAN	20	327	14	753	4	117	21	277
U.A.E.	2	62	36	621	144	2,068	14	149
MALAYSIA	0	0	0	0	0	0	4	166
SINGAPORE	1	28	0	8	0	0	1	6
KUWAIT	0	0	0	0	0	1	0	12
FRANCE	0	0	0	0	0	0	0	1
ITALY	0	0	0	0	0	0	0	0
THAILAND	0	0	0	0	266	5,559	0	0
OTHER COUNTRY	0	0	0	0	185	1,860	0	0
GERMANY	0	0	0	0	26	241	0	0
SWITZERLAND	0	0	0	0	15	23	0	0
AUSTRIA	0	0	0	0	14	129	0	0
MALDIVES	0	0	1	10	3	56	0	0
AFGHANISTAN	0	0	0	0	1	94	0	0
SAUDI ARABIA	0	0	0	0	1	10	0	0
CONGO	0	0	0	0	1	11	0	0
BULGARIA	0	0	0	0	0	6	0	0
SOUTH AFRICA	0	0	80	811	0	0	0	0
SRI LANKA	0	0	34	524	0	0	0	0
CANARY ISLAND	0	0	22	184	0	0	0	0
JORDAN	0	0	14	131	0	0	0	0
PAKISTAN	0	0	10	83	0	0	0	0
QATAR	0	8	0	5	0	0	0	0
BAHRAIN	1	23	0	0	0	0	0	0
PERU	8	66	0	0	0	0	0	0
TANZANIA	3	53	0	0	0	0	0	0
UNSPECIFIED	0	0	0	0	0	0	20	143
Total	31,528	330,066	36,488	348,725	30,110	291,386	17,105	160,588

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from exports were Rs. 9.39 / kg for Apr-Dec 2007, Rs. 9.68 / kg for 2006-07. Rs. 9.56 / kg for 2005-06 and Rs. 10.47 / kg for 2004-05.

India exports about 1 to 2 per cent of national production of oranges. India's production of oranges in 2005-06 was 1.313 mio tons (Source: Indian Horticulture Database 2006). Maharashtra and Madhya Pradesh are the leading producers of oranges.

8.4 Lemons & Limes

**Table 8.5 – Export of lemons (Citrus limon, Citrus limonum) & limes (Citrus aurantifolia)
HS Code 08055000**

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.A.E.	8,042	64,728	8,865	94,945	10,300	117,597	8,610	88,739
NEPAL	1,298	5,940	1,547	7,680	2,114	11,401	1,101	6,704
SAUDI ARABIA	264	3,198	260	5,909	285	5,259	918	18,225
MALDIVES	82	543	25	405	117	1,778	208	1,770
BAHRAIN	222	2,534	136	1,638	73	456	109	680
BANGLADESH	93	344	19	126	4	12	67	559
KUWAIT	0	0	5	136	2	29	52	480
PAKISTAN	0	0	0	0	0	0	30	596
NETHERLANDS	0	0	100	868	0	0	7	44
GERMANY	0	0	1	19	32	1,135	5	111
JAPAN	0	0	0	0	0	0	5	95
CANADA	2	47	25	420	0	0	4	69
U.K.	21	252	16	25	4	143	2	28
HONKONG	0	0	0	0	0	0	2	21
NEW ZEALAND	0	0	0	0	0	0	1	12
QATAR	0	0	2	49	4	320	0	3
SPAIN	0	0	0	0	0	0	0	2
SINGAPORE	1	8	0	0	1	30	0	0
OMAN	465	5,463	20	227	56	1,219	0	0
THAILAND	0	0	0	0	14	637	0	0
NIGERIA	3	39	0	0	10	1	0	0
OTHER COUNTRY	16	60	45	198	8	166	0	0
SUDAN	0	0	0	0	5	59	0	0
U.S.A.	0	42	0	1	5	110	0	0
EGYPT	0	0	0	0	1	12	0	0
SWITZERLAND	0	0	0	0	0	18	0	0
MALAWI	0	0	0	0	0	7	0	0
SRI LANKA	0	0	26	55	0	0	0	0
MALAYSIA	0	0	5	54	0	0	0	0
LEBANON	0	0	2	43	0	0	0	0
AUSTRALIA	0	0	0	19	0	0	0	0
MALI	0	0	0	6	0	0	0	0
ST. KITTS NEVIS	1	23	0	2	0	0	0	0
CZECH REP.	1	27	0	0	0	0	0	0
ISREAL	5	308	0	0	0	0	0	0
KOREA DEM. REP.	8	24	0	0	0	0	0	0
UNSPECIFIED	0	0	0	0	0	0	0	3
Total	10,523	83,579	11,099	112,825	13,033	140,390	11,124	118,142

Source: APEDA / DGCIIS / Department of Commerce, Government of India

Average realizations from exports were Rs. 10.62 / kg for Apr-Dec 2007, Rs. 10.77 / kg for 2006-07. Rs. 10.17 / kg for 2005-06 and Rs. 7.94 / kg for 2004-05.

Exports of lemons & lime are less than 1 per cent of national production. In 2005-06 India produced 1.786 mio tons of lime / lemon. Top producing states were Andhra Pradesh (0.751 mio tons), Gujarat (0.303 mio tons), Maharashtra (0.136 mio tons), Karnataka (0.199 mio tons),

Uttaranchal (0.123 mio tons) and Bihar (0.112 mio tons). (Source: Indian Horticulture Database 2006)

8.5 Other citrus fruits

Other citrus fruits includes *Mosambi* (*Citrus Sinensis*), which is also called sweet lime or sweet orange. India produced 2.122 mio tons of *mosambi* in 2005-06. Major states producing mosambi are Andhra Pradesh (1.478 mio tons) and Maharashtra (0.612 mio tons). (Source: Indian Horticulture Database 2006)

Table 8.6 – Export of other citrus fruits HS Code 08059000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
BANGLADESH	1,051	10,336	2,037	17,858	7,440	69,023	3,054	26,052
U.A.E.	549	6,469	1,250	17,470	1,500	24,942	1,531	24,896
SAUDI ARABIA	733	10,407	677	10,480	1,449	32,543	817	16,598
NEPAL	8,391	108,426	88	330	58	342	103	721
U.S.A.	3	33	6	104	5	122	27	403
SOUTH AFRICA	2	28	0	0	25	230	20	181
QATAR	0	5	0	0	0	0	15	111
ISREAL	0	0	0	0	2	24	8	34
KUWAIT	0	0	0	0	11	35	7	101
BAHRAIN	0	0	0	0	2	21	6	33
NETHERLANDS	16	677	0	0	0	0	3	6
TANZANIA	0	0	0	0	5	74	2	85
OMAN	622	7,910	661	10,739	2	20	1	17
YEMEN REP	0	0	0	0	0	0	0	79
SINGAPORE	1	14	0	0	0	0	0	15
U.K.	0	0	0	0	0	0	0	8
UGANDA	0	0	0	0	0	0	0	2
MALDIVES	0	0	0	8	18	157	0	0
SPAIN	0	0	0	0	4	216	0	0
PHILIPPINES	0	0	0	0	1	6	0	0
NEWZEALAND	0	0	0	0	0	3	0	0
SRI LANKA	1	64	14	160	0	0	0	0
AUSTRIA	0	0	10	200	0	0	0	0
CONGO	1	5	0	0	0	0	0	0
GHANA	8	50	0	0	0	0	0	0
PORTUGAL	0	2	0	0	0	0	0	0
Total	11,379	144,426	4,743	57,349	10,522	127,759	5,594	69,340

Source: APEDA / DGCIS / Department of Commerce, Government of India



Average realizations from exports were Rs. 12.40 / kg for Apr-Dec 2007, Rs. 12.14 / kg for 2006-07. Rs. 12.09 / kg for 2005-06 and Rs. 12.69 / kg for 2004-05.

8.6 Grapes

Table 8.7 – Export of grapes HS Code 08061000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
BANGLADESH	14,724	83,041	13,933	195,919	25,749	310,518	9,109	109,475
U.K.	5,818	325,489	11,286	589,197	13,579	762,757	4,252	226,423
NETHERLANDS	7,492	402,982	12,133	629,532	19,021	1,001,322	3,524	200,037
U.A.E.	5,238	267,700	6,994	338,836	8,140	366,791	1,602	62,341
GERMANY	1,151	46,207	2,992	111,013	6,127	143,295	1,080	37,653
NEPAL	1,440	11,501	1,422	11,643	2,610	23,098	1,020	8,095
RUSSIA	411	22,074	901	42,856	1,202	45,620	612	17,945
BELGIUM	443	23,762	1,754	119,193	4,523	155,266	304	22,532
SRI LANKA	938	21,169	943	25,592	890	22,878	258	5,721
SAUDI ARABIA	150	8,129	345	18,991	1,115	56,359	139	4,743
ITALY	0	0	0	0	0	1	74	347
NORWAY	0	0	62	3,315	571	40,775	69	4,919
OMAN	102	6,866	190	10,241	314	16,491	57	1,969
IRELAND	15	751	48	3,483	234	11,771	43	1,670
CHINA	0	0	0	0	1	35	32	419
SPAIN	0	0	10	134	17	685	21	108
KUWAIT	0	14	21	756	64	2,038	19	632
LITHUANIA	0	0	0	0	143	3,281	15	491
MALAYSIA	150	6,005	171	7,042	197	9,208	14	964
DENMARK	0	0	0	0	120	3,796	13	760
SINGAPORE	61	2,308	30	1,469	93	4,508	11	502
BAHRAIN	87	4,546	153	6,285	27	833	9	466
BENIN	0	0	0	0	0	0	7	39
PHILIPPINES	63	2,880	16	650	0	0	0	0
OTHER COUNTRY	0	0	0	0	315	3,881	0	0
HONG KONG	212	10,077	278	13,004	157	6,812	0	0
CHINESE TAIPEI	325	15,716	95	4,344	113	4,342	0	0
THAILAND	0	0	0	0	78	3,953	0	0
KENYA	0	0	0	0	47	996	0	0
INDONESIA	0	0	0	0	35	1,593	0	0
MAURITIUS	19	686	0	0	30	1,060	0	0
MALDIVES	15	362	23	513	21	536	0	0
QATAR	0	43	36	1,849	16	768	0	0
VIETNAM	0	0	0	0	13	485	0	0
U.S.A.	0	0	17	556	1	99	0	0
CANARY ISLAND	0	0	31	858	0	0	0	0
IRAN	0	0	16	888	0	0	0	0
NORFOLK IS	0	0	10	126	0	0	0	0
SOUTH AFRICA	0	0	0	1	0	0	0	0
IVORY COAST	15	600	0	0	0	0	0	0
LATVIA	15	875	0	0	0	0	0	0
NETHERLAND ANTI	13	595	0	0	0	0	0	0
Total	38,898	1,264,380	53,908	2,138,286	85,563	3,005,849	22,283	708,251

Source: APEDA / DGCIIS / Department of Commerce, Government of India

Low figure for April-December 2007 is due to the seasonal nature of grape exports. Majority of

exports take place during January to March.

India's share in global grape exports is less than 2 per cent. In addition to fresh grapes, India also exports a small quantity of raisins (about 400 tons every year).

Average realizations from exports were Rs. 31.78 / kg for Apr-Dec 2007, Rs. 35.13 / kg for 2006-07. Rs. 39.67 / kg for 2005-06 and Rs. 32.50 / kg for 2004-05.

Maharashtra is the main centre of grape exports from India. Within Maharashtra, Nashik district has emerged as the grape capital of the country. Nashik district accounts for about 55 per cent of India's grape exports.

Popular Thomson Seedless grapes accounted for more than 80 per cent of the exports, followed by other varieties like Sharad Seedless and the Australian 'Flame Seedless'.

In the past, Indian grapes exported to European Union had met with quality complaints from importers. In 2003, the European Commission had issued 17 rapid alert notifications on the ground of detection of high levels of pesticide residues in Indian grapes. APEDA realized the problem and introduced traceability from farm to grape carton / container. Traceability helped 40,000 grape farmers to come together and apply uniform farming practices.

The success achieved in implementing the residue monitoring system and IT based traceability procedure has enabled all stakeholders in India and importers & supermarkets in the EU to develop considerable confidence in Indian grapes with a result that export of table grapes from India has doubled during the last three years.



Thomson seedless grapes

SWOT Analysis of India's grape scenario as prepared by National Research Centre for Grapes is as follows (Source: Vision 2025, NRCG Perspective Plan) :

Strengths

- Approximately 90 per cent of the area under grapes is in sub-tropical to tropical regions of the country, where vines are pruned twice. Fruit pruning can be adjusted to harvest the crop practically throughout the year. The time of harvesting can be thus adjusted to catch the changing period of demand during Ramzan in the Middle East and seasonal demand in European countries.
- Technology for the production of EEC Class-I table grapes is available in India. Grapes complying the quality standards of the EEC Class-I grapes are presently harvested in the vineyards of peninsular India in varying quantities ranging from 4 to 15 tons per hectare.

- Required manpower and the skill know-how for various operations involved in the production, harvest, and packing of grapes for export is available in the country.
- There is no recurring occurrence of *Botrytis cinerea*, which is world's number one pathogen in cold stored grapes, and also the *Phylloxera* root fungus.
- The grape growers in India are highly innovative and receptive to new technologies thereby the adoption rate of new technology for production of quality grapes is high.
- Indian raisins comply with most of the parameters specified under the Codex standard.
- Favorable Govt. policies on wine industry in some states, particularly in Maharashtra, have encouraged grape growers to take up cultivation of wine grapes on large scale.
- The transfer of technology system is also easy and convenient as grape growers of different regions have organized themselves by forming associations / co-operatives and also have close interactions with the scientists to discuss their problems and related issues to solve them.
- Excellent research infrastructure has been developed during last few years thus the Centre is prepared to take up advanced research to tackle arising problems.

Weaknesses

- ✚ Some wild cultivars hold promise for use as donor parents in resistance breeding programmes, but cannot be grown out of their native habitat, hence, warrant *in situ* conservation.
- ✚ High degree of apical dominance requires very expensive gable roof and bower system of training leading to high initial cost of establishment.
- ✚ Most preferred variety in India viz. Thompson Seedless has problem of cracking and rotting in the event of rains during ripening and short period available for ripening in the subtropical plains of north India.
- ✚ Narrow genetic base of cultivars is the most salient weakness hampering the exports of grapes from India. Among the green seedless grape varieties grown in India only Thompson Seedless and its clones are popular in European markets.
- ✚ In absence of certified nurseries and mother blocks, the propagation is through material sourced from commercial vineyards, which has lead to degeneration of genetic material of the commercial varieties.
- ✚ Good nursery practices are lacking for producing disease free and true to type planting materials.
- ✚ Less availability of skilled laborers during crucial growth stages like pruning, thinning, harvesting etc.
- ✚ Increased cost of production due to small land holding for want of mechanical pruning and harvesting devices.

- ✦ Agrotechniques for other commercial varieties have not been standardized. Same management as Thompson seedless is causing problems related to nutrition, diseases, canopy etc.
- ✦ Major chunk of the production is utilized for table purpose and is harvested during February-April and therefore, glut during this period while, the proportion of produce suitable for export in fresh form is as low as 1.5 - 2.0 per cent.
- ✦ Although Indian raisins comply with most of the quality parameters specified by Codex, yet some important physical and organoleptic parameters need to be improved to make Indian raisins internationally acceptable.

Opportunities

- Introduction of world's ruling varieties like Red Globe, Crimson Seedless, Italia and 2A clone of Thompson Seedless, H-5, and Superior Seedless etc. has now increased the varietal base. On going evaluation has identified new clones and several hybrids are also in the pipeline.
- Introduction of wine varieties for wine making is yet to be exploited.
- Fast growing wine sector has to be exploited. There is scope for expansion of area and production for domestic as well as export market.
- Opportunities also exist to increase the export of Indian table grapes to the south and southeast Asian countries viz. China, Sri Lanka, Singapore, Philippines, Mauritius, Hong Kong, Malaysia, South Korea, Indonesia, Thailand, etc.
- Scope for organic / biodynamic grape cultivation is yet to be explored and exploited.
- Introduction of biological control and environment friendly methods in integrated management of diseases and insect pests to reduce residues of pesticides as well as cost of cultivation.
- Export demand for raisins in international market can be captured by India by improvements in quality of produce.
- Evolving self thinning varieties to reduce cost of thinning, and excess use of growth regulator.
- Use of advanced grafting techniques like budding and bench grafting machines to reduce cost and failure of propagation manually.



Perlette

Threats

- In major grape growing regions of Maharashtra, Karnataka, Andhra Pradesh, incidence of diseases like mildew and anthracnose and insects like mealy bug and thrips are severe, especially under wet and cloudy conditions, which affect the yield and quality of the fruits, and increase cost of production.
- The increasing soil salinity and water shortage adversely affect the shoot vigour and vine canopy thereby are a threat to the production of quality grapes.
- Heavy yields result in poor quality of grapes and short life of the vines. The proportion of export quality grape reduces drastically with increase in yield over 20 t/ha. Many growers do not regulate crop load, which is essential for the production of quality grapes and life of the vine.
- Grapes in India being grown under tropical climate, incidence of insect pests and diseases is high and produce is also of poor quality.
- More use of systemic pesticides has increased the chances of development of resistance in the pests.
- Development of physiological disorders due to climatic changes e.g. pink berry in Thompson seedless is also one of the potential threats to fresh grape exports from India.
- Over dependence on single rootstock and selected commercial variety is posing problem in reducing yield, quality and increasing disease and pest incidence.
- Introduction of planting material without proper certification may lead to new disease and pest incidence with reduced yield.
- Unpredicted weather during berry development stage may reduce yield and quality due to increased pest and disease incidence.
- Competition from Chile, South Africa and Brazil and new emerging countries is the most potential threat to grape exports from India during March / April due to poorer quality of Indian grapes.



8.7 Papayas

Table 8.8 – Export of papaws (papayas) HS Code 08072000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.A.E.	2,564	35,378	3,791	36,102	6,012	49,708	3,658	34,654
SAUDI ARABIA	174	2,309	204	2,634	1,348	22,903	1,135	21,393
NEPAL	336	1,748	477	2,245	1,190	6,316	610	4,015
BAHRAIN	73	847	55	574	249	4,679	541	4,967
QATAR	92	2,543	100	1,531	329	4,992	452	5,558
KUWAIT	46	826	212	2,604	351	4,203	338	3,134
BAHAMAS	0	0	0	0	83	1,174	122	2,289
FRANCE	10	115	1	13	35	1,170	87	2,650
U.K.	9	190	3	75	128	1,391	75	1,091
NETHERLANDS	72	2,912	777	11,140	247	9,341	47	826
MALDIVES	0	0	1	5	0	0	27	261
BELGIUM	10	313	7	223	50	1,519	23	990
POLAND	0	0	230	985	0	0	23	1,021
SWITZERLAND	4	71	2	75	5	83	22	204
MALAYSIA	0	0	7	192	14	418	20	561
GERMANY	86	1,673	62	1,749	29	1,947	18	315
JAPAN	61	1,723	36	1,252	21	771	18	631
CANADA	3	28	4	86	67	1,809	11	125
BANGLADESH	48	198	251	2,033	22	201	6	103
SOUTH AFRICA	21	624	0	0	0	0	2	29
LEBANON	0	0	0	0	16	353	2	21
NORWAY	4	52	0	0	1	17	2	16
OMAN	21	192	12	109	27	443	1	38
SINGAPORE	1	17	20	629	6	92	1	41
HONG KONG	0	0	0	0	1	10	1	38

(Table 8.8 continued on next page)



Table 8.8 – Export of papaws (papayas) HS Code 08072000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.S.A.	18	648	34	894	38	712	1	2
GREECE	0	0	0	0	0	1	0	3
ITALY	0	0	0	0	0	5	0	2
JORDAN	0	0	0	0	0	0	0	2
DENMARK	0	0	0	0	0	0	0	2
SWEDEN	0	0	0	0	0	0	0	1
AUSTRIA	0	0	0	0	0	0	0	1
AUSTRALIA	0	0	0	0	1	0	0	1
GEORGIA	0	0	0	0	0	0	0	1
SPAIN	0	0	100	724	0	1	0	0
OTHER COUNTRY	24	98	13	47	28	506	0	0
FREN. POLYNESIA	0	0	17	399	26	599	0	0
RUSSIA	0	0	0	0	18	613	0	0
DOMINICAN REP	0	0	0	0	1	30	0	0
SURINAM	0	0	0	0	0	5	0	0
SRI LANKA	0	0	10	118	0	0	0	0
SOMALIA	0	0	6	40	0	0	0	0
UKRAINE	0	0	3	36	0	0	0	0
GHANA	0	11	0	0	0	0	0	0
INDONESIA	8	211	0	0	0	0	0	0
IRAN	17	391	0	0	0	0	0	0
UNSPECIFIED	0	0	0	0	0	0	31	586
Total	3,701	53,120	6,434	66,513	10,344	116,011	7,274	85,572

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from exports were Rs. 11.76 / kg for Apr-Dec 2007, Rs. 11.21 / kg for 2006-07. Rs. 10.34 / kg for 2005-06 and Rs. 14.35 / kg for 2004-05.

Exports account for less than 0.5 per cent of India's production of papaya.

U.A.E. and Saudi Arabia are the major destinations for papayas from India. In the last three years, exports have increased to almost three times. Yet, due to low volumes, papaya has not received sufficient attention from Indian export promotion agencies.



8.8 Apples

Table 8.9 – Export of apples HS Code 08081000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
BANGLADESH	20,727	239,939	27,081	342,566	22,768	271,551	24,880	255,589
NEPAL	2,177	17,008	2,460	27,596	3,169	41,835	6,201	61,660
CHINA P RP	0	0	0	0	0	0	38	443
SAUDI ARABIA	6	114	0	0	1	35	1	34
U.S.A.	40	574	11	351	0	0	1	36
GERMANY	0	0	189	7,210	0	0	0	1
U.A.E.	35	1,048	83	1,449	0	0	0	1
CONGO	0	0	0	0	24	260	0	0
SINGAPORE	2	39	23	274	6	64	0	0
MALDIVES	0	0	0	0	3	97	0	0
HONG KONG	0	0	0	0	1	25	0	0
KUWAIT	0	0	1	35	0	0	0	0
OTHER COUNTRY	13	94	113	884	0	0	0	0
PAKISTAN	0	0	48	503	0	0	0	0
SRI LANKA	0	0	14	169	0	0	0	0
FIJI	0	0	12	152	0	0	0	0
U.K.	3	176	6	68	0	0	0	0
AUSTRALIA	0	0	2	15	0	0	0	0
NEWZEALAND	0	0	0	6	0	0	0	0
NORWAY	0	0	0	9	0	0	0	0
BAHRAIN	2	42	0	0	0	0	0	0
BRUNEI	1	40	0	0	0	0	0	0
INDONESIA	131	2,097	0	0	0	0	0	0
KOREA DEM. REP.	1	8	0	0	0	0	0	0
MALAYSIA	21	1,111	0	0	0	0	0	0
VIETNAM	68	1,209	0	0	0	0	0	0
UNSPECIFIED	0	0	0	0	0	0	34	324
Total	23,225	263,498	30,044	381,291	25,971	313,866	31,157	318,088

Source: APEDA / DGCIIS / Department of Commerce, Government of India

Average realizations from exports were Rs. 10.21 / kg for Apr-Dec 2007, Rs. 12.09 / kg for 2006-07. Rs. 12.69 / kg for 2005-06 and Rs. 11.35 / kg for 2004-05.

Bangladesh and Nepal account for almost 99 per cent of India's apple exports. India clearly has no presence in global market for apples.

India exports about 2 per cent of production of apples.

State of Jammu & Kashmir accounts for almost half of apples exported. The rest half come from Himachal Pradesh and Uttranchal.

Apple harvest season is very short in India. August, September and October are the only months when apples are available in plenty. Exports take place only during these months. Hence, April-December 2007 figures given above will be the figures for full financial year of April 2007 – March 2008.

8.9 Pomegranates



Arakta variety

Table 8.10 – Export of pomegranates HS Code 08109010

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.A.E.	6,821	127,652	10,501	233,194	9,234	243,467	6,178	143,467
BANGLADESH	971	9,743	2,007	22,829	1,489	18,250	1,872	21,920
SAUDI ARABIA	357	7,847	870	23,739	1,909	66,326	1,315	24,823
NETHERLANDS	1,864	58,619	1,582	103,317	2,885	160,106	1,299	61,147
NEPAL	656	4,849	981	7,890	745	5,251	883	7,129
U.K.	1,260	50,440	1,434	88,297	1,953	147,326	561	44,864
RUSSIA	18	1,256	114	8,382	661	46,330	555	29,786
CANADA	2	92	2	74	276	10,081	348	5,263
EGYPT	0	0	37	1,874	42	3,123	312	12,124
KUWAIT	3	207	28	560	63	2,649	250	5,364
BAHRAIN	498	6,890	419	6,956	365	8,827	230	3,263
BELGIUM	507	9,388	777	42,394	374	16,441	206	4,543
SINGAPORE	7	275	20	845	90	4,960	196	5,095
SRI LANKA	342	6,187	285	5,564	214	5,302	184	4,257
MALAYSIA	4	144	143	3,910	125	6,145	134	4,333
U.S.A.	60	701	18	436	47	1,989	131	8,833
GERMANY	280	5,784	21	2,575	237	8,898	118	4,291
CHINA	20	452	0	0	36	705	118	1,698
QATAR	14	262	58	957	80	4,032	111	2,761
OMAN	150	3,336	71	3,641	275	6,994	97	2,625
THAILAND	0	0	0	117	37	1,422	66	4,286
SPAIN	0	0	73	4,564	192	14,561	59	1,638
SWITZERLAND	2	101	11	497	21	857	43	1,609
JAPAN	161	3,696	10	107	40	807	40	741
LATVIA	0	0	0	0	0	0	37	4,274
CYPRUS	39	813	38	2,139	139	4,983	30	3,225
BAHAMAS	0	0	0	0	3	220	18	371
GREECE	0	0	0	0	20	733	17	1,541
ISRAEL	0	0	0	0	0	0	13	320
HONG KONG	0	69	3	156	8	573	11	130
PAKISTAN	0	0	0	0	0	0	10	193
ITALY	0	0	0	0	0	0	8	439
FRANCE	1	10	0	0	2	72	3	253
AUSTRALIA	1	28	2	41	1	14	3	157
DENMARK	0	0	0	0	0	1	2	23
SYRIA	0	0	0	0	0	0	1	150

(Table 8.10 continued on next page)

Table 8.10 – Export of pomegranates HS Code 08109010 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
NORWAY	0	0	0	0	1	70	1	19
MALDIVES	0	8	14	245	25	601	0	5
AUSTRIA	0	0	0	0	1	16	0	0
SOUTH AFRICA	0	2	0	0	4	86	0	3
PHILIPPINES	0	0	0	0	0	0	0	0
TURKEY	0	0	0	0	32	1,617	0	0
GHANA	0	2	8	440	18	1,012	0	0
INDONESIA	0	0	0	0	17	481	0	0
OTHER COUNTRY	0	0	118	787	8	314	0	0
SWEDEN	0	0	8	488	1	48	0	0
NEWZEALAND	0	0	0	1	1	22	0	0
BENIN	0	0	0	0	1	15	0	0
MAURITIUS	0	0	0	0	0	6	0	0
MEXICO	0	0	0	0	0	1	0	0
MOZAMBIQUE	0	0	0	0	0	0	0	0
SUDAN	0	3	0	0	0	0	0	0
YAMEN ARAB REP	1	13	0	0	0	0	0	0
UNSPECIFIED	0	0	0	0	0	0	10	873
Total	14,040	298,871	19,652	567,016	21,670	795,731	15,472	417,836

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from exports were Rs. 27.01 / kg for Apr-Dec 2007, Rs. 36.72 / kg for 2006-07. Rs. 28.85 / kg for 2005-06 and Rs. 21.29 / kg for 2004-05.

Maharashtra and Karnataka lead in pomegranate production in the country. Hence, it is natural that the two states lead even in exports. Maharashtra has an advantage since pomegranate production is through out the year, while in case of Karnataka, the season is only from January to April with peak in February-March. Maharashtra has two export processing centres at Indapur and Baramati, both in Pune district.



Ganesh variety

Pomegranate is gaining popularity among farmers. Government is also encouraging pomegranate farming. With increasing production, farmers are also taking steps to comply with export regulations and registrations.

Important varieties cultivated are Ganesh, Dholka, Seedless (Bedana), Bhagwa, Araktha. Seedless varieties such as Paper Shell, Spanish Ruby, Mascut Red and Velladu show great potential

Pomegranate exports hold great potential and are likely to increase in the next few years.

8.10 Other fresh fruits

Table 8.11 – Export of other fresh fruits HS Code 08109090

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
NEPAL	7,574	66,981	4,599	35,069	3,962	39,794	3,407	33,277
BANGLADESH	839	6,740	2,767	29,991	887	11,786	877	9,969
U.K.	318	8,438	177	6,435	219	7,307	224	6,229
U.A.E.	500	7,656	926	18,438	828	19,729	134	3,508
CHINA	92	2,817	0	0	0	2	106	1,214
QATAR	44	825	28	1,700	250	8,247	65	1,007
KUWAIT	96	1,580	138	2,509	29	937	55	899
OMAN	6	798	25	1,285	158	7,024	52	2,022
U.S.A.	418	5,813	23	1,302	75	2,313	44	910
BAHRAIN	53	793	90	3,425	24	609	23	302
RUSSIA	0	0	0	0	0	0	22	397
SPAIN	0	0	0	0	0	0	13	192
SAUDI ARABIA	141	2,170	163	3,346	97	2,225	10	238
AUSTRALIA	0	0	3	72	3	66	10	497
MALDIVES	13	147	2	89	7	189	9	302
CANADA	13	441	34	893	70	1,806	8	119
EGYPT	0	0	0	0	20	1,123	8	1,259
NETHERLANDS	22	426	11	516	129	1,307	6	296
SINGAPORE	155	4,366	13	947	13	229	5	112
CYPRUS	0	0	0	0	1	48	3	62
ITALY	0	0	1	202	0	0	1	17
SWITZERLAND	13	771	22	1,529	34	2,033	1	11
BAHAMAS	0	0	1	20	0	0	1	23
GERMANY	24	771	14	500	15	1,277	1	11
PURETO RICO	0	0	0	0	0	0	0	7
FRANCE	9	424	18	388	2	115	0	4
MALAYSIA	0	0	0	0	52	338	0	0
BELGIUM	60	1,248	0	0	48	5,395	0	0
SYRIAN AR REP	0	0	0	0	36	223	0	0
CONGO	0	0	0	0	19	212	0	0
OTHER COUNTRY	0	0	26	187	14	700	0	0
UKRAINE	0	0	2	41	13	431	0	0
YAMEN ARAB REP	0	0	93	1,886	8	333	0	0



Sapota

(Table 8.10 continued on next page)

Table 8.11 – Export of other fresh fruits HS Code 08109090 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
JAPAN	0	5	0	0	5	171	0	0
BOSNIA-HRZGOV	0	0	5	66	4	83	0	0
NORWAY	0	1	0	0	3	175	0	0
MOROCCO	0	0	0	0	1	46	0	0
AFGHANISTAN	0	0	0	0	1	45	0	0
PHILIPPINES	0	0	0	0	1	11	0	0
PORTUGAL	0	0	1	77	1	25	0	0
HONG KONG	11	236	0	119	0	12	0	0
SOUTH AFRICA	1	7	1	11	0	3	0	0
GEORGIA	1	9	0	0	0	4	0	0
MONGOLIA	0	0	0	0	0	2	0	0
DENMARK	0	0	0	0	0	1	0	0
SRI LANKA	0	0	8	114	0	0	0	0
PAKISTAN	0	0	6	57	0	0	0	0
FIJI	0	0	5	227	0	0	0	0
AMERICAN SAMOA	0	0	1	19	0	0	0	0
ARGENTINA	0	0	1	34	0	0	0	0
BRUNEI	0	0	1	10	0	0	0	0
ERITREA	0	0	0	57	0	0	0	0
AUSTRIA	1	18	0	0	0	0	0	0
BELIZE	4	22	0	0	0	0	0	0
BRAZIL	3	122	0	0	0	0	0	0
GREECE	1	69	0	0	0	0	0	0
NIGERIA	7	78	0	0	0	0	0	0
SOLOMON ISL.	1	13	0	0	0	0	0	0
SUDAN	50	429	0	0	0	0	0	0
SWAJILAND	1	143	0	0	0	0	0	0
UZBEKISTAN	10	386	0	0	0	0	0	0
UNSPECIFIED	0	0	0	0	0	0	15	279
Total	10,480	114,741	9,207	111,561	7,029	116,377	5,099	63,163

Source: APEDA / DGCIS / Department of Commerce, Government of India



Litchi

Some major fruits covered in the above category are litchi, pineapple and sapota.

8.11 Other fresh or dried guavas / mangoes

Table 8.12 – Export of other fresh or dried guavas / mangoes HS Code 08045090

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
SAUDI ARAB	1,525	42,576	1,763	36,299	2,104	53,516	2,865	55,431
BANGLADESH PR	584	5,806	947	7,558	1,031	11,388	1,097	9,121
U ARAB EMTS	544	17,024	980	30,322	2,273	61,701	949	15,870
NETHERLAND	596	25,870	1,748	62,205	4,158	160,419	799	29,289
YEMEN REPUBLIC	140	2,766	120	1,888	414	7,022	674	10,656
NEPAL	601	5,600	1,014	9,617	543	11,803	387	4,440
U S A	242	4,021	117	4,352	326	10,372	291	10,085
JORDAN	43	928	12	274	32	947	208	3,202
SINGAPORE	74	2,473	130	2,653	102	2,570	145	2,775
KUWAIT	56	2,921	471	8,534	418	9,423	107	2,247
MALAYSIA	30	670	159	3,650	130	2,720	97	1,984
GERMANY	68	3,585	69	3,085	359	14,690	94	5,057
UGANDA			40	877	20	442	63	1,102
U K	200	9,806	209	6,458	447	13,114	61	2,052
BHUTAN					100	1,018	60	3,042
JAPAN	306	18,697	828	48,202	381	22,063	60	2,672
NEW ZEALAND	17	222			5	134	51	645
OMAN	11	921	250	5,219	66	1,912	42	803
SYRIA							42	706
SUDAN	71	1,801	137	4,327	137	2,424	42	612
ARMENIA					81	1,954	41	891
LEBANON	23	1,393	41	855	40	904	40	706
FRANCE	495	18,060	359	18,693	410	24,373	35	2,066
ITALY	0	3	18	1,566	85	4,341	20	939
UKRAINE			109	4,501	161	6,609	18	682
BAHARAIN IS	11	569			40	922	15	442
QATAR	22	899					12	612
VIETNAM S REP			20	537	31	738	10	249
CANADA	39	1,469	193	7,197	56	1,910	8	272
KENYA	0	0			0	3	8	186
AUSTRALIA					29	1,200	3	118
ISRAEL					20	395	1	49
MAURITIUS	1	24	21	385	8	334	1	36
MALDIVES			1	33	2	79	1	18
BELGIUM					23	1,227	0	13
UNSPECIFIED	0	6			0	7	0	4
SPAIN					40	1,576	0	2

(Table 8.12 continued on next page)

Table 8.12 – Export of other fresh or dried guavas / mangoes HS Code 08045090 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
MALAWI							0	2
GHANA	0	1					0	1
PAKISTAN							0	0
SOUTH AFRICA			0	17	0	0	0	0
ALGERIA			34	1,692				
BRUNEI	1	19						
AUSTRIA	0	2	1	12				
CHINA P RP	0	0			20	1,100		
CZECH REP	78	4,800						
DENMARK	51	2,137						
FINLAND	38	2,229	42	1,668	69	4,020		
FR POLYNESIA	34	1,847						
INDONESIA	0	76						
IRAN					122	6,854		
KOREA RP	11	435			19	1,056		
LIBYA					21	446		
MALI					0	4		
NORWAY			1	25				
PHILIPPINES			0	5				
RUSSIA			150	6,231	252	6,583		
SEYCHELLES					15	487		
SRI LANKA DSR			21	212	5	214		
SWEDEN			1	8				
SWITZERLAND					0	24		
THAILAND	30	1,156						
Total	5,945	180,812	10,007	279,157	14,594	455,038	8,348	169,082

Source: APEDA / DGCIS / Department of Commerce, Government of India



Guava

9. Export of nuts

9.1 Cashew nuts

India used to traditionally import cashew nuts in shell and export kernels. Export of cashew nuts in shell is a recent phenomenon and volumes are still very small. Vietnam is the only major buyer of cashew nuts in shell.

Table 9.1 – Export of cashew nuts in shell HS Code 08013100

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
VIETNAM S REP					1,615	153,619	364	67,072
NEPAL			1	127	6	1,054	28	5,845
NETHERLAND							24	5,060
U K	1	155	1	138	6	554	10	2,183
FRANCE							4	1,029
AUSTRIA							3	817
MALAYSIA			0	30	1	103	1	104
MALDIVES	1	79	1	40	0	18	1	113
U S A	0	6	106	12,776			0	17
BAHARAIN IS			1	93				
BANGLADESH PR			2	195	0	65		
TAIWAN					1	125		
GERMANY			1	275				
ISRAEL	1	57						
KOREA RP	10	1,309						
LEBANON			16	7,086				
MAURITIUS			1	116	2	128		
POLAND	0	6						
QATAR	3	719						
SINGAPORE			1	62	0	12		
SRI LANKA DSR					24	3,838		
Total	15	2,331	129	20,938	1,655	159,516	435	82,239

Source: APEDA / DGCIS / Department of Commerce, Government of India



Average realization from exports of cashew nuts in shell was Rs. 189.04 / kg for Apr-Dec 2007, Rs. 96.40 / kg for 2006-07. Rs. 162.49 / kg for 2005-06 and Rs. 150.58 / kg for 2004-05.

Table 9.2 – Export of cashew kernel, broken HS Code 08013210

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U S A	9,413	1,756,329	5,638	945,510	5,394	847,690	2,379	360,140
U ARAB EMTS	584	93,811	803	106,277	741	93,533	605	91,144
NETHERLAND	352	59,749	338	64,981	411	68,763	324	50,267
SAUDI ARAB	310	51,986	668	89,649	448	53,403	230	30,765
JAPAN	72	12,378	91	12,088	27	3,918	226	39,378
RUSSIA	458	68,218	651	88,125	429	57,763	128	16,930
INDONESIA	49	9,382			32	5,178	94	14,404
SYRIA	227	37,139	159	24,686	210	37,879	83	10,989
U K	155	33,811	156	27,457	233	41,422	66	11,166
ITALY	144	25,886	160	24,502	200	31,046	64	9,750
MALAYSIA	6	859	72	10,422	18	2,855	57	4,973
LEBANON	160	29,210	149	23,763	59	9,081	55	7,813
JORDAN	31	6,162	66	9,902	26	6,318	52	8,688
BAHARAIN IS	109	14,903	169	20,929	78	10,577	43	6,414
GERMANY	60	9,748	47	9,725	44	6,000	38	7,160
KUWAIT	57	7,812	150	23,436	126	14,966	36	6,327
NEPAL	8	1,212	2	371	13	2,460	34	6,468
AUSTRALIA			0	89	1	301	32	4,630
CANADA	76	13,490	10	3,191	16	1,902	25	4,093
EGYPT ARP	35	3,813	33	6,108	48	6,702	23	2,532
SOUTH AFRICA	45	10,004			16	1,980	20	3,416
QATAR	3	816	83	11,206	45	5,588	19	1,780
TURKEY							17	3,270
FRANCE	131	23,681	128	20,632	50	8,649	16	2,512
SINGAPORE	35	8,296	287	37,592	15	2,657	3	517
PAKISTAN IR					1	97	2	354
OMAN	1	84	1	126	3	380	1	270
MALDIVES	0	105	1	132	2	296	1	147
SWITZERLAND	1	288			3	453	1	238
NETHERLAND A.							0	73
MAURITIUS	0	26			2	227	0	2
PANAMA REP	1	75	1	43			0	34
SUDAN							0	12
BANGLADESH PR					0	110		
BELGIUM	155	28,041	16	3,897	16	3,192		
BOTSWANA	0	57						
BRUNEI	32	7,831	1	154				
TAIWAN	4	475						
CYPRUS					19	4,220		
CZECH REP	31	6,186	57	8,117	39	6,320		
FINLAND	97	15,673	137	20,452	16	1,995		
GREECE	50	7,831	97	16,831	30	7,477		
HONG KONG	4	706	2	230	10	1,498		

(Table 9.2 continued on next page)

Table 9.2 – Export of cashew kernel, broken HS Code 08013210 (Continued)



Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
HUNGARY			17	2,833				
ISRAEL	16	3,937			16	2,215		
KOREA RP			7	979	19	883		
LATVIA	62	8,339	80	11,946				
LIBYA			33	5,380				
LITHUANIA	22	4,760	51	6,489				
MALTA					14	2,782		
NEW ZEALAND	3	851	9	1,405				
NORWAY			11	288				
PARAGUAY	16	1,387						
PHILIPPINES			5	880				
POLAND			17	3,290	10	2,661		
PORTUGAL					1	48		
REUNION	0	9			0	1		
SEYCHELLES	0	8						
SPAIN	45	10,429	79	18,280	15	2,121		
SRI LANKA DSR	11	1,654			19	2,084		
TANZANIA REP					0	97		
THAILAND					32	5,082		
UKRAINE					16	2,887		
Total	13,070	2,377,447	10,478	1,662,393	8,965	1,367,757	4,673	706,655

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realization from export of broken cashew kernel was Rs. 151.22 / kg for Apr-Dec 2007, Rs. 152.57 / kg for 2006-07. Rs. 158.66 / kg for 2005-06 and Rs. 181.90 / kg for 2004-05.

Raw cashew nut is the main commercial product of cashew tree, though yields of cashew apple are eight to ten times the weight of raw nuts. Raw nuts are either exported or processed prior to export. Processing of raw nuts releases the by-product CNSL that has industrial and medicinal applications. Skin of the nut is high in tannins and can be recovered and used in tanning of hides. Fruit of cashew tree that surrounds the kernel can be made into a juice with high vitamin C content and fermented to give a high proof spirit.

Three main cashew products are traded on the international market: raw nuts, cashew kernels and cashew nut shell liquid (CNSL). A fourth product, cashew apple is generally processed and consumed locally. Cashew kernels can either be whole or broken. Whole kernels are used as snacks, while broken kernels are used as ingredient in bakery, confectionery and other food products.

Table 9.3 – Export of cashew kernel, whole HS Code 08013220

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
AFGHANISTAN			7	1,734	16	2,592		
ALGERIA			118	21,800	45	9,204	81	14,615
AMERI SAMOA			1	76				
AUSTRALIA	714	153,869	1,367	265,071	1,295	253,227	1,879	340,936
AUSTRIA	1	172	11	1,937	13	3,132	25	5,333
BAHARAIN IS	290	50,478	352	59,081	456	81,595	225	38,301
BELGIUM	2,369	518,345	2,487	533,594	2,275	472,838	1,754	340,673
BOTSWANA	1	173	1	122	0	11		
BR VIRGN IS					16	3,269		
BRUNEI	83	19,797	125	24,804	125	24,031	150	26,855
BULGARIA	125	29,105	292	60,778	288	62,649	111	21,256
CANADA	1,215	253,415	1,597	324,808	1,314	268,938	338	62,121
TAIWAN	97	18,118	69	14,501	142	29,146	48	8,988
CHINA P RP			68	10,590	15	2,353	15	3,040
CROATIA							15	3,102
COSTA RICA	0	1			66	15,919		
CYPRUS	153	31,211	258	41,198	203	50,719	220	49,359
CZECH REP	50	10,336	214	39,119	415	64,491	125	20,308
DENMARK					3	705		
EGYPT A RP	338	80,957	325	77,348	801	165,851	664	131,737
ESTONIA	15	3,728	35	4,150			16	2,640
FINLAND	16	2,063	81	17,125	15	3,505	16	3,478
FIJI IS			2	473	2	572		
FRANCE	2,777	565,316	3,691	745,529	3,502	745,922	2,446	475,587
GEORGIA							15	3,111
GERMANY	1,766	379,414	1,966	414,319	1,726	322,402	1,264	238,249
GHANA	0	0						
GREECE	1,490	326,119	1,854	407,588	1,907	413,194	1,377	286,822
HONG KONG	685	146,366	772	179,089	681	170,742	532	121,032
HUNGARY	81	16,646	31	6,995	32	5,820	32	5,792
INDONESIA	17	2,124			48	8,126	105	16,636
IRELAND	16	3,200	17	3,699				
IRAN							94	20,240
ISRAEL	843	199,900	806	182,322	925	218,045	549	115,540
ITALY	900	197,601	1,014	222,130	1,002	230,197	293	55,497
JAPAN	4,414	969,673	4,633	1,088,947	4,209	903,487	3,126	646,387
JORDAN	528	119,579	744	157,915	716	146,921	785	159,168
KAZAKHSTAN			68	10,074	104	16,438	33	5,166
KENYA			0	25				
KOREA DP RP			2	282				
KOREA RP	213	49,651	297	60,778	403	82,473	543	110,951
KUWAIT	502	104,020	839	176,050	1,011	209,538	486	99,294
LATVIA	32	6,904	177	29,278	145	25,743	154	25,849
LEBANON	481	102,564	351	64,901	332	73,200	151	31,220
LIBYA			112	19,367	222	36,398	30	5,733
LITHUANIA	146	31,997	77	16,686	300	53,673	168	30,420
LUXEMBOURG					16	3,189		

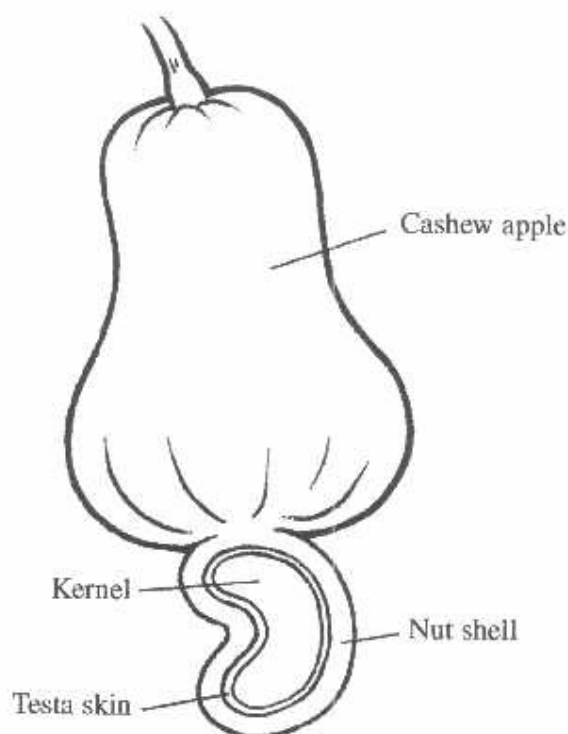
(Table 9.3 continued on next page)

Table 9.3 – Export of cashew kernel, whole HS Code 08013220 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
MALAYSIA	153	33,418	312	55,263	406	70,253	375	66,842
MALDIVES	6	934	6	1,414	10	739	3	670
MALI					1	142		
MALTA	23	2,485	11	2,354				
MAURITIUS	16	3,836	31	6,798	12	2,630	20	3,772
MOROCCO					33	6,685	184	35,381
NEPAL	56	10,801	70	14,269	143	25,269	141	25,802
NETHERLAND	14,176	3,138,918	18,768	4,042,077	18,836	3,713,120	9,821	1,831,073
NEW ZEALAND	132	30,456	212	45,146	182	37,131	286	58,524
NORWAY	1,201	261,325	947	203,472	1,123	229,951	784	149,280
OMAN	0	17	3	660				
PAKISTAN IR	11	2,405	103	23,373	48	10,755	82	16,138
PANAMA REP	1	213	2	322			1	160
PARAGUAY	16	1,009						
PHILIPPINES	1	171	3	449	1	102	0	24
POLAND	58	10,871	190	36,951	192	33,999	250	47,013
PORTUGAL	96	24,251	101	22,672	117	24,272	112	22,532
QATAR	91	19,520	109	14,547	244	40,372	207	36,998
REUNION					0	9		
ROMANIA			32	6,896	31	6,698	16	3,259
RUSSIA	1,645	325,212	1,664	318,212	1,002	181,589	585	105,739
SAUDI ARAB	2,657	496,234	2,807	518,035	3,523	617,194	2,873	498,211
SEYCHELLES			0	60				
SINGAPORE	971	197,191	1,337	256,481	1,272	235,003	1,095	206,498
SLOVENIA	16	4,261	15	3,475	16	2,829	16	2,481
SOUTH AFRICA	210	40,059	218	39,859	293	55,265	220	38,707
SPAIN	2,551	573,847	2,925	632,280	2,292	490,993	1,930	389,328
SRI LANKA DSR			47	9,822	12	2,408		
SWEDEN	18	3,826	32	6,511	232	47,744	189	36,161
SWITZERLAND	0	107	1	151	37	8,858	16	3,193
SYRIA	488	96,025	1,146	241,598	1,115	252,437	983	210,290
THAILAND	249	63,311	574	122,411	495	98,635		
TOGO			0	5				
TRINIDAD	164	28,331	291	57,831	315	63,488	235	44,940
TUNISIA	93	21,118	31	6,516	47	9,574	16	3,139
TURKEY	258	57,075	492	102,484	790	163,037	595	118,504
U ARAB EMTS	5,860	1,252,882	8,947	1,785,921	9,973	1,982,570	8,621	1,722,674
U K	6,298	1,383,322	6,585	1,425,851	4,722	934,385	2,752	560,408
UKRAINE			190	30,659	157	31,693	252	48,509
U S A	46,885	9,886,259	41,192	8,810,754	39,557	8,796,551	26,549	5,312,935
VIETNAM S REP					47	11,424		
VIRGIN IS US	32	7,063						
UNSPECIFIED			16	3,559	31	7,342	0	1
Total	104,787	22,369,595	114,271	24,133,421	112,092	23,375,401	77,073	15,124,621

Source: APEDA / DGCIIS / Department of Commerce, Government of India

Average realizations from exports were Rs. 196.24 / kg for Apr-Dec 2007, Rs. 208.54 / kg for 2006-07. Rs. 211.19 / kg for 2005-06 and Rs. 213.48 / kg for 2004-05.



Cashew Kernels are graded into white / scorched wholes, pieces, splits, butts etc. depending on the shape, size & colour of the kernel. Law in India prescribes 33 different grades of cashew kernels. Only 26 grades are commercially available and exported. They are as follows:

W - 180, is the ' King of Cashew ' - They are larger in size and very expensive.

W - 210 are popularly known as 'Jumbo' nuts.

W - 240, it is an attractive grade, which is reasonably priced.

W - 320, is the most popular among cashew kernels and highest in terms of availability, worldwide.

W - 450, is the smallest and cheapest white whole kernels and hence the favorite among low priced whole grades.

Scorched wholes are another grade of cashew kernels, which have a slight brown colour due to longer roasting. They have all the other characteristics of white kernels and have the same nutritional qualities. Butts, splits and pieces are priced lower and are ideal for cooking, preparation of sweets and savory snacks.

Cashew kernels in bulk are packed in four gallon prime tins with a net weight of 11.34 Kg (or 25 lbs) in each tin. The filled tins are vacuumized and filled with carbon-dioxide gas and sealed. Two such tins of the same grade are packed in a carton for export. The net weight of each carton is thus 22.68 Kg. (50 lbs.). Some manufacturers also pack in tins of 10 kg net to suit requirements of buyers in certain markets. Recently, some exporters have started using flexible packs instead of tins as many buyers opt for new generation flexible packs. (Source: The Cashew Export Promotion Council of India)

9.2 Walnuts



Table 9.4 – Export of shelled walnuts HS Code 08023200

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
SPAIN	980	197,567	1,088	266,153	771	193,146	702	174,129
FRANCE	347	56,309	227	44,997	661	142,789	530	112,842
NETHERLANDS	433	66,555	369	78,934	277	64,560	404	100,232
U.K.	802	118,083	491	93,721	433	96,352	388	83,888
GERMANY	632	117,727	748	168,422	420	102,066	309	75,735
U.S.A.	0	0	0	0	0	0	246	52,093
EGYPT	466	95,739	699	190,401	458	138,814	213	58,247
GREECE	335	53,433	181	37,532	191	44,464	210	45,609
U.A.E.	84	17,784	13	4,037	194	46,866	183	46,202
BELGIUM	32	4,584	46	7,138	60	12,609	97	21,684
DENMARK	274	49,100	250	59,587	236	63,612	82	19,381
ITALY	31	3,893	17	4,718	25	4,687	56	14,006
CYPRUS	88	14,095	35	7,974	47	13,911	52	11,873
RUSSIA	0	0	12	1,991	65	17,951	52	12,955
AUSTRALIA	78	10,821	36	5,801	58	10,883	51	11,356
AUSTRIA	49	8,411	103	21,001	52	11,538	38	8,328
NEWZEALAND	88	13,827	51	10,652	109	25,795	32	8,025
SWEDEN	21	3,336	90	24,239	132	36,433	31	9,128
LITHUANIA	65	8,384	31	6,294	21	5,126	31	6,393
SAUDI ARABIA	0	0	0	0	51	14,408	29	7,176
TAIWAN	0	0	0	0	0	0	25	6,238
PORTUGAL	32	5,587	40	9,716	22	5,336	23	4,940
NORWAY	31	4,650	18	4,942	29	8,689	23	5,978
KUWAIT	154	17,509	142	36,198	173	46,421	21	5,810
IRELAND	0	0	0	0	0	0	14	2,366
BAHRAIN	26	5,878	9	2,536	22	6,336	11	2,284
LATVIA	0	0	10	1,994	0	0	11	2,951
NEPAL	4	604	17	1,339	15	1,808	0	11
SINGAPORE	4	544	1	170	4	424	0	11
URUGUAY	67	9,794	24	4,154	53	11,611	0	0
ALGERIA	12	1,849	0	0	24	5,345	0	0

(Table 9.4 continued on next page)

Table 9.4 – Export of shelled walnuts HS Code 08023200 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
OTHER COUNTRY	0	0	0	0	21	5,234	0	0
TUNISIA	80	17,282	10	2,584	19	5,487	0	0
CHINESE TAIPEI	161	18,029	145	20,093	12	2,807	0	0
ARGENTINA	11	1,807	23	5,163	12	2,768	0	0
SOUTH AFRICA	1	150	0	0	11	2,735	0	0
MOROCCO	0	0	4	1,256	10	2,733	0	0
INDONESIA	114	12,673	95	2,436	0	0	0	0
SWITZERLAND	30	5,977	35	8,672	0	0	0	0
POLAND	0	0	10	1,933	0	0	0	0
QATAR	0	60	7	622	0	0	0	0
CANADA	13	1,862	1	211	0	0	0	0
MALAYSIA	35	7,055	1	151	0	0	0	0
KENYA	0	91	0	115	0	0	0	0
MAURITIUS	0	0	0	8	0	0	0	0
JAPAN	0	107	0	0	0	0	0	0
LEBANON	13	2,773	0	0	0	0	0	0
Total	5,593	953,929	5,077	1,137,885	4,686	1,153,742	3,863	909,873

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from export of shelled walnuts were Rs. 235.54 / kg for Apr-Dec 2007, Rs. 246.23 / kg for 2006-07. Rs. 224.11 / kg for 2005-06 and Rs. 170.55 / kg for 2004-05. Over 95 percent of walnut exports from India are kernels in vacuum packs.

Walnut is grown in India in the cold regions of Jammu & Kashmir and Himachal Pradesh. Political disturbances in the state of Jammu & Kashmir have often come in the way of introduction of new advanced technologies in the state. Walnut production growth may also be suffering due to absence of innovations or new technologies in the field.

Top walnut producers in the world are China (503,000 tons), U.S.A. (290,300 tons), Turkey (184,251 tons), Iran (170,000 tons), Ukraine (90,500 tons), Mexico (69,000 tons), Romania (38,500 tons), France (38,000 tons) and India (34,000 tons) followed by Egypt (27,000 tons), Greece (25,000 tons) and Serbia (24,823 tons). (Source: FAO, production figures relate to walnut with shell and year 2007).

USA is the world's largest exporter of walnuts. India has been losing her place in walnut exports due to almost stagnant production. From 2002 to 2007, India production of walnuts with shell increased from 30,000 tons to 34,000 tons. During the same period, production in Turkey increased from 120,000 tons to 184,251 tons, China production increased from 343,305 tons to 503,000 tons and Ukraine production increased from 57,049 tons to 90,500 tons. Even USA increased production from 255,830 tons to 290,300 tons. (Source: FAO)

Europe has traditionally been the market for walnuts from India. Increasing production in Turkey, Ukraine and Greece is putting pressure on Indian walnut exports. Strong domestic market is also a disincentive to export.

To conclude one can say that Indian walnut exports are going to keep moving down and a day may not be far when India is no longer counted as a walnut exporter.

9.3 Groundnuts

Table 9.5 – Export of groundnuts prepared / preserved HS Code 20081100

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
MALAYSIA	1,021	28,638	7,009	200,374	4,084	113,004	953	36,480
U.K.	28	1,283	1	35	264	7,041	171	6,995
PHILIPPINES	508	14,095	726	19,451	1,017	34,446	160	6,326
INDONESIA	1,895	52,376	8,312	218,798	8,918	267,317	140	4,549
BRUNEI	19	518	54	2,000	80	2,509	140	5,833
GERMANY	0	0	0	0	171	6,786	133	6,182
SAUDI ARABIA	12	354	137	4,685	198	6,235	120	5,406
TAIWAN	0	0	0	0	0	0	67	5,616
SRI LANKA	52	550	22	833	16	642	63	1,083
KUWAIT	7	226	12	478	58	1,970	61	2,337
EGYPT A REP	0	0	0	0	0	0	44	1,581
U.A.E.	1	31	670	19,576	234	6,936	40	2,245
MALDIVES	30	900	48	1,308	33	1,351	39	1,351
BAHRAIN	4	250	5	170	10	389	37	716
PAKISTAN	0	0	17	629	30	683	34	1,689
NEPAL	7	105	3	140	0	0	33	1,180
QATAR	6	247	10	336	12	464	22	1,027
BELGIUM	0	4	0	0	0	0	19	757
SINGAPORE	78	2,193	382	10,554	20	530	18	511
LEBYA	0	0	0	0	0	0	14	785
U.S.A.	3	124	79	6,088	35	1,576	9	467
CANADA	0	7	3	130	0	0	8	161
SWITZERLAND	0	0	0	0	1	32	4	54
AUSTRALIA	0	0	7	353	10	280	1	14
OMAN	0	0	0	0	0	0	1	20
GHANA	0	0	0	0	0	0	0	2
BENIN	0	0	0	0	0	0	0	0
CHINESE TAIPEI	0	0	1,191	41,406	279	9,781	0	0
OTHER COUNTRY	1	17	0	0	132	4,525	0	0
YAMEN AR REP	0	0	0	0	60	2,033	0	0
ALGERIA	0	0	0	0	38	1,325	0	0
NETHERLANDS	0	0	0	0	19	795	0	0
MAURITIUS	0	0	6	189	10	415	0	0
SEYCHELLES	0	0	0	0	2	33	0	0
THAILAND	258	2,779	0	0	0	21	0	0
REUNION	0	1	0	7	0	0	0	0
BOTSWANA	0	0	0	9	0	0	0	0
JAPAN	0	0	0	3	0	0	0	0
FIJI	1	39	0	4	0	0	0	0
TURKEY	39	1,209	0	0	0	0	0	0
VIETNAM	540	5,724	0	0	0	0	0	0
Total	4,509	111,670	18,694	527,559	15,731	471,117	2,330	93,364

Source: APEDA / DGCIIS / Department of Commerce, Government of India

Average realizations from export of groundnuts were Rs. 40.07 / kg for Apr-Dec 2007, Rs. 29.95 / kg for 2006-07. Rs. 28.22 / kg for 2005-06 and Rs. 24.77 / kg for 2004-05.

Most of the exports of groundnuts from India are of hand-picked-selected (HPS) nuts used for snacks. A small quantity of exports is also of confectionery groundnuts.

The cultivated groundnut is defined as one of four types:

- i) **Runner:** Runner have become the dominant type, because of their attractive size range which makes them useful for a variety of products;
- ii) **Virginia:** Virginias have the largest kernels and account for most of the groundnuts roasted and eaten as in-shell. When shelled, the larger kernels are sold as salted-groundnuts. They are also used in confectionery products;
- iii) **Spanish:** Spanish type groundnuts have small kernels covered with a reddish-brown skin. They are used predominately in groundnut candy, with significant quantities used for salted nuts and groundnut butter. They have a higher oil contents than others types
- iv) **Valencia:** Valencia's usually have three or more small kernels to a pod. They are very sweet groundnut and are usually roasted and sold in the shell. They are excellent for fresh use as boiled groundnuts.

India produces two sizes of groundnut kernel, medium and small. The medium-size kernels, known as "Bombay Bolds", generally have a count of 50/55 kernels per ounce. They can also be graded to 40/50 kernels per ounce, though availability at this size is limited. The small-size kernel called "Java" type, is equivalent to the US "Spanish" or the South African "Red Natal". The generally traded grade of Java is 70/80 kernels per ounce.

Bureau of Indian Standards has prescribed certain grades for groundnuts (kernels for oil milling and handpicked selections) produced and marketed in the country. These standards are based on trade practices followed in the country in respect of the type and grades.

Table 9.6 – Specifications prescribed by Bureau of Indian Standards for HPS Groundnuts

Characteristics	HPS Bold 1	HPS Bold 2	HPS Bold 3	HPS Khandesh
Number of kernels per 25 g of the material	Max 40	45 to 53	54 to 58	71 to 75
Broken, damaged and slightly damaged kernels, % by weight (max)	Nil	1	1	1

Gujarat, Andhra Pradesh, Tamil Nadu and Maharashtra are leading states for groundnut production in the country. However, Gujarat, particularly the North-Western region of the state called Saurashtra, is famous for its groundnuts due to crunchy texture, nutty flavor and big size. So, HPS groundnut exports are mainly from this region of the state of Gujarat.

A few years ago, HPS groundnut exports were affected by detection of aflatoxin in some consignments. No such cases have been reported in recent past.

10. Export of pulses

10.1 Chick peas



Table 10.1 – Export of chick peas (Garbanzos) dried & shelled HS Code 07132000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
PAKISTAN	429	9,007	2,817	87,195	9,276	323,192	46,124	1,291,910
ALGERIA	3,297	141,030	9,137	363,346	7,844	296,590	19,337	696,487
U.A.E.	1,024	29,165	3,397	122,244	10,543	358,739	11,996	377,949
EGYPT	23	333	2,047	63,506	1,831	69,745	9,791	321,685
SRI LANKA	1,723	27,679	3,271	102,441	5,178	166,085	8,041	257,277
TURKEY	0	0	1,555	59,031	1,167	44,014	6,104	203,215
SAUDI ARAB	777	20,748	3,670	138,097	4,639	169,914	5,460	172,820
LEBANON	214	9,093	442	16,057	925	29,189	4,392	137,447
TUNISIA	443	18,011	1,601	64,066	2,724	103,919	4,367	166,760
JORDAN	0	0	240	9,928	742	26,334	3,615	114,058
PORTUGAL	0	0	824	34,176	1,761	67,435	3,199	106,701
SPAIN	1,028	40,784	2,222	80,777	525	19,703	2,671	94,717
KUWAIT	574	13,170	699	24,691	2,138	70,100	2,248	71,763
FRANCE	168	6,195	543	21,965	509	19,212	1,969	65,357
LIBYA	0	0	215	8,272	1,300	49,266	925	30,205
MALAYSIA	188	6,517	473	17,182	939	35,139	843	27,429
IRAQ	0	0	0	0	0	0	840	29,377
U.S.A.	429	10,214	615	13,134	1,064	38,434	771	24,902
ITALY	519	21,140	2,231	91,128	1,568	58,981	728	24,360
GREECE	49	2,059	577	25,176	188	7,154	725	24,427
BELGIUM	0	0	0	0	44	1,720	698	20,814
U.K.	622	13,078	754	17,150	1,329	49,652	668	21,012
BAHRAIN	243	7,239	393	14,544	1,087	38,493	665	23,085
TRINIDAD AND TO	0	0	165	6,609	122	4,859	424	14,440
CANADA	265	6,147	258	6,879	242	9,231	406	13,181
SOUTH AFRICA	0	0	2	93	171	4,790	389	12,581
QATAR	271	5,668	220	4,779	611	20,789	317	9,969
OMAN	0	0	41	727	226	8,225	281	8,795

(Table 10.1 continued on next page)



Table 10.1 – Export of chick peas (Garbanzos) dried & shelled HS Code 07132000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
SINGAPORE	0	0	0	0	0	0	255	8,007
YAMEN ARAB REP	0	0	30	869	46	1,732	201	6,634
NETHERLANDS	0	0	125	2,536	0	0	168	5,815
PHILIPPINES	0	0	72	2,615	98	4,794	144	5,587
SYRIAN ARAB REP	0	0	524	22,138	0	0	96	3,461
CYPRUS	0	0	24	1,022	23	969	70	2,493
HONG KONG	0	0	0	0	45	1,460	65	2,334
MAURITIUS	303	6,308	148	3,176	302	11,111	57	1,860
SURINAM	0	0	0	0	0	0	50	1,836
ISRAEL	114	4,894	633	23,057	192	7,358	49	1,930
FIJI IS	0	0	0	0	0	0	40	1,628
THAILAND	48	622	1	37	60	1,973	33	969
SWEDEN	0	0	0	0	24	846	24	774
CROATIA	0	0	24	831	0	0	24	850
INDONESIA	0	0	17	689	14	758	20	717
CHINA	16	167	0	0	0	0	19	723
JAPAN	0	0	0	9	16	621	18	585
BRUNEI	1	17	10	308	0	0	17	657
TANZANIA	0	0	3,433	36,862	0	0	9	328
TAIWAN	0	0	0	0	0	0	9	312
NEWZEALAND	0	0	21	1,030	71	2,329	8	26
GERMANY	31	1,085	26	607	46	1,626	6	150
MALDIVES	14	246	17	510	8	334	3	118
LIBERIA	0	0	49	1,808	0	0	2	55
BENIN	0	0	0	0	3	146	2	56
SEYCHELLES	0	0	0	0	0	0	1	52
NEPAL	464	5,137	0	0	47	1,354	1	20
KENYA	3	65	0	0	14	303	1	34
SWITZERLAND	1	23	0	0	0	0	1	35
VIETNAM	0	0	0	6	0	0	1	7
CAMEROON	0	0	0	0	0	0	0	8
GAMBIA	0	0	0	1	0	0	0	6
HUNGARY	0	0	0	0	0	0	0	1
BANGLADESH	83	952	72	1,125	1,161	29,362	0	0
SINGAPORE	131	3,076	126	3,635	310	10,991	0	0
COLOMBIA	0	0	109	4,214	24	648	0	0

(Table 10.1 continued on next page)

Table 10.1 – Export of chick peas (Garbanzos) dried & shelled HS Code 07132000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
ROMANIA	0	0	0	0	24	901	0	0
ZAMBIA	0	0	0	0	21	685	0	0
CHINESE TAIPEI	0	0	44	1,759	20	796	0	0
AUSTRALIA	17	375	4	102	19	263	0	0
SEYCHELLES	81	2,282	47	1,381	19	576	0	0
MACAO	0	0	0	0	3	94	0	0
POLAND	0	0	0	0	3	110	0	0
NORWAY	0	0	0	0	0	6	0	0
TOGO	0	0	8	130	0	0	0	0
MOROCCO	0	0	75	2,977	0	0	0	0
KOREA REPUBLIC	12	246	10	289	0	0	0	0
GHANA	0	7	1	44	0	0	0	0
SUDAN	0	0	0	6	0	0	0	0
Total	13,603	412,776	44,060	1,506,964	61,304	2,173,051	139,390	4,410,793

Source: APEDA / DGCIS / Department of Commerce, Government of India

Government of India banned export of chick peas in the last week of June 2006. Ban continues till date. Exception to the ban was in case of imports under advance license scheme. In other words, for some time, importers could export. Simultaneously duty-free imports were allowed.

Comparative figures for imports and exports are as follows:

Table 10.2 – Comparison of imports and exports of chick peas (Garbanzos)

Year	Exports		Imports	
	Qty.	Realization	Qty.	Price
	Tons	Rs. / kg	Tons	Rs. / kg
2004-05	13,603	30.34	132,875	17.51
2005-06	44,060	34.20	281,756	19.01
2006-07	61,304	35.45	127,318	27.99
Apr-Dec 2007	139,390	31.64	77,815	23.36

The difference in import price and export realization is due to the fact that India exports cream colored chickpeas shown on the previous page, while imports are of a dark colored variety shown below.



10.2 Lentils



Table 10.3 – Export of lentils (mosur) dried & shelled HS Code 07134000

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.S.A.	2,525	72,721	2,220	65,112	1,482	47,783	44	2,428
ZAMBIA	0	0	0	0	2	50	2	91
NEPAL	2,151	41,784	8,226	185,502	5,873	132,091	2	37
UGANDA	0	0	5	58	2	38	1	40
KAZAKHSTAN	0	0	0	0	0	0	0	7
KOREA REPUBLIC	13	285	24	300	64	1,551	0	4
MALAYSIA	560	13,601	1,300	31,657	157	4,090	0	1
BANGLADESH	72,736	1,536,369	126,489	2,963,550	64,696	1,769,697	0	0
SRI LANKA	35,188	720,787	49,053	1,062,435	13,045	348,662	0	0
U.A.E.	4,502	94,667	8,818	204,235	12,017	302,040	0	0
SUDAN	3,568	83,436	18,503	465,437	10,855	259,099	0	0
PAKISTAN	5,685	125,816	32,039	687,202	2,994	62,459	0	0
KUWAIT	2,797	78,503	4,975	122,659	2,746	87,732	0	0
SAUDI ARABIA	2,392	60,419	4,786	109,158	2,694	75,521	0	0
QATAR	827	19,289	1,839	43,295	1,213	37,650	0	0
BAHRAIN	651	15,855	969	22,587	900	26,112	0	0
U.K.	1,324	34,188	2,188	58,080	865	24,909	0	0
SOUTH AFRICA	68	1,486	384	9,051	277	6,317	0	0
AUSTRALIA	101	2,444	272	9,502	176	5,017	0	0
OMAN	239	5,743	287	6,386	169	5,434	0	0
MAURITIUS	388	8,677	496	12,067	151	3,829	0	0
SINGAPORE	152	3,626	313	8,155	123	3,851	0	0
ITALY	195	5,820	156	5,914	83	3,001	0	0
YAMEN ARAB REPU	772	17,958	514	11,312	76	1,761	0	0
CANADA	308	7,743	807	19,529	53	1,603	0	0
LEBANON	50	1,120	0	0	48	1,269	0	0
FRANCE	110	2,682	94	2,567	42	1,169	0	0
JAPAN	15	297	38	1,392	42	1,195	0	0
KENYA	18	531	57	1,197	28	886	0	0
THAILAND	51	902	29	553	28	899	0	0

(Table 10.3 continued on next page)

Table 10.3 – Export of lentils (mosur) dried & shelled HS Code 07134000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
CYPRUS	0	0	5	132	24	274	0	0
GERMANY	53	1,284	80	1,726	18	660	0	0
NIGERIA	0	0	14	246	16	437	0	0
ISREAL	477	13,574	289	7,269	10	397	0	0
CONGO	0	0	0	0	8	167	0	0
SEYCHELLES	52	2,148	119	3,546	8	304	0	0
NEWZEALAND	17	430	106	2,691	7	216	0	0
DENMARK	0	0	0	0	4	114	0	0
RUSSIA	0	0	0	0	3	77	0	0
FIJI	4	99	8	185	3	32	0	0
VIETNAM	0	1	0	0	2	50	0	0
MALDIVES	11	238	6	124	2	65	0	0
TANZANIA	2	39	11	369	2	39	0	0
CHINA	4	136	0	0	2	44	0	0
PORTUGAL	0	1	219	8,756	1	35	0	0
BENIN	0	0	14	324	1	25	0	0
REUNION	8	159	1	25	1	32	0	0
CZECH REP.	0	0	0	0	0	10	0	0
PAPUA NEW GUINEA	0	0	0	17	0	6	0	0
SIERRA LEONE	0	0	0	0	0	1	0	0
EGYPT	2,898	70,033	11,012	255,464	0	0	0	0
ERITREA	0	7	2,321	55,273	0	0	0	0
ETHIOPIA	300	19,451	610	12,650	0	0	0	0
LIBYAN	0	0	360	8,799	0	0	0	0
TUNISIA	93	3,878	240	10,053	0	0	0	0
ALGERIA	162	6,114	239	9,137	0	0	0	0
SPAIN	220	8,396	136	5,448	0	0	0	0
MOZAMBIQUE	0	0	100	5,540	0	0	0	0
CHAD	0	0	96	1,245	0	0	0	0
GREECE	0	12	71	2,919	0	0	0	0
PERU	0	0	45	1,619	0	0	0	0
OTHER COUNTRY	0	0	40	1,798	0	0	0	0
CHINESE TAIPEI	0	0	38	932	0	0	0	0
BHUTAN	52	1,213	33	652	0	0	0	0
SWITZERLAND	4	123	30	923	0	0	0	0
SWEDEN	0	0	25	706	0	0	0	0
JORDAN	0	0	24	501	0	0	0	0
TURKEY	2,379	46,457	23	517	0	0	0	0
NORWAY	0	0	22	584	0	0	0	0
HONG KONG	4	99	20	468	0	0	0	0
NETHERLANDS	0	0	11	324	0	0	0	0
PHILIPPINES	0	0	7	179	0	0	0	0

(Table 10.3 continued on next page)

Table 10.3 – Export of lentils (mosur) dried & shelled HS Code 07134000 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
BRUNEI	0	0	5	158	0	0	0	0
BELGIUM	130	1,977	4	114	0	0	0	0
TRINIDAD AND TO	0	0	4	81	0	0	0	0
GHANA	0	2	3	101	0	0	0	0
GUINEA	0	4	2	23	0	0	0	0
MALAWI	0	0	1	15	0	0	0	0
ST. KITTS NEVIS	0	0	1	18	0	0	0	0
HUNGARY	0	0	0	13	0	0	0	0
GAMBIA	0	5	0	6	0	0	0	0
TOGO	0	0	0	1	0	0	0	0
FINLAND	1	23	0	0	0	0	0	0
INDONESIA	38	910	0	0	0	0	0	0
SOMALIA	892	16,276	0	0	0	0	0	0
Total	145,185	3,149,840	281,276	6,510,560	121,010	3,218,694	49	2,608

Source: APEDA / DGCIIS / Department of Commerce, Government of India

Government of India banned export of pulses in the last week of June 2006. Simultaneously duty-free imports were allowed. Ban continues till date. Exception to the ban was in case of imports under advance license scheme. In other words, for some time, importers could export. This window was closed during 2007.

Due to the ban, exports of lentils came to a standstill during Apr-Dec 2007, while imports surged due to exemption from customs duty. The following table sums up the imports and exports over the years.

Table 10.4 – Comparison of imports and exports of lentils

Year	Exports		Imports	
	Qty.	Realization	Qty.	Price
	Tons	Rs. / kg	Tons	Rs. / kg
2004-05	145,185	21.70	26,685	20.73
2005-06	281,276	23.15	36,114	18.96
2006-07	121,010	26.60	58,935	18.00
Apr-Dec 2007	49	52.73	210,442	21.22

As on date, India is essentially a lentil importing country. Given the increasing demand for lentils in the country and slow growth in production, it is unlikely that in near future India will become a net exporter of lentils.

10.3 Pigeon peas



Table 10.5 – Export of pigeon peas (tur) dried & shelled HS Code 07139010

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
NEPAL	6,024	48,543	3,214	75,481	564	16,197	110	2,575
SRI LANKA	3,461	71,510	1,119	26,534	932	23,175	77	2,343
U.S.A.	3,098	81,618	6,472	181,135	5,512	236,024	13	355
U.K.	829	19,857	1,167	30,871	1,726	65,436	9	212
AUSTRALIA	496	13,637	368	10,322	438	17,154	3	90
SAUDI ARABIA	1,326	32,310	1,322	33,913	1,852	71,677	1	44
SWITZERLAND	11	449	47	1,393	37	1,011	1	26
TAIWAN	0	0	0	0	0	0	1	20
NEWZEALAND	59	1,731	71	1,761	37	1,692	1	11
CANADA	548	13,751	851	22,157	852	35,728	0	14
QATAR	163	3,823	423	9,991	629	24,496	0	9
BAHRAIN	311	7,818	377	8,676	395	15,789	0	2
U.A.E.	3,322	86,424	4,604	115,438	6,717	252,195	0	0
KUWAIT	1,256	30,751	894	23,821	1,153	42,495	0	0
SINGAPORE	741	18,103	779	20,613	492	15,877	0	0
MALAYSIA	575	15,962	1,019	27,848	457	18,254	0	0
MAURITIUS	80	1,978	268	6,214	179	6,546	0	0
THAILAND	30	570	52	882	141	3,755	0	0
SOUTH AFRICA	62	1,415	17	606	95	2,365	0	0
PAKISTAN	244	5,314	131	3,439	83	2,534	0	0
KENYA	14	315	18	442	72	3,212	0	0
FRANCE	91	2,468	19	540	37	1,163	0	0
OMAN	77	2,014	95	2,549	36	1,704	0	0
JAPAN	79	2,794	106	4,055	33	830	0	0
FIJI	6	187	55	1,612	30	986	0	0
TRINIDAD AND TO	0	0	5	104	24	918	0	0
SPAIN	0	0	0	0	24	1,010	0	0
GERMANY	123	3,167	126	3,940	22	703	0	0

(Table 10.5 continued on next page)

Table 10.5 – Export of pigeon peas (tur) dried & shelled HS Code 07139010 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
GREECE	0	0	25	1,169	22	903	0	0
KOREA REPUBLIC	7	460	0	0	17	682	0	0
BENIN	0	0	1	18	10	429	0	0
TANZANIA	8	231	38	603	9	177	0	0
ZAMBIA	1	33	14	340	9	317	0	0
BRUNEI	80	2,016	52	1,628	8	248	0	0
MALDIVES	25	555	27	915	4	143	0	0
HONG KONG	79	1,420	21	408	4	202	0	0
SEYCHELLES	17	413	31	899	3	148	0	0
NETHERLANDS	10	343	30	745	2	87	0	0
GHANA	2	86	29	440	1	64	0	0
UGANDA	0	0	0	3	1	30	0	0
PHILIPPINES	19	605	6	259	1	23	0	0
NORWAY	5	166	5	82	1	20	0	0
GAMBIA	1	14	0	9	0	20	0	0
LIBERIA	1	28	1	51	0	10	0	0
BANGLADESH	1,468	21,041	653	12,770	0	0	0	0
PORTUGAL	0	0	223	8,034	0	0	0	0
ALGERIA	48	1,925	191	7,583	0	0	0	0
ITALY	92	3,325	125	4,117	0	0	0	0
INDONESIA	0	3	100	3,194	0	0	0	0
TURKEY	0	0	96	3,237	0	0	0	0
CHINA	0	0	32	763	0	0	0	0
PUERTO RICO	0	0	22	491	0	0	0	0
MAYNNMAR	0	0	18	545	0	0	0	0
LEBANON	0	0	10	163	0	0	0	0
NETHERLAND ANT	0	0	8	120	0	0	0	0
BELGIUM	5	155	2	58	0	0	0	0
CHINESE TAIPEI	6	176	2	26	0	0	0	0
MOZAMBIQUE	26	484	2	48	0	0	0	0
SUDAN	1	17	2	30	0	0	0	0
MALAGASAY REP	0	0	1	47	0	0	0	0
YAMEN ARAB REPU	0	0	1	10	0	0	0	0
REUNION	1	18	1	42	0	0	0	0
TOGO	0	0	1	15	0	0	0	0
MEXICO	0	0	1	7	0	0	0	0
CONGO	10	352	0	7	0	0	0	0
NIGER	0	6	0	5	0	0	0	0
GUINEA	0	11	0	3	0	0	0	0
BOTSWANA	0	6	0	0	0	0	0	0
DENMARK	0	2	0	0	0	0	0	0
GEORGIA	0	5	0	0	0	0	0	0
GRENADA	0	1	0	0	0	0	0	0
ISREAL	44	1,719	0	0	0	0	0	0
OTHER COUNTRY	19	536	0	0	0	0	0	0
Total	25,005	502,662	25,391	663,222	22,662	866,430	216	5,702
Source: APEDA / DGCIS / Department of Commerce, Government of India								

Table 10.6 – Comparison of imports and exports of pigeon peas (tur)

Year	Exports		Imports	
	Qty.	Realization	Qty.	Price
	Tons	Rs. / kg	Tons	Rs. / kg
2004-05	25,005	20.10	244,674	14.89
2005-06	25,391	26.12	228,835	15.84
2006-07	22,662	38.23	246,528	16.89
Apr-Dec 2007	216	26.38	218,813	21.91

As mentioned earlier, Government of India had banned export of pulses in the last week of June 2006. Simultaneously duty-free imports were allowed. Ban continues till date. Exception to the ban was in case of imports under advance license scheme. In other words, for some time, importers could export. This window was closed during 2007. Due to the ban, exports of pigeon peas came to a standstill during Apr-Dec 2007.



Even prior to the ban, imports of pigeon peas were significantly higher than exports. India is primarily an importer of pigeon peas. Exports are either to neighbouring countries or to countries with significant population of persons of Indian origin.

10.4 Other pulses

Table 10.7 – Export of other beans dried & shelled HS Code 07133990

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
ALGERIA	0	0	0	0	0	0	1,811	73,975
SRI LANKA	383	6,865	158	2,584	198	6,241	755	20,415
U.A.E.	156	3,326	254	7,596	328	10,960	634	22,822
PAKISTAN	0	0	239	5,719	257	7,269	587	18,813
EGYPT	0	0	0	0	44	937	528	19,335
U.K.	68	2,464	211	6,867	236	11,431	321	10,827
SPAIN	0	0	0	0	0	0	204	7,764
TURKEY	0	0	0	0	0	0	168	6,118
FRANCE	0	0	2	40	0	0	149	5,150
U.S.A.	39	895	358	9,170	426	19,024	124	3,648
ISRAEL	0	0	0	0	0	0	120	4,614
LEBANON	0	0	0	0	0	0	117	3,887
KUWAIT	97	1,886	175	4,775	343	11,880	83	3,482
QATAR	90	1,873	0	0	48	1,803	77	1,548
NETHERLAND	0	0	0	0	0	0	72	2,657
ITALY	0	0	0	0	0	0	70	2,734
KENYA	4	76	4	239	71	2,370	64	2,064

(Table 10.7 continued on next page)

Table 10.7 – Export of other beans dried & shelled HS Code 07133990 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
MALAYSIA	50	1,206	34	951	11	449	50	1,874
BAHRAIN	8	186	78	2,631	54	1,767	49	1,708
LEBYA	0	0	0	0	0	0	48	1,602
SINGAPORE	24	531	79	2,182	65	6,434	47	1,509
GREECE	0	0	0	0	0	0	42	1,746
NEPAL	1,306	12,949	1,125	16,698	207	4,318	36	428
JORDAN	0	0	20	413	0	0	29	934
CANADA	43	1,824	150	4,346	46	1,624	24	516
DJIBOUTI	0	0	0	0	21	644	20	539
SAUDI ARABIA	119	2,777	148	3,419	122	3,431	2	38
NORWAY	0	0	0	0	0	0	0	31
GERMANY	0	0	10	274	24	1,172	0	45
LIBERIA	0	0	0	0	0	0	0	12
MALDIVES	0	5	3	86	1	42	0	3
JAPAN	0	0	15	155	10	197	0	0
MAURITIUS	120	2,533	220	4,773	189	4,988	0	0
AUSTRALIA	6	126	54	1,392	156	5,796	0	0
IRAN	0	0	0	0	100	3,088	0	0
TUNISIA	0	0	0	0	74	2,815	0	0
OMAN	0	0	2	48	22	517	0	0
UKRAINE	0	0	0	0	19	403	0	0
PHILIPPINES	0	0	2	66	7	75	0	0
CYPRUS	0	0	0	0	5	215	0	0
DENMARK	0	0	0	0	3	99	0	0
SUDAN	0	0	2	41	1	63	0	0
CHILE	0	0	0	0	1	58	0	0
CONGO	0	0	0	0	1	15	0	0
HONG KONG	0	0	4	80	1	43	0	0
NEWZEALAND	11	237	25	804	0	0	0	0
BANGLADESH	321	4,995	272	5,828	0	0	0	0
SOUTH AFRICA	20	540	142	3,427	0	0	0	0
POLAND	0	0	10	159	0	0	0	0
SEYCHELLES	0	0	10	313	0	89	0	0
THAILAND	2	16	10	392	0	0	0	0
MOZAMBIQUE	0	0	7	194	0	0	0	0
SWEDEN	0	0	5	148	0	0	0	0
GAMBIA	1	14	1	16	0	0	0	0
RUSSIA	0	0	1	29	0	0	0	0
MALAWI	0	0	0	10	0	0	0	0
MEXICO	0	0	0	1	0	0	0	0
Total	2,867	45,323	3,827	85,862	3,091	110,257	6,232	220,838

Source: APEDA / DGCIS / Department of Commerce, Government of India

Unlike in case of other pulses, exports have surprisingly increased after the ban on export of pulses. It seems that there is a small window in the official notification banning exports, which has been utilized by exporters.

Exports of other beans are negligible in comparison to the imports as can be seen from the

following table:

Table 10.8 – Comparison of imports and exports of other beans dried & shelled

Year	Exports		Imports	
	Qty.	Realization	Qty.	Price
	Tons	Rs. / kg	Tons	Rs. / kg
2004-05	2,867	15.81	163,484	12.49
2005-06	3,827	22.44	173,521	18.23
2006-07	3,091	35.67	219,662	30.45
Apr-Dec 2007	6,232	35.44	107,465	23.71

Table 10.9 – Export of other dried & shelled leguminous vegetables, split HS Code 07139091

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U ARAB EMTS	1,073	24,619	2,482	59,643	4,916	125,182	24	938
NEPAL	593	11,951	966	19,460	1,242	25,357	1	39
U S A	2,154	57,143	2,097	76,589	337	11,634		
U K	167	3,423	249	5,487	317	9,027		
PAKISTAN IR	148	4,899	100	3,535	295	7,861		
SAUDI ARAB	169	3,648	322	7,938	154	3,380		
CANADA	61	1,601	145	4,307	86	3,535		
TURKEY					48	1,688		
KUWAIT	50	1,145	244	5,988	45	1,341		
SRI LANKA DSR	2,371	55,096	218	4,530	30	389	380	17,037
JAPAN					20	1,944		
QATAR	59	1,452	183	4,360	16	501		
NEW ZEALAND			4	72	12	338		
SEYCHELLES	34	822	12	409	10	361		
SOUTH AFRICA	6	172	3	107	6	199		
KENYA	5	151	3	89	6	323		
AUSTRALIA	31	689	3	50	5	139		
GERMANY	13	192	104	1,816	1	51		
KOREA RP					1	26		
BELGIUM	0	5	1	17	1	55		
MALDIVES	19	393	28	648	1	50	0	11
BANGLADESH PR	14	397	428	8,334				
BAHARAIN IS	30	614	14	333				
TAIWAN	2	27	12	421				
CHINA P RP	140	5,075	1,923	83,361				

(Table 10.9 continued on next page)



Table 10.9 – Export of other dried & shelled leguminous vegetables, split HS Code 07139091 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
FINLAND	1	15						
FIJI IS			5	173				
FRANCE	5	165	22	534				
GAMBIA	0	8	0	11				
GEORGIA	0	4						
GREECE	6	254						
HONG KONG	4	121	14	323				
INDONESIA	26	1,063						
ISRAEL			22	549				
LIBERIA							0	23
MALAYSIA	27	1,113	85	2,076				
MAURITIUS			10	197				
NETHERLAND			22	1,032				
OMAN	20	506	1	21				
PHILIPPINES			2	67				
PORTUGAL			1	14	3	100		
SINGAPORE	49	1,182	65	1,581				
SUDAN			24	659				
TANZANIA REP	0	0						
TOGO	5	69						
UGANDA			2	54				
VIETNAM S REP			0	1				
YEMEN REPUBLIC			68	1,184				
ZAMBIA			1	21				
	7,284	178,014	9,883	295,991	7,552	193,481	406	18,048

Source: APEDA / DGCIS / Department of Commerce, Government of India

Effect of ban on exports is clearly visible in the above figures.

Imports of split, shelled and dried leguminous vegetables is negligibly small. During 2006-07, imports under this HS Code were less than 4 tons. India imports whole pulses. Processing of

whole pulses to get shelled and split pulses is done in Indian mills.

**Table 10.10 – Export of other dried & shelled leguminous vegetables, other than split
HS Code 07139099**

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
MAYNMAR	0	0	0	0	99	2,634	240	4,828
LIBYA	0	0	0	0	0	0	96	3,050
NEPAL	13,172	230,094	11,083	225,316	4,146	74,889	85	2,743
U.S.A.	6,971	173,872	7,660	226,030	6,624	273,437	58	1,925
U.A.E.	9,826	249,968	7,183	192,464	6,655	243,291	49	895
U.K.	6,097	139,788	5,744	157,107	3,307	120,354	43	2,116
MALAYSIA	2,299	55,849	1,819	53,854	346	14,500	38	1,261
AUSTRALIA	302	8,254	565	16,536	446	20,719	37	812
SRI LANKA	9,292	153,018	6,203	150,886	2,218	69,098	35	716
SAUDI ARABIA	6,739	169,905	4,089	122,635	2,956	103,869	28	1,136
BAHRAIN	1,276	30,927	2,122	53,175	544	22,121	23	485
KUWAIT	3,599	91,004	4,105	115,954	2,744	87,287	22	801
SOUTH AFRICA	299	6,070	326	7,626	251	7,141	16	699
ISREAL	87	3,263	138	5,175	1	54	15	410
SINGAPORE	1,021	24,393	800	24,343	347	13,002	14	232
NETHERLANDS	68	1,858	104	2,850	26	1,346	13	146
JAPAN	136	5,243	196	8,140	46	2,297	8	129
AFGHANISTAN	0	0	5	111	0	0	8	116
CANADA	2,153	53,095	2,193	61,885	1,091	48,680	2	59
ST. LUCIA	0	0	0	0	0	0	2	73
SEYCHELLES	88	1,988	100	2,177	20	1,187	2	65
KENYA	69	1,720	86	1,764	19	763	2	99
RUSSIA	21	162	0	0	1	25	2	70
BRUNEI	8	262	44	1,095	7	330	2	59
GERMANY	93	2,946	179	5,496	216	8,072	1	17
MALDIVES	52	1,299	62	1,401	6	229	1	45
BOTSWANA	2	48	2	107	0	0	1	23
NEWZEALAND	163	3,845	229	5,558	166	5,563	1	16
LIBERIA	2	41	8	180	0	1	0	11
OMAN	574	13,253	369	9,186	127	3,672	0	18
SWITZERLAND	66	2,091	59	2,322	21	262	0	7
HONG KONG	45	637	94	2,275	64	2,313	0	13
GHANA	22	325	1	29	0	0	0	2
UZBEKISTAN	0	0	0	0	0	0	0	1
PAKISTAN	3,640	78,008	1,366	33,750	728	23,030	0	0
MAURITIUS	276	6,817	339	8,509	369	11,169	0	0
QATAR	815	19,499	794	22,544	314	11,850	0	0
TUNISIA	0	0	375	14,395	239	9,182	0	0
EGYPT	1,132	25,258	1,478	42,772	238	8,816	0	0
FRANCE	404	16,190	543	20,622	226	6,548	0	0
LEBANON	123	4,678	513	18,968	168	5,677	0	0

(Table 10.10 continued on next page)

**Table 10.10 – Export of other dried & shelled leguminous vegetables, other than split
HS Code 07139099 (Continued)**

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
GREECE	51	1,418	151	5,973	103	4,233	0	0
ITALY	593	24,675	394	14,581	99	4,489	0	0
BANGLADESH	3,040	45,050	3,155	66,015	67	1,414	0	0
YAMEN ARAB REPU	145	2,990	169	3,927	46	1,094	0	0
TANZANIA	42	867	46	880	27	885	0	0
NIGERIA	0	3	5	170	26	1,272	0	0
THAILAND	8	255	40	674	26	726	0	0
SPAIN	286	10,222	941	37,440	24	979	0	0
BARBODOS	0	0	0	0	22	913	0	0
IRELAND	0	0	9	57	19	908	0	0
PHILIPPINES	25	657	114	2,641	19	609	0	0
CHINA	0	0	75	2,879	17	565	0	0
INDONESIA	101	3,951	59	2,713	14	541	0	0
BENIN	55	701	20	358	9	272	0	0
MOZAMBIQUE	6	92	2,191	24,536	7	138	0	0
MALAGASAY REP	11	243	1	14	3	89	0	0
UGANDA	0	0	4	68	2	69	0	0
CONGO	9	300	35	496	2	109	0	0
ZAMBIA	34	919	11	351	2	50	0	0
UKRAINE	0	0	0	0	1	65	0	0
JORDAN	37	1,333	51	1,389	1	12	0	0
PORTUGAL	11	217	566	23,820	1	24	0	0
BELGIUM	83	2,225	25	402	1	38	0	0
REUNION	1	33	3	90	1	16	0	0
ARGENTINA	0	0	0	0	1	22	0	0
JAMAICA	0	0	0	20	0	38	0	0
CYPRUS	0	0	0	0	0	9	0	0
FIJI	61	1,354	32	993	0	7	0	0
NIGER	0	15	0	2	0	1	0	0
ALGERIA	1,098	43,190	2,785	109,048	0	0	0	0
SUDAN	2	46	2,362	52,303	0	0	0	0
TRINIDAD AND TO	12	354	170	6,406	0	0	0	0
TURKEY	250	4,648	140	5,268	0	0	0	0
COLOMBIA	0	0	95	3,999	0	0	0	0
DENMARK	12	138	50	1,007	0	0	0	0
KOREA REPUBLIC	194	6,447	22	540	0	0	0	0
TOGO	1	16	20	463	0	0	0	0

(Table 10.10 continued on next page)

**Table 10.10 – Export of other dried & shelled leguminous vegetables, other than split
HS Code 07139099 (Continued)**

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
SWEDEN	0	0	6	199	0	0	0	0
DJIBOUTI	0	0	4	43	0	0	0	0
BELIZE	0	0	4	167	0	0	0	0
NORWAY	0	0	3	115	0	0	0	0
CHINESE TAIPEI	2	51	3	72	0	0	0	0
GAMBIA	1	29	2	65	0	0	0	0
IRAN	0	0	2	65	0	0	0	0
PAPUA NEW GUINEA	1	13	1	16	0	0	0	0
GUINEA	0	0	1	31	0	0	0	0
MALAWI	1	34	0	8	0	0	0	0
ETHIOPIA	0	3	0	5	0	0	0	0
COMOROS	0	0	0	0	0	0	0	0
PANAMA	0	0	0	0	0	0	0	0
CHAD	1	21	0	0	0	0	0	0
CZECH REP.	2	67	0	0	0	0	0	0
GEORGIA	0	4	0	0	0	0	0	0
KAZAKISTAN	7	910	0	0	0	0	0	0
MAURITANIA	0	3	0	0	0	0	0	0
NAMIBIA	1	22	0	0	0	0	0	0
OTHER COUNTRY	1	41	0	0	0	0	0	0
POLAND	0	278	0	0	0	0	0	0
SIERRA LEONE	0	1	0	0	0	0	0	0
ST. KITTS NEVIS	1	18	0	0	0	0	0	0
SURINAM	0	0	0	0	0	0	0	0
Total	77,117	1,729,521	74,742	1,987,548	35,317	1,222,996	844	23,078

Source: APEDA / DGCIS / Department of Commerce, Government of India

Effect of ban on exports is clearly visible in the above figures.

The following table compares imports and exports of other dried & shelled whole leguminous vegetables.

Table 10.11 – Comparison of imports and exports of other dried & shelled leguminous vegetables, other than split

Year	Exports		Imports	
	Qty.	Realization	Qty.	Price
	Tons	Rs. / kg	Tons	Rs. / kg
2004-05	77,117	22.43	154,318	13.47
2005-06	74,742	26.59	207,144	20.12
2006-07	35,317	34.63	45,418	30.02
Apr-Dec 2007	844	27.33	23,787	26.04

While the fall in exports is understandable, the reduction in imports seems strange. It is likely that till 2005-06, lentils and pigeon peas were imported under this HS Code.

11. Export of Juices, Jams, Jellies, pulps and slices

11.1 Mangoes sliced dried

Table 11.1 – Export of mangoes sliced dried HS Code 08045030

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
BANGLADESH	2,387	27,286	321	3,227	47	496	4,069	36,789
SAUDI ARABIA	582	29,720	538	16,734	1,002	36,955	384	11,987
U.K.	364	12,978	289	13,575	268	11,256	117	5,293
NETHERLANDS	338	17,976	897	40,096	531	20,496	90	3,336
JAPAN	17	1,115	158	3,835	62	4,911	88	10,518
YAMEN ARAB REP	0	0	0	0	240	4,954	62	1,385
U.A.E.	33	881	123	3,445	113	2,014	34	1,815
U.S.A.	43	2,431	49	1,876	76	2,466	19	582
NEPAL	0	0	3	77	5	175	15	85
GERMANY	147	7,459	326	11,358	246	10,733	10	650
JORDAN	0	0	0	0	20	891	8	301
KUWAIT	3	90	21	1,041	3	386	4	119
CANADA	20	691	86	4,287	0	0	3	118
SINGAPORE	0	0	0	0	11	543	3	244
FRANCE	0	0	0	0	0	0	2	105
UNSPECIFIED	0	0	0	0	0	0	2	100
SWITZERLAND	1	17	86	4,041	24	1,277	1	46
KENYA	0	0	0	0	0	0	0	4
HONG KONG	1	20	0	0	3	209	0	4
BAHRAIN	0	0	0	0	2	613	0	4
THAILAND	0	0	0	0	0	0	0	2
BELGIUM	22	1,112	67	2,933	89	3,925	0	2
SPAIN	0	0	17	425	0	0	0	0
LEBANON	0	0	0	0	94	1,748	0	0
ITALY	0	0	0	0	46	2,501	0	0
MALAYSIA	0	0	0	0	29	675	0	0
OMAN	0	0	10	465	21	407	0	0
ISREAL	25	477	10	271	20	182	0	0
FINLAND	0	0	0	0	20	1,222	0	0
SOUTH AFRICA	0	0	0	0	10	190	0	0
PHILIPPINES	0	0	0	0	4	22	0	0
NEWZEALAND	1	31	0	0	2	74	0	0
OTHER COUNTRY	0	0	0	0	1	67	0	0
QATAR	22	437	0	0	1	89	0	0
MALDIVES	0	0	0	0	1	18	0	0
AUSTRALIA	0	0	23	932	1	11	0	0
MAURITIUS	0	0	0	0	0	8	0	0
PORTUGAL	0	0	10	256	0	0	0	0
BOTSWANA	0	4	0	0	0	0	0	0
TOGO	0	4	0	0	0	0	0	0
Total	4,008	102,731	3,036	108,875	2,991	109,513	4,910	73,487

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from export of sliced & dried mangoes were Rs. 14.97 / kg for Apr-Dec

2007, Rs. 36.62 / kg for 2006-07. Rs. 35.87 / kg for 2005-06 and Rs. 25.63 / kg for 2004-05.

11.2 Mango slices in brine

Table 11.2 – Export of mango slices in brine HS Code 08129010

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
SAUDI ARABIA	2,977	109,482	1,927	64,740	2,761	94,092	2,624	73,518
U.K.	1,529	51,141	436	13,065	762	34,977	608	29,285
NETHERLANDS	421	16,355	48	1,280	438	15,588	545	29,329
U.A.E.	340	9,346	276	9,418	247	7,810	69	1,703
JAPAN	88	6,687	100	5,855	207	13,145	60	4,153
LEBANON	0	0	0	0	71	2,314	44	1,188
MAURITIUS	0	0	7	332	0	0	43	1,801
U.S.A.	203	12,199	162	7,874	350	20,084	32	693
AUSTRALIA	26	1,269	23	569	0	0	19	866
FRANCE	93	3,966	9	561	39	1,588	8	434
ISREAL	8	191	7	171	7	204	7	120
QATAR	0	0	10	106	0	0	1	32
SINGAPORE	1	13	0	0	6	176	0	21
EGYPT	0	0	0	0	0	0	0	20
KUWAIT	205	5,540	17	583	1	19	0	18
YAMEN ARAB REP	998	20,444	80	2,203	0	0	0	4
JORDAN	0	0	42	1,544	0	0	0	4
SOUTH AFRICA	32	218	0	0	0	0	0	4
GERMANY	60	2,203	23	790	131	7,250	0	0
ITALY	0	0	0	0	46	2,224	0	0
CANADA	18	1,483	63	986	37	1,912	0	0
MALAYSIA	1	64	0	1	30	1,195	0	0
POLAND	0	0	0	0	23	1,059	0	0
OMAN	0	0	3	25	22	779	0	0
SWITZERLAND	0	0	0	0	22	1,088	0	0
NEPAL	0	0	1	35	16	793	0	0
TANZANIA	0	0	0	0	1	145	0	0
GHANA	0	0	0	0	0	5	0	0
HONG KONG	0	13	0	0	0	0	0	0
UGANDA	0	0	40	1,019	0	0	0	0
BAHRAIN	19	278	13	179	0	0	0	0
NEWZEALAND	0	0	1	20	0	0	0	0
KOREA REP	1	24	0	0	0	0	0	0
SRI LANKA	11	157	0	0	0	0	0	0
Total	7,031	241,073	3,287	111,356	5,216	206,446	4,062	143,193

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from export of mango slices in brine were Rs. 35.25 / kg for Apr-Dec 2007, Rs. 39.58 / kg for 2006-07. Rs. 33.88 / kg for 2005-06 and Rs. 34.29 / kg for 2004-05.

11.3 Mango pulp

Table 11.3 – Export of mango pulp HS Code 08045040

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
SAUDI ARABIA	31,205	940,233	45,033	1,023,760	48,421	1,351,662	36,389	903,383
YAMEN ARAB REPU	14,654	317,377	16,616	316,054	19,612	432,037	19,217	363,273
NETHERLANDS	7,240	351,001	9,292	393,807	19,191	843,978	16,329	668,268
U.A.E.	8,808	267,655	13,297	317,780	14,135	400,954	11,238	294,421
KUWAIT	3,998	144,801	6,840	165,342	7,082	213,282	6,089	151,362
U.K.	2,901	126,557	4,603	157,731	5,411	203,408	4,987	195,700
JAPAN	1,995	128,708	2,459	159,398	3,950	261,503	4,801	308,910
U.S.A.	2,541	111,522	2,934	118,234	3,651	151,625	3,134	146,208
NEPAL	377	11,173	2,171	47,770	1,368	37,098	3,087	77,283
RUSSIA	1,302	46,291	2,882	88,768	3,299	106,868	2,730	88,393
FRANCE	1,485	77,827	1,603	73,694	1,899	97,111	2,236	122,320
LEBANON	2,403	61,091	3,301	75,512	2,564	66,072	2,091	45,411
EGYPT	0	0	1,412	40,733	1,583	46,020	1,711	38,034
UGANDA	101	4,862	428	13,005	703	24,443	1,696	55,533
GERMANY	1,311	59,777	1,663	65,063	1,973	85,421	1,603	71,860
CANADA	1,431	51,353	2,305	87,265	2,423	91,295	1,354	59,774
SUDAN	3,025	100,152	2,858	72,548	3,648	105,861	1,301	32,956
LIBYAN	0	0	109	4,691	562	25,438	900	31,569
OMAN	2,147	59,587	3,357	82,292	2,345	54,921	872	23,505
MALAYSIA	1,073	26,722	1,227	25,439	995	22,485	767	15,928
UKRAINE	490	22,462	808	31,086	1,471	65,688	730	29,987
JORDAN	694	20,351	1,491	34,833	1,071	26,221	669	14,740
SYRIAN ARAB REP	42	1,152	244	5,403	858	16,928	513	8,869
IRAN	268	12,782	731	27,503	517	24,462	499	25,174
ISREAL	0	0	408	15,633	655	34,722	484	15,064
SINGAPORE	676	16,084	1,001	21,261	615	16,313	480	11,275
TAIWAN	0	0	0	0	0	0	460	18,379
QATAR	207	6,434	273	7,085	217	6,780	431	10,449
AUSTRALIA	337	15,410	225	8,321	360	13,931	426	14,270
BAHRAIN	733	20,823	508	11,895	822	22,805	417	10,285
SPAIN	0	0	0	0	275	8,161	344	8,240
BANGLADESH	1,336	25,189	1,144	24,539	481	9,837	338	6,330
ALGERIA	277	17,059	170	8,978	512	25,414	311	13,248
CHINA	0	0	23	1,187	296	11,630	265	14,069
FINLAND	459	25,002	361	16,460	605	30,180	201	8,396
PORTUGAL	235	10,587	422	19,569	409	19,164	192	9,051
SRI LANKA	149	4,341	191	5,057	162	4,847	165	3,887
ARMENIA	76	2,332	82	2,014	172	5,158	123	2,887
BELGIUM	95	5,317	200	8,319	129	5,747	99	3,429
GEORGIA	0	0	42	1,000	0	0	82	1,933
SWEDEN	17	1,118	37	1,660	0	0	76	2,915
NIGERIA	20	442	0	0	183	8,061	74	3,107

(Table 11.3 continued on next page)

Table 11.3 – Export of mango pulp HS Code 08045040 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
NEWZEALAND	143	4,676	70	2,735	113	4,900	65	1,955
KENYA	95	3,318	45	1,015	21	857	61	1,168
HONG KONG	7	333	41	679	15	686	52	1,370
SLOVAK REP	0	0	0	0	0	0	41	1,142
CYPRUS	35	1,286	18	727	52	1,700	34	855
DENMARK	256	9,250	450	13,508	413	12,027	34	1,277
TURKEY	0	0	0	0	90	4,130	32	1,245
AUSTRIA	8	529	17	536	55	1,531	31	936
MAURITIUS	17	1,008	61	1,498	46	1,960	27	737
SOUTH AFRICA	0	0	19	308	217	6,017	24	549
SWITZERLAND	105	4,676	0	0	14	729	22	1,143
VIETNAM	270	6,180	60	1,429	44	1,391	21	260
CZECH REP.	0	0	63	3,173	126	2,783	21	737
INDONESIA	84	3,726	49	2,821	90	3,779	21	947
DJIBOUTI	10	138	5	167	18	505	17	431
BENIN	0	0	0	0	0	0	12	91
KOREA REPUBLIC	162	4,668	39	1,661	79	3,503	9	266
MALDIVES	1	18	26	446	7	179	4	75
BOTSWANA	0	0	0	0	0	0	2	111
PHILIPPINES	0	0	1	20	0	0	1	32
NORWAY	18	942	0	0	0	0	1	59
COTE D'IVOIRE	0	0	0	0	0	0	1	68
MOZAMBIQUE	0	0	0	0	0	0	1	32
SEYCHELLES	102	2,721	120	3,196	60	1,603	0	11
ITALY	0	1	0	0	0	7	0	0
CHINESE TAIPEI	0	0	273	10,668	384	15,874	0	0
FRENCH POLYNES	68	3,745	17	880	199	8,572	0	0
MOROCCO	110	6,380	0	0	68	3,047	0	0
MARTINIQUE	0	0	36	1,982	36	2,109	0	0
COLOMBIA	0	0	0	0	19	774	0	0
BARBODOS	68	4,740	52	3,018	17	924	0	0
THAILAND	0	0	10	534	17	797	0	0
TANZANIA	0	7	244	5,319	13	332	0	0
REUNION	0	0	1	44	1	32	0	0
NETHERLAND ANT	0	0	56	2,295	0	0	0	0
OTHER COUNTRY	187	5,216	53	1,450	0	0	0	0
TOGO	0	0	20	847	0	0	0	0
TUNISIA	0	0	11	580	0	0	0	0
IRELAND	0	0	4	144	0	0	0	0
MACAO	0	0	1	21	0	0	0	0
HUNGARY	0	0	1	18	0	0	0	0
KOREA DEM. REP.	1	62	0	0	0	0	0	0
Total	95,857	3,157,194	134,613	3,642,412	156,836	5,058,279	130,443	3,945,570
Source: APEDA / DGCIS / Department of Commerce, Government of India								

Average realizations from export of mango pulp were Rs. 30.25 / kg for Apr-Dec 2007, Rs. 32.25 / kg for 2006-07. Rs. 27.06 / kg for 2005-06 and Rs. 32.94 / kg for 2004-05.



Table 11.4 – Typical physical characteristics of mango pulp

Product	0 Brix at 20°C. [Refractometer]	Consistency *	pH	Colour	Flavor	Taste
FarmFresh Aseptic Alphonso Mango Puree	16 Minimum	5 - 15	3.5 - 4.3	Characteristic Ripe Alphonso Mango Colour	Typical Ripe Alphonso Mango Flavor	Characteristic Ripe Alphonso Mango Taste
FarmFresh Aseptic Totapuri Mango Puree	14 Minimum	5 - 15	3.5 - 4.3	Characteristic Ripe Totapuri Mango Colour	Typical Ripe Totapuri Mango flavor	Characteristic Ripe Totapuri Mango Taste
FarmFresh Aseptic Totapuri Mango Puree Concentrated	28 Minimum	< 10	4.0	Characteristic Ripe Totapuri Mango Colour	Typical Ripe Totapuri Mango flavor	Characteristic Ripe Totapuri Mango Taste
* (Bostwick Cm/30 Sec) at 25 ± 2°C						

(Source: Jain Irrigation Systems Ltd. <http://www.jains.com/fruit/mango.htm>)

Totapuri variety of mango is most commonly used for making pulp. Alphonso is a premium variety and its pulp commands a premium due to its unique flavor and taste. Kesar is considered a poor cousin of Alphonso.

Totapuri is produced mainly in South India, while Alphonso and Kesar are products of coastal districts of Maharashtra and Gujarat. Contiguous areas of Chittoor district in Andhra Pradesh, Dharmapuri and Krishnagiri in Tamil Nadu account for a major share (by one estimate – more than 90 per cent) of India's export of processed totapuri mango pulp.

India is estimated to control almost two thirds of the global market for mango puree / pulp. However, domestic consumption is rising with increasing popularity of mango-based beverages. This is putting pressure on exports.

11.4 Jam, jellies etc. of mangoes

Table 11.5 – Export of jam, jellies etc. of mangoes HS Code 20079910

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
NETHERLANDS	1,743	86,685	5,181	222,278	6,962	312,724	7,013	320,562
SAUDI ARABIA	235	8,755	1,648	39,565	3,126	121,538	4,465	162,393
JAPAN	235	13,304	1,741	106,520	1,538	100,714	2,620	161,780
U.S.A.	234	9,482	886	37,759	1,013	43,689	2,324	95,926
IRAN	140	8,973	35	1,919	395	20,413	1,046	54,072
UKRAINE	36	1,368	290	12,290	431	21,903	754	31,122
FRANCE	175	8,144	195	9,206	733	35,986	614	26,566
RUSSIA	336	13,406	263	6,660	169	6,818	595	23,908
U.K.	925	31,870	2,924	104,146	2,571	107,191	435	22,008
CHINA	0	0	76	3,906	150	8,068	425	16,654
ALGERIA	18	1,443	0	0	17	823	387	16,226
CANADA	136	7,051	503	20,551	483	21,501	383	16,190
KUWAIT	123	4,048	532	19,462	330	11,163	289	9,547
U.A.E.	530	17,626	1,327	39,963	268	11,348	257	10,664
KOREA REPUBLIC	4	445	111	4,654	34	1,372	230	7,138
GERMANY	77	3,996	289	11,728	304	9,157	183	7,472
AUSTRALIA	16	755	115	4,611	66	2,817	183	8,399
JORDAN	31	1,427	215	5,613	118	3,450	176	4,812
YAMEN AR REP	0	0	1,022	24,586	727	27,323	132	3,896
FRENCH POLYN	0	0	47	2,055	0	0	117	5,482
FINLAND	19	1,070	283	14,688	56	2,661	117	6,432
QATAR	37	1,289	98	2,681	210	7,301	115	4,567
OMAN	38	979	76	3,091	109	3,504	95	3,365
PORTUGAL	6	106	97	5,362	201	8,681	93	3,614
MALAYSIA	14	821	214	4,688	113	3,392	78	2,084
LIBYA	0	0	0	0	0	0	72	3,088
BELGIUM	0	0	69	2,622	53	2,782	64	3,511
SOUTH AFRICA	1	54	2	77	1	31	56	2,075
EL SALVADOR	0	0	0	0	0	0	55	2,277
BARBODOS	0	0	68	3,841	0	0	54	3,075
BAHRAIN	10	429	65	1,542	58	2,471	51	2,326
TANZANIA	12	590	0	0	0	4	51	1,932
UGANDA	0	0	14	434	10	519	41	902
TURKEY	0	0	0	0	0	0	36	1,479
DENMARK	1	50	241	8,016	0	0	34	1,789
BHUTAN	0	0	15	1,573	0	0	30	1,858
NEWZEALAND	0	0	41	1,477	3	182	29	1,537
COLOMBIA	0	0	0	0	0	0	24	1,628
SINGAPORE	143	4,035	22	791	64	2,469	24	983
IRAQ	0	0	0	0	0	0	20	719
TAIWAN	0	0	0	0	0	0	20	976
EQUADOR	0	0	0	0	0	0	18	759
SRI LANKA	0	2	19	720	18	872	18	843

(Table 11.5 continued on next page)

Table 11.5 – Export of jam, jellies etc. of mangoes HS Code 20079910 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
ANGOLA	0	0	0	0	0	0	18	726
CYPRUS	0	0	0	0	0	0	18	783
GEORGIA	0	0	0	0	0	0	18	737
ARMENIA	0	0	15	498	18	828	17	463
NEPAL	38	1,327	2	62	54	1,717	16	309
HONG KONG	35	1,985	7	295	2	125	15	704
MAURITIUS	0	0	0	0	16	437	10	320
INDONESIA	0	0	44	1,916	9	448	8	410
LEBANON	60	2,607	0	0	3	138	3	110
SYRIAN AR REP	0	0	0	0	224	10,162	0	0
ITALY	21	1,153	21	935	151	7,896	0	0
SPAIN	0	0	0	0	121	3,830	0	0
SWEDEN	118	5,060	191	8,507	85	3,889	0	0
SWITZERLAND	4	173	2	42	23	1,263	0	0
IRELAND	0	0	6	203	17	724	0	0
KOREA D. REP.	0	0	0	0	11	383	0	0
THAILAND	0	0	5	231	11	462	0	0
CHINESE TAIPEI	39	1,806	3	147	10	642	0	0
ISREAL	0	0	10	240	1	48	0	0
ICELAND	0	0	0	0	1	97	0	0
BENIN	0	0	0	0	0	10	0	0
BYELORUSSIA	0	0	0	0	0	11	0	0
ST. KITTS NEVIS	0	5	0	18	0	1	0	0
ZAMBIA	0	0	0	0	0	1	0	0
SUDAN	0	0	126	2,601	0	0	0	0
CZECH REP.	0	0	42	1,936	0	0	0	0
KENYA	0	0	30	1,574	0	0	0	0
VIETNAM	0	0	27	686	0	0	0	0
FIJI	0	0	21	692	0	0	0	0
GREECE	0	0	10	217	0	0	0	0
PHILIPPINES	2	96	6	125	0	0	0	0
BRAZIL	0	0	1	65	0	0	0	0
LIBERIA	0	0	0	6	0	0	0	0
MALAGASAY REP	0	0	0	5	0	0	0	0
MALDIVES	0	2	0	19	0	0	0	0
SURINAM	0	0	0	4	0	0	0	0
ARGENTINA	18	765	0	0	0	0	0	0
BANGLADESH	22	692	0	0	0	0	0	0
CONGO	2	24	0	0	0	0	0	0
EGYPT	104	3,156	0	0	0	0	0	0
TRINIDAD AND TO	0	19	0	0	0	0	0	0
Total	5,736	247,074	19,294	750,099	21,086	935,978	23,947	1,061,199

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from export of jams, jellies etc. of mangoes were Rs. 44.32 / kg for Apr-Dec 2007, Rs. 44.39 / kg for 2006-07. Rs. 38.88 / kg for 2005-06 and Rs. 43.07 / kg for 2004-05.

11.5 Jam, jellies etc. of other fruits

Table 11.6 – Export of jam, jellies etc. of other fruits HS Code 20079990

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
CANADA	86	2,113	679	22,242	672	16,585	915	18,299
U.A.E.	370	11,716	808	27,758	571	24,720	583	18,624
IRAN	18	729	0	0	35	951	475	11,637
NEPAL	143	5,658	132	4,759	43	2,122	430	15,929
U.S.A.	362	14,723	1,005	35,112	936	36,174	428	17,122
NETHERLANDS	208	6,976	263	9,056	436	18,415	270	19,118
U.K.	493	19,804	804	27,439	611	26,875	195	7,364
KUWAIT	92	2,730	188	6,017	71	3,582	145	3,822
SAUDI ARABIA	469	13,648	350	11,625	267	11,111	144	4,729
AUSTRALIA	131	5,335	87	2,900	51	1,867	83	3,016
GERMANY	34	1,741	51	2,622	58	2,976	52	2,054
BAHRAIN	35	1,157	46	1,614	31	1,023	33	1,018
SINGAPORE	122	5,907	74	3,593	43	2,670	32	1,354
MALAYSIA	459	11,969	41	1,182	42	735	27	871
OMAN	45	1,633	164	6,187	33	2,030	25	1,245
CHINA P RP	0	0	0	0	0	0	23	621
QATAR	3	96	94	3,429	130	3,894	23	825
RUSSIA	0	0	0	19	35	920	20	436
HONG KONG	30	1,301	14	484	10	752	20	718
KAZAKISTAN	0	0	0	0	2	171	20	550
YAMEN ARAB REPU	22	862	1	39	0	0	20	502
NEWZEALAND	14	501	71	2,511	43	1,279	19	812
PUERTO RICO	0	0	10	147	0	0	17	399
ISRAEL	0	0	11	328	0	0	10	249
FRENCH POLYN	0	0	4	100	0	0	9	204
FRANCE	0	50	4	269	13	606	7	969
JAPAN	3	128	169	7,326	25	1,098	4	218
TANZANIA	10	245	4	170	4	192	3	172
URUGUAY	0	0	0	0	0	0	3	388
ITALY	6	520	1	97	4	230	2	253
MALI	0	0	0	0	0	0	2	94
MALDIVES	21	867	1	121	1	24	2	51
IRELAND	0	0	8	367	5	237	2	83
MAURITIUS	6	220	15	1,385	2	61	1	64
CZECH REP.	0	0	1	117	5	572	1	43
AUSTRIA	0	0	2	47	0	0	1	63
SOUTH AFRICA	21	694	22	700	14	560	1	13
BELGIUM	43	1,621	1	106	3	248	0	22
SRI LANKA	65	1,745	1	21	7	321	0	6
SWEDEN	31	1,169	73	3,014	0	0	0	10
SWITZERLAND	1	38	5	156	5	224	0	5
JORDAN	0	0	57	2,020	0	12	0	6
NIGERIA	3	152	0	0	0	4	0	3

(Table 11.6 continued on next page)

Table 11.6 – Export of jam, jellies etc. of other fruits HS Code 20079990 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
BENIN	0	0	23	857	1	59	0	3
BAHAMAS	0	0	0	0	13	959	0	3
TOGO	0	0	0	0	0	5	0	2
UKRAINE	0	0	0	0	127	3,196	0	0
FINLAND	0	0	2	196	18	822	0	0
KOREA REP	0	0	2	97	15	543	0	0
ALGERIA	0	0	0	0	11	667	0	0
PAKISTAN	0	0	0	0	10	462	0	0
SEYCHELLES	0	0	0	0	10	427	0	0
THAILAND	0	0	0	0	4	190	0	0
MOZAMBIQUE	0	0	0	0	3	256	0	0
SPAIN	5	383	20	810	3	166	0	0
EGYPT	0	0	0	0	3	176	0	0
PHILIPPINES	0	0	0	19	2	101	0	0
ETHIOPIA	0	0	6	170	2	89	0	0
BOTSWANA	4	242	5	479	1	55	0	0
WESTERN SAMOA	0	0	0	0	0	19	0	0
GAMBIA	0	0	1	41	0	13	0	0
BYELORUSSIA	0	0	0	0	0	16	0	0
NORWAY	23	1,818	6	555	0	14	0	0
CHAD	0	0	0	0	0	3	0	0
KENYA	16	810	0	15	0	4	0	0
SYRIAN AR REP	0	0	88	1,836	0	0	0	0
VIETNAM	0	0	39	1,936	0	0	0	0
LEBANON	0	0	22	611	0	0	0	0
ARMENIA	0	0	18	809	0	0	0	0
DENMARK	0	0	10	320	0	0	0	0
BRAZIL	0	0	3	113	0	0	0	0
REUNION	0	0	3	151	0	0	0	0
AFGHANISTAN	0	0	2	69	0	0	0	0
LIBERIA	0	0	0	6	0	0	0	0
UGANDA	8	70	0	3	0	0	0	0
BELIZE	2	50	0	0	0	0	0	0
BRUNEI	2	39	0	0	0	0	0	0
CHILE	20	626	0	0	0	0	0	0
FIJI	22	770	0	0	0	0	0	0
POLAND	2	89	0	0	0	0	0	0
PORTUGAL	0	6	0	0	0	0	0	0
ZAMBIA	0	13	0	0	0	0	0	0
Total	3,451	120,963	5,512	194,171	4,432	171,482	4,048	133,989

Source: APEDA / DGCIS / Department of Commerce, Government of India

Average realizations from export of jams, jellies etc. of other fruits were Rs. 33.10 / kg for Apr-Dec 2007, Rs. 38.69 / kg for 2006-07. Rs. 35.23 / kg for 2005-06 and Rs. 35.05 / kg for 2004-05.

Export of jams, jellies etc. of other fruits is much lower compared to export of mango-based jams, jellies etc. Obviously, India's advantage is in mango and not in any other fruit.

11.6 Other fruit juices

Table 11.7 – Export of juices of other fruits HS Code 20098090

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
U.S.A.	424	16,945	391	15,487	403	54,642	686	44,088
U.K.	513	16,903	448	23,086	667	41,176	396	16,266
MALAYSIA	1	55	24	722	292	7,367	218	5,549
DENMARK	127	4,534	113	4,355	187	6,485	204	6,729
U.A.E.	22	828	263	23,330	32	1,250	153	51,835
SAUDI ARABIA	143	5,101	487	17,658	77	3,736	148	7,457
GERMANY	303	9,947	235	6,705	279	32,062	140	4,746
YAMEN AR REP	25	1,331	0	0	0	0	115	2,668
NETHERLANDS	160	6,787	323	13,362	55	3,419	114	9,993
SPAIN	0	0	0	0	0	0	93	5,392
SWEDEN	0	0	0	0	0	0	63	2,617
SYRIA	0	0	0	0	0	0	60	1,109
JAPAN	102	5,734	58	3,315	100	4,027	45	1,754
SWITZERLAND	5	124	0	0	0	6	24	911
CONGO	0	0	2	110	0	0	21	884
HONG KONG	64	919	13	417	18	793	21	722
VIETNAM	0	0	0	0	10	396	21	332
KOREA REP	0	0	17	603	0	24	20	887
NEPAL	120	5,501	3	289	60	1,643	19	1,340
SIERRA LEONE	0	0	0	0	0	0	19	283
MALI	0	0	0	0	0	0	17	783
BAHRAIN	0	0	7	209	0	0	17	315
BELGIUM	0	0	0	0	0	0	15	1,175
SOUTH AFRICA	9	644	9	218	0	0	14	864
IRAQ	0	0	23	1,171	0	0	12	273
AUSTRIA	4	139	0	0	29	2,240	11	1,224
AUSTRALIA	51	1,693	19	684	2	130	10	654
NEWZEALAND	4	105	2	105	11	521	8	294
LEBANON	0	0	0	0	0	0	5	370
SINGAPORE	51	1,207	83	2,824	33	1,003	4	238
CZECH REP.	4	82	5	260	0	0	3	50
POLAND	2	107	0	0	0	0	3	70
CANADA	63	1,508	71	1,827	6	182	2	138
CHINA	0	0	34	1,841	0	0	1	29
NIGERIA	0	0	0	0	0	0	1	68
THAILAND	0	0	2	51	3	61	1	64
MALDIVES	1	30	2	74	0	13	1	22
REUNION	0	10	0	4	0	0	0	13
KUWAIT	51	2,829	15	897	0	0	0	3
BOTSWANA	0	0	0	0	0	0	0	11
FRANCE	55	3,487	17	811	0	0	0	1
SUDAN	0	0	0	0	0	0	0	1
ANGOLA	0	0	0	0	121	3,143	0	0

(Table 11.7 continued on next page)

Table 11.7 – Export of juices of other fruits HS Code 20098090 (Continued)

Country	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
UGANDA	8	497	0	0	60	1,706	0	0
CHINESE TAIPEI	10	342	0	0	2	72	0	0
MAURITIUS	1	105	0	0	2	100	0	0
TANZANIA	0	0	0	0	2	134	0	0
GREECE	0	0	0	0	1	47	0	0
ETHIOPIA	0	0	0	0	1	41	0	0
GUINEA	0	0	0	0	1	59	0	0
LIBERIA	0	0	0	0	1	55	0	0
OMAN	2	61	0	0	1	28	0	0
QATAR	0	0	1	18	1	29	0	0
ITALY	0	0	1	164	1	28	0	0
ALGERIA	34	2,103	102	5,888	0	0	0	0
MALAWI	0	0	72	2,181	0	0	0	0
IRAN	0	0	38	1,006	0	0	0	0
BARBODOS	0	0	34	1,974	0	0	0	0
NORWAY	0	0	15	719	0	0	0	0
OTHER COUNTRY	0	0	7	315	0	0	0	0
PAPUA N GUINE	0	0	2	192	0	0	0	0
KENYA	0	0	1	29	0	0	0	0
EGYPT	52	1,578	0	12	0	0	0	0
BHUTAN	60	911	0	0	0	0	0	0
GHANA	53	937	0	0	0	0	0	0
INDONESIA	5	152	0	0	0	0	0	0
MOZAMBIQUE	40	797	0	0	0	0	0	0
SRI LANKA	50	2,533	0	0	0	0	0	0
SURINAM	2	120	0	0	0	0	0	0
Total	2,620	96,686	2,940	132,913	2,458	166,617	2,706	172,220
Source: APEDA / DGCIS / Department of Commerce, Government of India								

Average realizations from export of juices of other fruits were Rs. 63.65 / kg for Apr-Dec 2007, Rs. 67.80 / kg for 2006-07. Rs. 45.21 / kg for 2005-06 and Rs. 36.90 / kg for 2004-05.

As in the case of jams, jellies etc., export of juices of fruits other than mangoes is a small percentage of export of mango pulp. India does not have any significant strength in any fruit juice except mango.



12. Import Summary

12.1 Import-export overview

The number of fruit and vegetable products exported by India is much larger than the number of products imported by the country. However, when one looks at the total imports and exports, it is clear that India imports more than what she exports. Moreover, imports are rising at a healthy rate, while exports are showing signs of weariness.

The following table compares total imports and total exports of all fruits and vegetables under chapters 7, 8 and 20.

Table 12.1 – Comparison of total imports and total exports of fruits and vegetables under Chapters 7, 8 and 20 of HS Code

HS Code	2006-07		April - Dec 07	
	Imports	Exports	Imports	Exports
	Rs. 000		Rs. 000	
Chapter 07	45,786,012	28,211,948	40,886,980	19,010,608
Chapter 08	37,366,431	39,821,477	25,607,351	25,454,987
Chapter 20	1,405,928	8,783,933	1,128,234	6,062,572
Total	84,558,371	76,817,358	67,622,565	50,528,167

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

The fall in exports and surge in imports can be seen more clearly from the following table which gives export and import figures for the items selected in this study

Table 12.2 – Comparison of imports and exports of fruits and vegetables selected in this study

	2004-05		2005-06		2006-07		April - Dec 07	
	QTY	Value	QTY	Value	QTY	Value	QTY	Value
	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
Imports	2,338,252	48,718,500	2,793,343	62,856,676	3,573,745	83,370,736	2,916,845	66,463,925
Exports	1,944,881	52,566,022	2,469,716	66,071,920	2,862,812	73,582,578	1,668,973	47,796,177

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

It is notable that exports of products under chapter 20 are steady while there is a distinct fall in case of chapters 7 and 8. Chapter 20 has value-added products while most items under chapter 7 and 8 are primary products.

Increasing imports of fruit and vegetable products can well be explained by the high GDP growth in India. As incomes rise, India is consuming more of almost every fruit and vegetable.

The import list of India is much sorter than export list. Bulk of imports consists of pulses. Nuts and dry fruits form the second most import category on India's shopping list. Fruit juices, frozen potatoes and prepared tomatoes come next on the list.

12.2 Import of vegetables under chapter 07 of HS code

Table 12.3 – Import of all items under chapter 07 of HS Code

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
7131000	PEAS (PISUM SATIVUM) DRIED & SHLD	16,251,456	18,240,753
7133100	BEANS OF THE SPP VIGNA MUNGO, HEPPEL OR VIGNA RADIATA, WILCZEK DRIED & SHLD	10,555,802	7,378,005
7139010	TUR	4,162,951	4,793,422
7134000	LENTILS (MOSUR), DRIED & SHLD	1,060,634	4,466,169
7133990	OTHERS	6,689,067	2,548,357
7132000	CHICKPEAS (GARBANZOS) DRIED & SHLD	3,563,126	1,817,729
7133300	KIDNEY BEANS INCL WHITE PEA BEANS DRIED & SHLD	1,649,929	742,049
7139099	OTHER DRIED & SHLD LUGUMINOUS VEGTBLS, OTHER THAN SPLIT.	1,363,387	619,518
7139091	OTHER DRIED & SHLD LUGUMINOUS VEGTBLS, SPLIT	48,284	70,068
7129090	OTHERS, DRIED	71,372	56,739
7032000	GARLIC FRESH OR CHILLED	8,935	55,738
7122000	ONIONS DRIED	18,719	11,251
7042000	BRUSSELS SPROUTS FRESH OR CHILLED	10,801	11,078
7133200	SMALL RED BEANS DRIED & SHLD	263,541	9,645
7104000	SWEET CORN FRZN	5,589	7,248
7112000	OLIVES PROVISIONALLY PRESERVED	14,333	6,628
7129030	DEHYDRATED GARLIC FLAKES	5,158	5,574
7099010	OLIVES FRESH OR CHILLED	1,958	5,235
7119090	OTHER VEGETABLES PROVISIONALLY PRESERVED	6,244	5,096
7108090	OTHERS	1,842	5,007
7129050	MARJORAM, OREGANO	4,398	4,614
7123900	OTHERS (E.G. TRUFFLES ETC.) DRIED.	3,418	4,447
7115900	OTHER MUSHROOMS & TRUFFLES PROVISIONALLY PRESERVED	12	3,357
7129040	DRIED GARLIC	1,221	2,817
7099090	OTHER VEGETABLES FRESH OR CHILLED N.E.S.	1,779	2,491
7031010	ONIONS FRESH OR CHILLED	0	2,380
7129020	DEHYDRATED GARLIC POWDER	2,303	1,929
7123100	MUSHROOMS OF GENUS AGARICUS, DRIED, WHOLE, CT, SLICED, BRKN	6,587	1,364
7114000	CUCUMBERS & GHERKINS PROVISIONALLY PRESERVED	364	1,280
7019000	POTATOES FRESH OR CHILLED OTHER THAN SEEDS	430	1,234

(Table 12.3 continued on next page)

Table 12.3 – Import of all items under chapter 07 of HS Code (Continued)

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
7049000	KOHRBI, KALE & SMLR EDBL BRASSICAS, FRSH/CHLD	0	1,162
7020000	TOMATOES FRESH OR CHILLED	1,024	1,086
7149090	OTHR EDBL RTS & TBRS CONTG HGH STRCH/INULN	0	835
7069010	HORSE RADISH	556	629
7095900	OTHER MUSHROOMS (EXCLDNG GENUS, AGARICUS) FRSH OR CHLD	363	512
7108010	TARRAGON	0	371
7095100	MUSHROOMS FRESH OR CHILLED	2,039	270
7119010	GREEN PEPPER IN BRINE	32	212
7092000	ASPARAGUS FRESH OR CHILLED	418	195
7102900	OTHR LEGUMINOUS VEGTBLS SHLD OR NT FRZN	200	156
7149010	SAGO PITH	0	101
7129010	ASPARAGUS DRIED	3,760	94
7119020	ASSORTED CANNED VEGETABLES	0	81
7102200	BEANS SHELLED OR UNSHELLED, FRZN	601	25
7051100	CABAGE LETTUCE (HEAD LETTUCE) FRSH OR CHLD	0	16
7091000	GLOBE ARTICHOKE FRESH OR CHILLED	733	5
7115100	MUSHROOMS OF GENUS AGARICUS PROVISIONALLY PRESRVD	424	4
7096090	OTHERS,	77	4
7097000	SPINACH FRSH/CHLD	1,330	0
7113000	CAPERS PROVISIONALLY PRESERVED	507	0
7095200	TRUFFLES FRESH OR CHILLED	280	0
7069090	OTHER ROOTS FRSH OR CHLD	14	0
7109000	MIXTURE OF VEGETABLES FRZN	6	0
7093000	AUBERGINES (EGG PLANTS) FRSH OR CHLD	5	0
7082000	BEANS SHLD OR UNSHLD FRSH OR CHLD	3	0
Total for Chapter 07		45,786,012	40,886,980

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

In India's import basket, the most important category of items under chapter 07 of HS Code is dried leguminous vegetables (pulses -0713 of HS Code). Our focus is only on pulses.

However, it is interesting to note that many products which are on India's export list find a significant mention on the above list. For example, onion and garlic, fresh as well as dehydrated are exported from India. Their presence on import list shows that Indian businessmen have turned truly global. They are buying from wherever they can buy cheap taking advantage of good crop in any country across the globe and also to gain from seasonal fluctuations in prices.

Import of pulses is increasing every year in quantity as well as value terms. Government of India has permitted duty free imports to keep domestic prices in check.

Pulses are an important item of food in India since they are often the main source of protein for people who do not consume meat.



Indians consume pulses in various forms – whole, split but not skinned, and split & skinned. Imports are mainly of whole variety since it is cheaper to do processing in India.

Table 12.4 – Import of select dried leguminous vegetables shelled whether or not skinned or split under HS Code 0713

HS Code	Commodity Description	2004-05		2005-06		2006-07		April - Dec 07	
		QTY	Value	QTY	Value	QTY	Value	QTY	Value
		Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
0713	Dried Leguminous Vegetables Shld Whether or Not Skinned or Split								
07131000	Peas dried & shelled	654,872	7,166,768	810,069	8,105,410	1,388,577	16,251,457	1,225,063	18,240,753
07132000	Chickpeas (Garbanzos) dried & shelled	132,875	2,326,143	281,756	5,355,156	127,318	3,563,126	77,815	1,817,729
07133100	Beans of the Spp Vigna Mungo, Hepper or Vigna Radiata, Wilczek, dried & shelled	83,965	1,307,366	74,990	1,729,856	332,414	10,555,801	277,112	7,378,005
07133200	Small red beans dried & shelled	14,348	218,830	13,397	241,441	11,819	263,541	491	9,645
07133300	Kidney pea beans incl. White pea beans dried & shelled	27,216	475,739	42,024	827,938	56,632	1,649,928	0	742,049
07133990	Other beans dried & shelled	163,484	2,042,124	173,521	3,164,071	219,662	6,689,068	107,465	2,548,357
07134000	Lentils (Mosur) dried & shelled	26,685	553,117	36,114	684,901	58,935	1,060,635	210,442	4,466,169
07139010	Other dried & shelled leguminous vegetables - Tur	244,674	3,643,215	228,835	3,624,801	246,528	4,162,951	218,813	4,793,422
07139099	Other dried & shelled leguminous vegetables, Other than split	154,318	2,078,091	207,144	4,167,957	45,418	1,363,385	23,787	619,518
TOTAL for 0713		1,502,438	19,811,393	1,867,851	27,901,531	2,487,303	45,559,892	2,140,988	40,615,645

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

12.3 Import of fruits under chapter 08 of HS code

Table 12.5 – Import of all fruits under chapter 08 of HS Code

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
8013100	CASHEW NUTS FRESH/DRIED IN SHELL	18,186,123	11,644,537
8021100	ALMONDS FRSH OR DRIED IN SHELL	6,999,880	5,501,241
8081000	APPLES FRSH	1,472,247	1,592,824
8025000	PISTACHIOS FRESH OR DRIED	1,822,684	1,438,037
8041030	DRY DATES HARD (CHIOHARA OR KHAREK)	1,525,159	1,195,834
8042090	OTHER FIGS EXCLDNG FRSH	1,047,207	1,044,091
8041020	DRY DATES SOFT (KHAYZUR OR WET DATES)	1,834,051	925,116
8021200	SHELLED ALMONDS FRSH OR DRIED	1,878,620	757,098
8062010	RAISINS	449,962	299,022
8029011	BETEL NUT, WHOLE	628,072	227,708
8131000	APRICOTS, DRIED	262,052	221,980
8061000	GRAPES FRESH	101,688	187,656
8082000	PEARS & QUINCES FRSH	110,303	146,297
8051000	ORANGES FRESH OR DRIED	79,124	95,259
8105000	KIWI FRUIT	89,311	70,871
8134090	OTHERS FRUIT DRIED (EXCLDNG TAMARIND & SINGODA WHOLE	5,883	28,471
8029090	OTHER NUTS EXCLDNG BETEL NUTS,FRSH/DRIED	63,971	28,101
8094000	PLUMS AND SLOES , FRESH	15,600	24,172
8029012	BETEL NUT,SPLIT	460,118	22,786
8109010	POMEGRANATES FRESH	3,132	18,082
8062090	SULTANAS & OTHER DRIED GRAPES	171,215	15,256
8109020	TAMARIND FRESH	18,663	14,189
8013210	CASHEW KARNEL, BROKEN	14,749	13,385
8041010	DATES FRESH (EXCLUDING WET DATES)	17,497	10,587
8041090	OTHER DATES	9,170	10,567
8029019	OTHER BETEL NUTS	18,298	10,189
8042010	FIGS FRESH	4,680	9,459
8109090	OTHERS FRESH	11,647	8,723
8071900	MELON , OTHER THAN WATER MELON	8,632	7,973
8013220	CASHEW KARNEL, WHOLE	6,557	7,163
8132000	PRUNES DRIED	10,528	5,925
8091000	APRICOTS FRESH	12,584	5,613
8119090	OTHR FRUITS & NUTS W/N COKD,FRZN NOT CONTNG SUGR	1,993	4,150
8093000	PEACHES INCL NECTARINES FRESH	4,184	2,016
8092000	CHERRIS FRESH	63	1,474

(Table 12.5 continued on next page)

Table 12.5 – Import of all fruits under chapter 08 of HS Code (Continued)

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
8045040	MANGO PULP	1,807	1,371
8045030	MANGOES SLICED DRIED	0	1,162
8101000	STRAWBERRIES FRESH	2,632	1,144
8134010	TAMARIND DRIED	32	1,135
8024000	CHESTNUTS (CASTANEA SPP) FRSH OR DRIED	97	922
8133000	APPLES DRIED	0	785
8054000	GRAPEFRUIT FRESH OR DRIED	339	685
8059000	OTHER CITRUS FRUITS FRESH OR DRIED	225	677
8104000	CRNBERY BILBERS & OTHR OF GNUS VCINUM,FRSH	372	667
8135020	MIXTURES OF DRIED FRUIT	1,350	592
8052000	HANDARINS (INCL TANGRINES & SATSUMAS);CLMNTINES,WLKNGS & SMLR CITRUS HYBRD FRSH/DRID	123	539
8129090	OTHER	120	478
8045010	GUAVAS FRESH OR DRIED	107	468
8023200	SHELLED WALNUTS FRSH OR DRIED	0	146
8135010	MIXTURES OF NUTS	1,081	138
8022200	SHELLED HAZELNUTS, FRSH OR DRIED	1,257	123
8011990	OTHR COCONUTS EXCLDNG FRESH & DRIED	0	108
8045090	OTHR FRESH OR DRIED	2,635	88
8102000	RASPBERRIS,BLACKBRS,MULBRS & LOGANBRS,FRSH	0	78
8043000	PINEAPPLES FRESH OR DRIED	1,535	57
8013290	OTHER CASHEW KERNEL	31	54
8055000	LEMONS(CITRUS LIMON CITRUS LIMONUM) & LIMES(CITRUS AURANTIFOLIA) FRSH OR DRIED	0	45
8022100	HAZELNUTS IN SHELL,FRSH OR DRIED	0	30
8109060	LICHI	0	7
8112010	RASPBERS,BLACKBERS,MULBERS,LOGANBERS COOKED/UNCOOKED CONTAINING ADDED SUGAR	2,971	0
8103000	BLACK,WHITE/RED CORRANTS & GOOSEBERRIES,FRSH	1,797	0
8140000	PEEL OF CITRUS FRUIT/MELONS(INCL WTRMELNS), FRSH,FRZN,DRIED/PROVSNLV PRSVD IN BRINE, INSULPHUR WTR OR IN OTHR PRSVTV SOLNS	1,599	0
8072000	PAPAWS (PAPAYAS) FRESH	308	0
8030000	BANANAS INCLUDING PLANTAINS FRSH OR DRIED	264	0
8121000	CHERRIES PROVSNLV PRSVD	92	0
8071100	WATER MELONS	10	0
Total for Chapter 08		37,366,431	25,607,351

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

Table 12.6 – Import of select fruits under chapter 08 of HS Code

HS Code	Commodity Description	2004-05		2005-06		2006-07		April - Dec 07	
		QTY	Value	QTY	Value	QTY	Value	QTY	Value
		Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
0801	Coconut, Brazil Nuts, Cashew Nuts, Fresh or Dried Whether or Not Shelled or Peeled								
08013100	Cashew nuts fresh / dried in shell	478,665	17,992,751	542,607	20,823,360	585,893	18,186,122	458,613	11,644,537
0802	Other Nuts, Fresh or Dried Whether or Not Shelled or Peeled								
08021100	Almonds fresh or dried in shell	26,661	4,787,662	24,166	6,118,672	38,289	6,999,881	36,626	5,501,241
08021200	Shelled almonds fresh or dried	2,425	698,320	2,640	897,212	7,172	1,878,617	2,939	757,098
08025000	Pistachios fresh or dried	4,972	982,911	4,369	1,117,943	6,057	1,822,684	5,604	1,438,037
08029011	Betel nut w hole	18,667	264,029	25,600	364,817	40,600	628,072	12,411	227,708
08029012	Betel nut split	9,953	132,622	25,595	324,103	35,168	460,117	1,870	22,786
0804	Dates, Figs, Pineapples, Avocados, Guavas, Mangoes & Mangosteens, Fresh or Dried								
08041020	Dry dates soft (khayzur or wet dates)	178,442	1,019,205	160,101	1,224,848	191,015	1,834,050	93,095	925,116
08041030	Dry dates hard (chhoara or kharak)	64,951	1,035,029	75,892	1,197,653	92,820	1,525,160	80,919	1,195,834
08042090	Figs excluding fresh	3,276	216,091	2,635	590,971	3,657	1,047,206	3,651	1,044,091
0806	Grapes Fresh or Dried								
08061000	Grapes fresh	1,146	53,578	1,496	77,623	1,976	101,689	2,388	187,656
08062010	Grapes dried, raisins	6,902	397,801	7,197	482,659	6,742	449,959	4,704	299,022
08062090	Sultanas & other dried grapes	470	25,905	568	34,555	2,132	171,214	395	15,256
0808	Apples, Pears & Quinces, Fresh								
08081000	Apples fresh	21,622	615,714	32,368	905,885	48,982	1,472,248	45,766	1,592,824
08082000	Pears & Quinces fresh	2,951	66,058	4,419	92,873	5,452	110,303	11,004	146,297
0813	Fruit Dried Excluding under Heads No. 08.01 to 08.06, Mixtures of Nuts or Dried Fruits								
08131000	Apricots dried	2,792	167,281	1,890	158,481	2,193	262,052	2,220	221,980
Total for Chapter 8		823,896	28,454,957	911,544	34,411,655	1,068,146	36,949,374	762,205	25,219,484

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

In value as well as cashew nuts in shell are on top of this list. India imports cashew nuts in shell to process them and export shelled cashew nuts.

India imports almonds, pistachios, dates, raisins, sultanas, dried apricots and dry figs in significant quantities for domestic consumption. All the above dry fruits (including cashew nuts) are an essential part of festival celebrations in India. Festival season from September to December sees a big jump in the consumption of dry fruits.

Betel nuts are eaten with betel leaf (*paan*) as well as part of mouth fresheners called *paan masala* (often containing tobacco).

Import of fresh fruits (apples, pears and grapes) started in recent years due to initiatives taken by growers of USA and other fruit producing countries. Fresh fruits are imported during months when the fruits are not available from domestic crop. Year-round availability of fruits like apples has brought about a change in eating habits of Indians, especially the prosperous ones.

Import of fresh fruits has been growing steadily. However, the volumes are still very small keeping in view the large size of Indian market. We can look forward to continuous growth in import volumes for the next few years.

In addition to the selected fruits given in Table 12.6, there are many other fruits (given in Table 12.5), which may have potential to grow in the years to come. Oranges, kiwis, plums, prunes and melons appear to hold good potential.

12.4 Import of foods under chapter 20 of HS code

Chapter 20 relates to Preparations of vegetables, fruits, nuts or other parts of plants.

Table 12.7 – Import of all products under chapter 20 of HS Code

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
20041000	POTATOES PRPD/PRSD, FRZN	264,003	156,637
20098090	OTHER FRUIT JUICES	164,597	146,687
20097900	OTHER APPLE JUICE VAL.>20	154,629	137,315
20029000	OTHER PRPD/PRSD TOMATOES	118,466	115,090
20091900	OTHER ORNG JUICE NOT FROZEN/EXCLDING FROZN	40,229	85,402
20091100	ORANG JUIC FROZN	159,779	73,067
20099000	MIXTRS OF JUICES UNFRMNTD NT CONTNG SPIRIT	75,102	52,879
20088000	STRAWBERRIES PREPARED OR PRESERVED	41,770	43,169
20079990	JAMS JELLIES MRMLDS ETC OF OTHER FRUITS	43,479	41,112
20049000	OTHR VEG & MIXTRS OF VEG, PRPD/PRSD,FRZN	12,800	24,895
20021000	TOMATOES WHOLE OR IN PIECES	12,291	24,659
20094900	OTHER PINEAPPLE JUICE VALUE >20	28,816	22,948
20089999	OTHER FRUITS PREPARED/PRESERVED	10,704	20,752
20083010	ORANGE PREPARED OR PRESERVED	15,984	19,309
20086000	CHERRIES PREPARED OR PRESERVED	15,152	18,625
20096900	OTHER JUICE(INCL.MUST) VALUE>30	18,061	17,306
20057000	OLIVES PRPD/PRSD, NT FRZN	16,327	13,145
20058000	SWEET CORN PRPD/PRSD, NT FRZN	14,851	10,247
20052000	POTATOES PRPD/PRSD, NOT FRZN	48,703	9,526
20054000	PEAS (PTSOM SATIVUM) PRPD/PRSD,NT FRZN	14,642	9,199
20019000	OTHER EDIBLE PARTS OF PLANTS PREPARED OR PRESERVED BY VINEGAR/ACETIC ACID	8,816	6,803
20098010	MANGO JUICE	13,691	6,459
20081920	OTHER ROASTED NUTS AND SEEDS	2,810	6,446
20081930	OTHER NUTS OTHERWISE PRPD/PRSD	972	6,287
20059000	OTHR VETBLS & ITS MXTRS PRPD/PRSD,NT FRZN	13,938	5,694
20055900	OTHR BEANS PRPD/PRSD,NT FRZN	1,614	4,780
20081990	OTHER NUTS AND SEEDS NES	5,917	4,361
20093900	OTHER SINGLECITRUS FRUIT JUICE VALUE>20	6,104	3,702
20092900	OTHER GRAPE FRUIT JUICE VALUE>20	19,127	3,574
20089913	ORANGE SQUASH	243	3,337
20085000	APRICOTS PREPARED OR PRESERVED	664	3,206
20039000	OTHER MUSHROOMS & TRUFRLS PRPD/PRSD	6,681	3,054
20083090	OTHER CITRUS FRUITS PREPARED OR PRESERVED	2,979	2,923

(Table 12.7 continued on next page)

Table 12.7 – Import of all products under chapter 20 of HS Code (Continued)

HS Code	Commodity Description	Value Rs. 000	
		2006-07	Apr-Dec 07
20087000	PEACHES PREPARED OR PRESERVED	2,054	2,703
20056000	ASPARAGUS PRPD/PRSD,NT FRZN	1,427	2,685
20089919	OTHER FRUIT SQUASH	2,489	2,266
20060000	VEGTBLS FRUITS NUTS FRUIT PEEL & OTHR PRTS OF PLNTSPRSD BY SUGR (DRAIN D GLACE/CRYSTALLISED)	246	1,855
20071000	HOMOGENISED PREPARATIONS	18,333	1,737
20082000	PINE APPLES PREPARED OR PRESERVED	6,781	1,591
20079910	JAMS JELLIES MRMLDS ETC. OF MANGO	13	1,546
20079100	JAMS JELLIES MRMLDS ETC OF CITRUS FRUITS	1,386	1,357
20095000	TOMATO JUICE	2,479	1,240
20055100	BEANS SHELLD PRPD/PRSD, NT FRZN	1,554	1,151
20089991	FRUITS COCKTAIL PREPARED/PRESERVED	32	938
20081940	OTHER ROASTED AND FRIED VEGETABLE PRODUCTS	2,481	930
20089200	OTHR MXTRS OF FRUITS EXCL SUB-HD NO 200819 PRPD/PRSD	265	929
20031000	MUSHROOMS PREPD/PRSD	1,237	745
20051000	HOMOGENISED VGTBLS,PRPD/PRSD, NT FRZN	604	661
20089911	MANGO SQUASH	230	635
20081100	GROUND NUTS , PRPD/PRSD	242	540
20089912	LEMON SQUASH	0	432
20011000	CUCMBRS & GHRKNS PRPD/PRSD BY ACETIC ACID	416	357
20097100	APPLE JUICE OF BRX VAL.NOT EXC.20	3,661	330
20079940	APPLE	0	301
20081910	CASHEW NUT,ROASTED AND/OR SALTED	1,568	229
20089914	PINEAPPLE SQUASH	287	142
20089100	PALM HEARTS PREPARED OR PRESERVED	12	92
20091200	ORANG JUIC NOT FROZN VALUE NOT EXCEEDING 20	492	90
20084000	PEARS PREPARED OR PRESERVED	1,002	69
20089993	APPLES, PREPARED OR PRESERVED	98	35
20094100	PINEAPPLE JUICE OF BRX VALUE NOT EXC.20	0	20
20096100	GRAPE JUICE(INCL. MUST) OF BRX VALUE NOT EXC.30	0	20
20089992	GRAPES, PREPARED OR PRESERVED	639	13
20092100	GRAPE FRUIT JUICE OF A BRX VALUE NOT EXC.20	1,959	0
Total for Chapter 20		1,405,928	1,128,234

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

Table 12.8 – Import of select products under chapter 20 of HS Code

HS Code	Commodity Description	2004-05		2005-06		2006-07		April - Dec 07	
		QTY	Value	QTY	Value	QTY	Value	QTY	Value
		Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000	Tons	Rs. 000
2002	Tomatoes prepared or preserved								
20029000	Other prepared / preserved tomatoes	2,133	56,344	3,918	100,314	3,947	118,466	4,180	115,090
2004	Other Vegetables Prepared / Preserved Otherwise Than by Vinegar / Acetic Acid and Frozen								
20041000	Potatoes prepared / preserved, frozen	2,876	144,913	4,731	197,075	5,872	264,001	3,500	156,637
2009	Fruit Juices, Vegetable Juices Unfermented & Not With Added Spirit, Whether or Not Sweetened								
20091100	Orange juice frozen	2,520	88,049	1,681	88,435	2,230	159,779	846	73,067
20097900	Other apple juice val.>20	498	24,606	1,318	56,133	3,469	154,628	2,945	137,315
20098090	Other fruit juices	3,892	138,238	2,300	101,533	2,777	164,596	2,182	146,687
Total for Chapter 20		11,919	452,150	13,948	543,490	18,295	861,470	13,652	628,796

(Source: APEDA / DGCIS / Ministry of Commerce, Government of India)

India does not import prepared food in large quantities. This is obvious when one compares the total imports under the three chapters. In 2006-07, India imported Rs. 45.786 bio worth of goods under chapter 07, Rs. 37.366 bio worth under chapter 08 and only worth Rs. 1.405 bio under chapter 20. Even within chapter 20 goods, major imports are of products which are semi-finished goods and are used as raw materials.

Import of branded preparations of fruits, vegetables and nuts are insignificantly small.

The reasons for this state of affairs are easy to understand. Due to low labor costs, processing costs are low in India. Hence, even though a multinational company may be selling its branded products in India, the company finds it more profitable to import key ingredients and do the manufacturing in India, instead of importing packed branded products. For example, Tropicana juice sold in India is manufactured and packed in India, though the concentrate / frozen juice may be imported.



Some products mentioned in Table 12.7 are imported into India for re-export and not for domestic consumption. For example, cucumbers and gherkins have been imported even though there is virtually no domestic consumption and India produces and exports significant quantities of cucumbers and gherkins.

13. Import of pulses

13.1 Peas

Table 13.1 – Import of peas (*Pisum sativum*) dried & shelled HS Code 07131000

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
CANADA	451,297	4,780,247	646,659	6,306,416	862,419	9,896,094	886,443	13,167,370
U S A	4,914	71,153	51,544	616,334	136,943	1,681,874	148,965	2,214,931
FRANCE	72,297	842,631	32,266	312,526	106,965	1,220,592	93,716	1,357,115
AUSTRALIA	59,927	670,480	32,084	375,234	106,841	1,412,201	43,885	722,365
UKRAINE	14,486	148,326	30,680	282,547	121,096	1,335,902	23,753	341,575
RUSSIA	1,603	15,950	7,026	68,058	20,979	228,323	13,312	188,524
GERMANY					12,180	133,300	10,751	164,884
MALAWI	9,988	148,273	1,805	25,770	2,763	46,257	1,472	28,612
TANZANIA REP	4,550	75,263	3,875	58,098	11,528	201,603	1,269	27,489
KENYA							1,102	22,445
NEW ZEALAND	250	3,258	476	6,456	362	4,976	182	2,273
PAKISTAN IR	154	2,282	597	9,097	1,280	18,552	175	2,448
MOZAMBIQUE	5,279	65,364	1,972	26,708	2,391	37,186	39	723
CHINA P RP	158	1,777						
TAIWAN					498	6,489		
DENMARK	760	14,597			304	5,631		
ETHIOPIA	110	1,497	43	608				
ARGENTINA					48	578		
IRAN	439	7,287						
IRAQ	47	713						
MYANMAR	28,414	315,653	770	14,866	343	4,749		
MOLDOVA					1,504	15,742		
ROMANIA	180	1,712						
SINGAPORE			272	2,692	133	1,408		
U.A.E.	20	305						
Total	654,872	7,166,768	810,069	8,105,410	1,388,577	16,251,457	1,225,063	18,240,753
Average Price Rs. /kg		10.94		10.01		11.70		14.89

Source: APEDA / DGCIS / Department of Commerce, Government of India

Imports of dry peas have been continuously rising.

Canada is the largest producer and exporter of dry peas in the world, accounting, on average, for about 25 per cent of world production and 50 per cent of world exports. In 2006-07 Canada produced 2.52 mio tons of peas. The production figures for the same year for some other countries are as follows: China 1.14 mio tons, Russia 1.158 mio tons, France 1.04 mio tons, India 0.8 mio tons, USA 0.637 mio tons, Ukraine 0.485 mio tons, Australia 0.149 mio tons, Germany 0.288 mio tons, and UK 0.145 mio tons. Global production during 2006-07 was estimated to be about 9.8 mio tons. (Source: <http://www.agr.gc.ca>)

It is only natural that Canada has the top slot in the above table. Australia seems to be sending almost 70 per cent of her production to India, while USA is sending more than 20 per cent of her production.

India is the world's largest importer and consumer of dry peas. China produces more than India

but India imports much more than China. In 2006-07, India consumed about 2.1 mio tons of peas, which is more than 21 per cent of world production of peas.



Table 13.2 – World dry peas exports from 2003 to 2007

	2003	2004	2005	2006	2007
000 Tons					
Canada	1,000	1,546	2,349	2,310	2,188
France	529	566	488	437	350
USA	118	179	368	432	469
Ukraine	43	174	174	269	n/a
Australia	92	185	121	237	134
Russia	44	88	89	92	n/a
Other	503	401	417	410	n/a
TOTAL	2,329	3,139	4,006	4,187	n/a

Source: <http://www.agr.gc.ca>

Table 13.3 – World dry peas imports from 2003 to 2007

	2003	2004	2005	2006	2007
000 Tons					
India	700	644	810	1,146	n/a
Spain	190	724	1,031	663	n/a
Belgium	249	361	389	334	n/a
China	77	90	262	330	263
Netherlands	268	210	203	169	n/a
Bangladesh	113	188	97	n/a	n/a
Italy	88	139	174	174	n/a
Canada	34	28	84	77	43
Pakistan	64	42	99	n/a	n/a
Cuba	53	101	67	n/a	n/a
USA	40	49	54	58	47
Germany	37	91	26	38	n/a
Colombia	38	37	41	34	n/a
Other	658	608	724	n/a	n/a
TOTAL	2,609	3,312	4,061	n/a	n/a

Source: <http://www.agr.gc.ca>

13.2 Chickpeas

Table 13.4 – Import of chickpeas (Garbanzos) dried & shelled HS Code 07132000

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
MYANMAR	21,725	336,473	17,597	375,946	25,710	808,071	36,542	866,983
TANZANIA REP	6,854	98,674	18,821	317,740	10,159	307,721	20,941	477,392
AUSTRALIA	13,917	222,219	58,350	1,013,785	74,882	1,944,277	16,399	384,104
ETHIOPIA	491	6,622	1,452	23,122	1,639	37,273	1,380	29,932
UNSPECIFIED							1,117	26,156
CANADA	10,251	209,565	4,986	108,029	7,982	233,588	864	21,299
RUSSIA	3,170	45,614	7,818	145,084	885	20,583	398	8,747
U S A	21	591	660	9,957	1,767	63,276	88	1,680
SINGAPORE	66	1,550					84	1,356
U.K.							3	80
CHINA P RP					549	16,126		
EGYPT A RP	64	1,213						
IRAN	56,455	976,994	30,509	836,248				
IRAQ	110	2,473						
KENYA			138	2,558				
LEBANON					1	17		
MALAYSIA	229	3,507						
NEW CALEDONIA					47	1,283		
PAKISTAN IR	425	6,071	122,316	1,992,266	22	417		
SAUDI ARAB			2	20				
SOUTH AFRICA					415	11,037		
TURKEY	18,601	404,119	18,284	511,586	2,970	109,508		
U ARAB EMTS	329	8,142	44	1,291				
UKRAINE	168	2,316	489	10,298	81	2,054		
UZBEKISTAN			291	7,226	210	7,895		
Total	132,875	2,326,143	281,756	5,355,156	127,318	3,563,126	77,815	1,817,729
Average Price Rs. /kg		17.51		19.01		27.99		23.36

Source: APEDA / DGCIIS / Department of Commerce, Government of India

India ranks at number 1 in the list of chick peas importing countries followed by Pakistan and Bangladesh. Major exporters of chickpeas are Turkey, Australia, Mexico, Canada, Iran, Myanmar, Tanzania, USA, Russia and Morocco.

Myanmar enjoys maximum freight advantage in respect of India. Hence, Myanmar tops the above list.

Two types of chickpeas are raised: Kabuli and Desi. Kabuli chickpeas are usually grown in temperate regions of the world. They have large seeds that contain a thin seed coat and are graded into 58 or fewer seeds per ounce. Kabuli chickpeas are often referred to as “Garbanzo beans” and have a white to cream-colored seed coat.

Desi chickpeas are usually grown in more semi-arid tropic regions of the world. They have smaller seeds than Kabuli chickpeas, and are graded around 100 or more seeds per ounce. Desi seeds have a thick, irregular-shaped seed coat with color ranging from light tan to black.

Chickpea is the world's third most important food legume crop. Chickpea is probably used in more diverse food preparations than any other pulse crop. World production hovered between 8-9 mio tons and has been stable around 8 mio tons in the last 10 years.

India is the largest producer and constitutes about 66 per cent (2004-05) in the world production. Other major producers are Pakistan and Turkey. More than 90 per cent of the chick peas are consumed in the countries where they are produced and developing countries like India and Pakistan import to meet the shortages from countries like Australia and Canada.

Among the major producers, Turkey and Pakistan have seen increase in the production in the past few years. Ministry of Agriculture, Govt. of India estimates production of chickpeas during 2006-07 to be 5.97 mio tons.

According to Canadian estimates, world production of chickpeas touched 8.6 mio tons in 2005-06 higher than 7.9 mio tons during previous year mainly due to increase in production of Kabuli type and a decrease in desi type.

Table 13.5 – World Chickpea Production

	2000-01	2001-02	2002-03	2003-04	2004-05(E)
Production (000 Tons)					
India	3,850	5,470	4,130	5,770	5,300
Pakistan	565	397	362	672	600
Turkey	548	535	650	600	600
Iran	160	269	290	255	240
Myanmar	84	119	194	200	170
Ethiopia	176	176	180	180	170
Mexico	234	326	235	240	150
Australia	150	258	136	178	131
Syria	65	60	89	87	75
Spain	46	53	73	65	60
Canada	388	455	156	68	55
United States	59	73	38	20	20
Others	290	304	337	325	329
Total Production	6,615	8,495	6,870	8,660	7,900
Total Kabuli	1940	2220	2020	1810	1660
Total Desi	4675	6275	4850	6850	6240

(Source: Seasonal Outlook on Chana, Karvy Comtrade Ltd.)



Chickpeas kabuli



Chickpeas desi

13.3 Green & black beans

HS Code 07133100 includes Vigna mungo hepper (urad or black lentil or black gram or black matpe bean) and Vigna radiata wilczek (mung bean or green bean or moong or munggo or munggo or green gram or golden gram).



Vigna Mungo (Urad)



Vigna radiate (Moong)

Table 13.6 – Import of green & black beans dried & shelled HS Code 07133100

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
MYANMAR	43,399	665,762	55,600	1,290,821	303,764	9,607,597	262,767	6,992,271
TANZANIA REP	4,491	64,648	4,011	75,272	496	13,844	6,841	174,107
KENYA	798	12,711	452	8,620	2,319	72,395	5,517	155,862
UZBEKISTAN	1,475	26,456	1,145	28,316	2,148	73,955	360	12,158
ETHIOPIA	1,140	18,979	91	1,927	1,110	36,216	303	8,632
CHINA P RP	890	13,275	3,018	82,836	12,133	416,973	240	7,864
THAILAND					1,710	57,460	226	7,470
MOZAMBIQUE	2,234	34,217			259	6,362	366	6,541
MALAYSIA					286	8,683	161	4,136
SOMALIA							130	2,911
BRAZIL							96	2,743
PAKISTAN IR	7,978	142,996	2,415	50,375	683	21,207	50	1,663
MADAGASCAR							44	1,254
INDONESIA	135	2,420	288	6,580	1,541	50,096	12	394
AFGHANISTAN	20	351						
AUSTRALIA	1,125	20,653	1,125	28,801	1,223	37,980		
CANADA	977	11,287			26	1,588		
DJIBOUTI	110	2,077						
IRAN	18,893	288,215	6,743	154,741	4,635	149,427		
IRAQ	79	830						
NEPAL			102	1,567				
SRI LANKA DSR					37	683		
U ARAB EMTS	1	9						
UGANDA					44	1,335		
UKRAINE	221	2,480						
TOTAL	83,965	1,307,366	74,990	1,729,856	332,414	10,555,801	277,112	7,378,005
Average Price Rs. /kg		15.57		23.07		31.76		26.62

Source: APEDA / DGCIS / Department of Commerce, Government of India

13.4 Small red beans

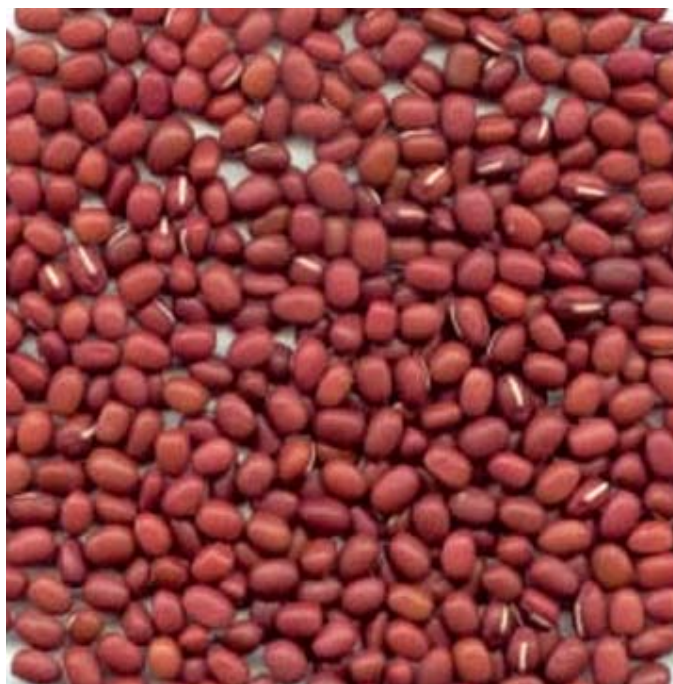


Table 13.7 – Import of small red beans dried & shelled HS Code 07133200

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
MOZAMBIQUE							373	6,645
MYANMAR	8,444	123,080	10,784	194,774	7,587	162,728	118	3,000
AUSTRALIA	1,897	26,394	2	36				
CANADA	68	2,066						
CHINA P RP	3,029	53,399	1,937	36,975	3,740	90,912		
ETHIOPIA	767	11,310	674	9,656	492	9,901		
IRAN	50	1,126						
TURKEY	68	1,145						
U ARAB EMTS	3	31						
U K	22	279						
TOTAL	14,348	218,830	13,397	241,441	11,819	263,541	491	9,645
Average Price Rs./kg		15.25		18.02		22.30		19.64

Source: APEDA / DGCIS / Department of Commerce, Government of India

Small red beans are not popular in India. Imports are small and seem to be decreasing.

13.5 Kidney beans



Red kidney beans

Table 13.8 – Import of kidney beans dried & shelled HS Code 07133300

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
CHINA P RP	18,804	359,125	33,339	681,058	43,001	1,298,794	9,967	335,414
MYANMAR	6,212	81,627	6,149	108,382	9,698	256,232	12,860	333,103
ETHIOPIA	1,923	28,724	2,367	35,568	2,804	62,425	2,278	50,134
BRAZIL					48	1,421	593	18,975
UNSPECIFIED							47	1,728
KENYA					622	15,721	57	1,336
USA							43	691
DJIBOUTI					110	2,963	24	668
MADAGASCAR					109	4,233		
PERU	44	1,572			33	1,453		
SWITZERLAND	187	3,957						
TANZANIA REP			124	2,079	75	1,500		
THAILAND					70	2,610		
U ARAB EMTS			45	851				
UZBEKISTAN	46	734			62	2,576		
Total	27,216	475,739	42,024	827,938	56,632	1,649,928	25,869	742,049
Average Price Rs. /kg		17.48		19.70		29.13		28.69

Source: APEDA / DGCIS / Department of Commerce, Government of India



Light speckled kidney beans

Red as well as light speckled beans are consumed in India. Kidney beans (called *rajmah*) are popular in north-western states – Delhi, Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir. Consumption in other states is relatively small.

13.6 Lentils

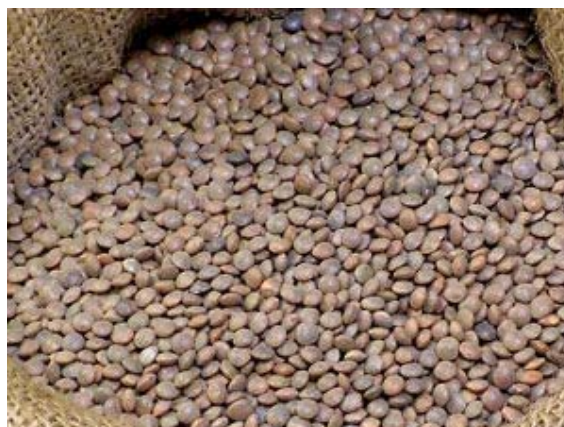


Table 13.9 – Import of lentils (mosur) dried & shelled HS Code 07134000

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
CANADA	6,678	124,735	21,054	317,961	32,321	471,388	156,598	3,279,348
AUSTRALIA					11,252	242,999	31,830	752,008
U S A			26	371	7,503	108,415	17,749	312,851
NEPAL	15,252	354,789	14,591	359,129	7,778	236,884	1,883	60,951
TURKEY							1,757	49,419
IRAN							501	8,847
UNSPECIFIED							124	2,745
CHINA P R P	4,282	66,510	334	5,504				
LEBANON					0	6		
PAKISTAN IR	223	3,528						
TANZANIA REP	250	3,555	110	1,936				
U K					1	35		
UKRAINE					79	908		
Total	26,685	553,117	36,114	684,901	58,935	1,060,635	210,442	4,466,169
Average Price Rs. /kg		20.73		18.96		18.00		21.22

Source: APEDA / DGCIS / Department of Commerce, Government of India

Canada is the largest exporter of lentils in the world. Canada is the main producer of the green type of lentils in the world, accounting for about 75 per cent of world production. However, production of the red type has been increasing and Canada has become a major producer. Canadian production of dark green speckled and brown types is small, accounting for only about 2 per cent of total Canadian lentil production. Canadian red lentils have a brown or pale green seed coat with red cotyledons. The red type varieties include Crimson, Redcap, Redberry, Robin, Blaze, Rouleau and Rosetown, with seed size of 30-40 grams/1000 seeds.

The seed coat colour of lentils can be clear, green, tan, grey, brown or black. The cotyledon is yellow, red or green. The two main market types are red and green. Although specific data is not available, an estimated 70 per cent of world lentil production is the red type, 25 per cent green type and 5 per cent brown and other types. Canada and the US produce mainly the green type whereas the rest of the world produces mainly the red type.

India imports mainly the red variety of lentils.

The top five exporting countries (Canada, Turkey, Australia, India and the US) account for about 82 per cent of world exports. About 60 per cent of the exports were red type, 35 per cent green and 5 per cent brown and other. Canada share of world exports was 33 per cent in 2004, but increased to about 45 per cent in 2005. Imports were distributed much more widely than exports, with the top 10 importing countries accounting for only 55 per cent of imports.

Table 13.10 – World lentils exports from 2001 to 2005

	2001	2002	2003	2004	2005
000 Tons					
Canada	490	352	370	372	576
Turkey	159	119	217	171	118
Australia	218	242	85	150	108
India	106	86	83	137	n/a
USA	97	102	94	83	160
Syria	12	11	70	71	n/a
China	14	21	33	37	34
Nepal	15	28	30	15	n/a
Other	63	58	55	84	n/a
TOTAL	1,174	1,019	1,037	1,120	n/a

Source: <http://www.agr.gc.ca>

Table 13.11 – World lentils imports from 2001 to 2005

	2001	2002	2003	2004	2005
000 Tons					
Bangladesh	47	63	123	110	n/a
Sri Lanka	91	107	91	93	n/a
Egypt	113	100	61	89	n/a
Colombia	50	65	53	63	67
Spain	47	47	47	41	54
Algeria	47	63	67	39	86
Pakistan	68	67	81	36	n/a
Sudan	14	20	14	32	n/a
Mexico	31	29	29	31	30
India	87	67	38	27	n/a
France	32	31	32	27	33
Italy	28	27	31	27	28
Saudi Arabia	25	21	24	26	n/a
Peru	28	27	20	25	n/a
Germany	26	21	21	24	20
Other	404	330	377	358	n/a
TOTAL	1,138	1,085	1,109	1,024	n/a

Source: <http://www.agr.gc.ca>

India imports whole lentils. Most of the lentils are consumed after dehulling and splitting.

13.7 Pigeon peas



Table 13.12 – Import of pigeon peas (tur) dried & shelled HS Code 07139010

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
MYANMAR	221,001	3,251,065	202,341	3,185,368	223,779	3,765,235	156,694	3,575,619
TANZANIA REP	10,600	193,617	20,563	331,154	10,988	191,884	26,258	528,029
KENYA			248	4,600			15,654	326,679
MALAWI	1,043	13,986	107	1,283	8,013	142,594	10,139	180,935
MOZAMBIQUE	1,988	35,913	3,067	50,039	3,557	60,228	9,413	167,617
UNSPECIFIED			238	3,758			512	11,650
GERMANY							119	2,523
URUGUAY							24	370
AUSTRALIA	1,118	14,771						
CANADA	2,933	37,516						
CHINA P RP	46	822	632	11,872				
IRAN	1,336	18,976						
MALAYSIA	606	8,624	188	2,791	191	3,010		
NEPAL	168	3,031	25	505				
NEW CALEDONIA	22	754						
NEW ZEALAND	573	7,786						
PAKISTAN IR	1,899	29,101	1,399	33,060				
PERU	22	735						
SOUTH AFRICA			25	282				
SWITZERLAND	390	8,185						
THAILAND	85	1,256						
TURKEY	326	7,258						
U ARAB EMTS			3	89				
UZBEKISTAN	519	9,819						
Total	244,674	3,643,215	228,835	3,624,801	246,528	4,162,951	218,813	4,793,422
Average Price Rs. /kg		14.89		15.84		16.89		21.91

Source: APEDA / DGCIIS / Department of Commerce, Government of India

Pigeon peas are imported as whole seeds, dried and shelled. Consumption is, however, only after the peas are dehulled and split.

Dehulled and split pigeon peas are consumed all over India. For a large number of households, spiced soup made of split and dehulled pigeon peas is a regular item of consumption.



Table 13.13 – Production of pigeon peas in main producing countries from 2002 to 2007

	2003	2004	2005	2006	2007
	Tons				
India	2,185,800	2,356,400	2,346,900	2,738,000	2,510,000
Myanmar	485,000	525,000	555,625	535,000	540,000
Kenya	98,280	105,571	96,092	110,662	105,000
Uganda	84,000	84,000	85,000	88,000	89,000
Malawi	116,985	93,084	63,883	79,000	79,000
Tanzania, United Republic of	49,000	49,000	50,000	48,500	48,500
Nepal	25,000	19,468	17,841	19,085	19,245
Dominican Republic	27,173	22,588	16,065	17,000	17,100
Congo, Democratic Republic of	5,550	5,600	5,650	5,700	5,600
Venezuela, Bolivarian Republic	2,652	3,076	1,787	3,015	3,100
Haiti	2,600	2,400	2,600	2,400	2,500
Panama	1,943	1,946	1,949	2,000	2,100
Burundi	1,800	1,800	1,800	1,800	1,800
Philippines		956	1,039	1,258	1,350
Trinidad and Tobago	1,486	1,487	952	1,000	1,100
Bangladesh	2,000	2,000	1,000	1,000	1,000
Jamaica	954	978	584	934	1,000
Grenada	500	500	500	500	530
Comoros	320	320	320	320	320
Puerto Rico	357	192	218	225	230
Bahamas	120	125	125	130	135
Source: FAO					

India is the world's largest producer of pigeon peas. Yet, the country imports large quantities of the commodity. It will not be an exaggeration that the spiced soup from dehulled and split pigeon peas (called "*dal*") is central to Indian cuisine. Across the country, generally speaking, no meal is complete without some form of *dal*.



13.8 Other pulses

Table 13.14 – Import of other beans dried & shelled HS Code 07133990

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
MYANMAR	92,494	1,191,108	108,259	2,053,900	212,925	6,478,455	81,229	2,010,525
TANZANIA REP	8,759	152,779	18,087	296,576	3,509	107,567	17,283	340,631
MALAWI	960	15,712	334	4,907	72	1,329	2,997	51,906
KENYA			520	9,492			1,122	24,220
AUSTRALIA	44	1,226	29	608			975	23,499
CHINA P RP	909	16,881	3,626	76,405	325	8,679	679	23,361
MOZAMBIQUE	1,994	29,629	1,149	14,441	72	1,329	1,095	20,540
BRAZIL					305	9,999	434	13,499
UNSPECIFIED							610	13,187
MADAGASCAR					40	833	421	11,574
U S A	308	4,659	838	13,582	144	8,047	388	7,668
PERU					588	23,978	111	4,300
MALAYSIA					140	4,526	71	2,203
PAKISTAN IR	1,925	28,105	39,069	664,911	744	18,687	50	1,242
AFGHANISTAN TIS					99	3,315		
BELIZE			22	681				
CANADA	31,040	322,976	2	28				
DJIBOUTI			44	707				
ETHIOPIA	281	4,166	680	10,714	66	1,672		
FRANCE	7,999	88,145						
IRAN	1,259	19,338	405	10,276				
LEBANON					1	37		
NEPAL	43	1,065	67	909				
ROMANIA	60	663						
RUSSIA	1,424	20,803	238	2,055				
SINGAPORE					502	16,237		
SRI LANKA DSR					61	840		
TURKEY	115	2,450	64	2,085				
U ARAB EMTS					69	3,538		
UKRAINE	13,871	142,419						
UZBEKISTAN			88	1,794				
Total	163,484	2,042,124	173,521	3,164,071	219,662	6,689,068	107,465	2,548,357
Average Price Rs. /kg		12.49		18.23		30.45		23.71

Source: APEDA / DGCIS / Department of Commerce, Government of India



**Table 13.15 – Import of other leguminous vegetables dried & shelled, other than split
HS Code 07139099**

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
MYANMAR	149,897	2,014,705	197,789	3,962,823	44,741	1,341,187	22,940	601,645
THAILAND	192	2,625	691	16,220	277	9,162	331	8,365
MALAWI	353	4,942					129	2,124
KENYA			138	2,445			70	1,979
CANADA	1,534	16,867			77	2,993	133	1,874
UZBEKISTAN			45	1,418			68	1,852
AUSTRALIA	111	2,179					117	1,679
AFGHANISTAN TIS	20	334						
CHINA P RP	69	877	20	528				
ETHIOPIA					66	1,098		
IRAN	253	3,910						
ITALY					2	38		
JAPAN	1	10						
MALAYSIA	353	4,088	473	6,925				
NEPAL	81	1,976	511	10,808				
PAKISTAN IR	268	3,995	6,514	149,713	44	1,402		
PERU					44	1,858		
TANZANIA REP	1,186	21,583	946	16,294	21	629		
U S A			18	783	137	4,870		
UNSPECIFIED					9	148		
Total	154,318	2,078,091	207,144	4,167,957	45,418	1,363,385	23,787	619,518
Average Price Rs. /kg		13.47		20.12		30.02		26.04
Source: APEDA / DGCIS / Department of Commerce, Government of India								



The drastic fall in imports under the above two categories is indeed strange. This may be a problem caused by wrong classification of some pulses under other category in the past, which has been corrected now.

14. Import of dried fruits

14.1 Dates

Table 14.1 – Import of soft dry dates (khayzur or wet dates) HS Code 08041020



Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
IRAN	169,667	940,563	151,173	1,118,282	181,788	1,694,498	83,638	781,350
U ARAB EMTS	5,063	30,681	5,800	58,670	6,218	89,911	4,670	65,029
OMAN	1,780	27,093	1,023	15,723	1,647	24,317	2,756	44,157
SAUDI ARAB	765	10,435	1,870	29,228	971	22,489	1,819	32,154
PAKISTAN IR	478	6,450	218	2,880	389	2,783	165	1,417
TUNISIA							32	676
ISRAEL							15	303
JORDAN					1	52	1	31
HONG KONG			18	65				
INDONESIA	688	3,983						
Total	178,442	1,019,205	160,101	1,224,848	191,015	1,834,050	93,095	925,116
Average Price Rs. /kg		5.71		7.65		9.60		9.94

Source: APEDA / DGCIS / Department of Commerce, Government of India

Table 14.2 – Production of dates by top dates-producing countries

	2003	2004	2005	2006	2007
	Tons				
Egypt	1,121,890	1,166,182	1,170,000	1,175,000	1,130,000
Iran, Islamic Republic of	885,000	989,626	996,770	1,000,000	1,000,000
Saudi Arabia	884,088	941,293	970,488	970,000	970,000
United Arab Emirates	757,601	760,000	750,000	755,000	755,000
Pakistan	426,822	622,404	496,576	506,623	510,000
Algeria	492,217	442,600	516,293	491,188	468,000
Sudan	328,000	336,000	328,200	330,000	330,000
Iraq	868,000	875,000	404,000	300,000	290,000
Oman	219,770	231,000	247,331	258,738	260,000
Libyan Arab Jamahiriya	200,000	150,000	150,000	170,000	175,000

Source: FAO

Table 14.3 – Import of hard dry dates (chhohara or kharak) HS Code 08041030



Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
PAKISTAN IR	61,931	993,218	72,043	1,144,935	86,562	1,427,097	76,891	1,130,477
OMAN	594	8,458	2,159	29,651	2,113	33,995	2,417	40,178
IRAN	2,343	32,055	1,655	22,550	2,389	34,424	1,603	25,017
SAUDI ARAB	50	756			351	6,852	8	162
JORDAN			1	24				
KOREA RP			18	260				
SOUTH AFRICA					64	1,216		
SRI LANKA DSR					45	753		
U ARAB EMTS	32	542	17	233	1,287	20,630		
UNSPECIFIED					10	193		
Total	64,951	1,035,029	75,892	1,197,653	92,820	1,525,160	80,919	1,195,834
Average Price Rs. /kg		15.94		15.78		16.43		14.78
Source: APEDA / DGCIS / Department of Commerce, Government of India								

Indian production of dates is negligibly small. So, the country imports her complete requirement of dates.

Surprisingly, Egypt, the top producer of dates, finds no place in the list of countries exporting dates to India.

Pakistan takes the top slot in hard dry dates but is at almost the bottom in soft wet dates. Iran has the top position in wet soft dates, but has hardly any presence in the dry dates market. Tunisia, a major dates exporter, does no exports of dates to India.

Dry hard dates import is growing, while soft dates import is almost stagnant.

14.2 Figs dry

Table 14.4 – Import of figs, excluding fresh HS Code 08042090

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
AFGHANISTAN	2,702	189,358	2,393	579,383	51	16,755	3,212	923,514
PAKISTAN IR	26	1,483			3,211	1,012,684	380	118,371
IRAN	460	17,180	173	7,195	375	16,022	54	2,038
TURKEY	31	3,531	4	445	0	33	5	131
CHINA							0	31
HONG KONG							0	6
SYRIA	21	740	20	839				
U ARAB EMTS			4	106				
U K					0	2		
U S A	36	3,799	40	3,003	20	1,710		
Total	3,276	216,091	2,635	590,971	3,657	1,047,206	3,651	1,044,091
Average Price Rs. /kg		65.97		224.29		286.37		285.96

Source: APEDA / DGCIS / Department of Commerce, Government of India

14.3 Raisins

Table 14.5 – Import of raisins HS Code 08062010



Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
AFGHANISTAN	6,579	387,586	6,947	471,399	3,759	240,821	4,051	262,660
PAKISTAN IR	119	3,156	13	593	2,594	191,077	363	22,620
CHINA P RP	78	3,610	171	9,292	286	14,246	263	12,121
THAILAND					6	562	11	933
U S A	53	1,861	5	337	11	1,022	7	555
IRAN	31	601	49	884	58	1,513	9	125
SPAIN							0	5
JAPAN							0	2
SINGAPORE	1	31						
TURKEY					0	11		
U ARAB EMTS	23	628	12	154	8	177		
U K					0	8		
UZBEKISTAN	19	328			19	522		
Total	6,902	397,801	7,197	482,659	6,742	449,959	4,704	299,022
Average Price Rs. /kg		57.63		67.06		66.74		63.57

Source: APEDA / DGCIS / Department of Commerce, Government of India

14.4 Sultanas

Table 14.6 – Import of sultanas and other dried grapes HS Code 08062090



Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
PAKISTAN IR			40	1,351	2,057	169,802	381	14,990
IRAN	53	788	11	140	31	515	14	266
AFGHANISTAN TIS	412	25,062	516	33,042	4	235		
U ARAB EMTS			0	18	41	662		
U S A			0	4				
UNSPECIFIED	5	55						
Total	470	25,905	568	34,555	2,132	171,214	395	15,256
Average Price Rs. /kg		55.17		60.84		80.29		38.62

Source: APEDA / DGCIS / Department of Commerce, Government of India

14.5 Apricots dried

Table 14.7 – Import of dried apricots HS Code 08131000

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
AFGHANISTAN	2,463	150,753	1,376	132,634	981	109,211	2,029	210,793
TURKEY	123	5,739	444	22,995	189	10,395	148	8,015
PAKISTAN IR	81	4,698			1,009	141,743	13	1,721
MALAYSIA							16	841
IRAN	4	199			6	348	13	573
THAILAND							1	34
USA	0	37					0	2
ANTIGUA					7	347		
CHINA P RP			18	810				
NETHERLAND					0	5		
SINGAPORE			0	11				
TANZANIA REP	120	5,855	52	2,031				
U K					0	3		
TOTAL	2,792	167,281	1,890	158,481	2,193	262,052	2,220	221,980
Average Price Rs. /kg		59.90		83.86		119.51		99.99

Source: APEDA / DGCIS / Department of Commerce, Government of India

15. Import of fresh / chilled fruits

15.1 Grapes

Table 15.1 – Import of fresh grapes HS Code 08061000

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
U S A	651	32,060	1,019	55,535	879	52,358	1,712	136,210
AUSTRALIA	342	15,267	311	14,337	738	29,194	386	31,205
CHILE	104	4,345	105	4,537	298	16,061	198	14,123
MEXICO							63	4,789
CHINA P R P			17	1,052			16	1,157
AFGHANISTAN TIS	13	707	6	81			14	172
ITALY					17	1,331		
SOUTH AFRICA	35	1,199	20	1,165	43	2,745		
UKRAINE			18	916				
Total	1,146	53,578	1,496	77,623	1,976	101,689	2,388	187,656
Average Price Rs. /kg		46.74		51.90		51.46		78.59

Source: APEDA / DGCIS / Department of Commerce, Government of India

15.2 Apples

Table 15.2 – Import of fresh apples HS Code 08081000

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
CHILE	1,489	41,641	2,438	68,171	6,441	195,567	14,873	542,525
U S A	8,273	246,589	16,690	473,166	26,057	801,643	12,140	448,824
CHINA P R P	5,623	144,467	5,808	152,187	11,271	313,724	14,040	414,959
NEW ZEALAND	2,712	79,554	2,603	73,390	3,857	118,601	3,456	138,042
AUSTRALIA	1,869	55,358	4,378	126,036	1,265	38,680	1,039	39,196
ITALY	72	2,086	131	4,207			117	5,219
SOUTH AFRICA	1,288	37,127	257	6,993	14	366	100	4,052
NETHERLAND					19	700	0	5
ARGENTINA	142	4,055						
CANADA	27	672	16	498				
FRANCE					57	2,814		
JAPAN	7	326						
MALAYSIA					0	68		
POLAND	66	2,024						
SINGAPORE					1	60		
THAILAND	0	7	0	12	0	25		
U ARAB EMTS	11	606	47	1,225				
U K	43	1,202						
Total	21,622	615,714	32,368	905,885	48,982	1,472,248	45,766	1,592,824
Average Price Rs. /kg		28.48		27.99		30.06		34.80

Source: APEDA / DGCIS / Department of Commerce, Government of India

USA dominated the imported apples market till recently. In 2006-07, USA had 53.20 per cent market share, which reduced to 26.53 per cent in April-December 2007. USA's loss has been Chile's gain. Chile's market share increased from 13.15 per cent in 2006-07 to 32.50 per cent in April-December 2007. China has also increased the market share from 23.01 per cent in 2006-07 to 30.68 per cent in April-December 2007. Shares of New Zealand and Australia have been steady at about 7.5 and 2.5 per cent respectively.



India is the sixth largest producer and consumer of apples in the world. Growth in both production and consumption has been sluggish despite rising incomes. India's per capita apple consumption of about 1.35 kg per year is low relative to other major producing countries

Apple imports have grown rapidly since the removal of quantitative restrictions in 1999, but remain a small component of total consumption. Imports have been rising steadily.

U.S apples imported by India are primarily Washington Red Delicious, with relatively small amounts of Golden Delicious and other varieties. Apples from Australia and New Zealand are mostly Gala or Red Delicious varieties. Chinese apples are primarily of the Fuji variety.

Indian apple imports have followed a clear seasonal pattern, with few imports arriving during the peak domestic harvest and market arrival months of August-November, and rising imports during the domestic lean season of December-July. The bulk of imports arrive during April-June—the final months of the marketing year for domestic apples—but there has been a modest trend toward more imports in earlier months.

India's short apple harvest period, combined with the rapid quality deterioration of domestic apples due to limited use of cold storage, creates a broad window of opportunity for marketing imported apples. In contrast to domestic apples, imported apples maintain their quality largely because of a superior cold chain. Imported apples remain in their refrigerated container until they reach their major urban destination—primarily Mumbai, Delhi, Chennai, or Kolkata—and then, because of their high value, are held in cold storage until they are sold to a wholesaler.

India's seasonal import pattern is consistent with the U.S. and Chinese apple export seasons, which stretch from November to July, and both the United States and China export apples to India throughout this period. By contrast, Australia and New Zealand, southern hemisphere

countries with spring apple harvests and relatively small exportable surpluses, export to India in a narrow window during April-July.

There is a large difference in quality between domestic and imported apples. Because of superior cold chain infrastructure, imported apples arrive in Indian retail outlets in fresh, crisp, and juicy condition throughout the marketing year. Equivalent quality domestic apples, in contrast, are generally available only during the August-November harvest season because they do not benefit from refrigerated storage and transport. In south India and other areas distant from producing regions, the availability of quality domestic apples is even more limited. Imported apples generally look better than domestic apples because of uniformity of size, color, and shape, as well as very low levels of latent damage due to higher quality packing. Although a few Indian growers are now upgrading their practices, domestic apples are typically transported, handled, and stored in poor quality packaging with significantly higher levels of damage to the fruit.

The distinct differences in price and quality between domestic and imported apples are evidence that domestic and imported apples are differentiated products traded in largely separate markets. (Source: Prospects for India's Emerging Apple Market, Satish Y. Deodhar, Maurice Landes and Barry Krissoff)

15.3 Pears and Quinces

Table 15.3 – Import of fresh pears and quinces HS Code 08082000

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
CHINA P RP	1,408	24,602	2,113	33,001	3,574	56,925	3,626	68,993
U S A	694	20,766	1,174	30,537	783	24,179	1,055	45,716
SOUTH AFRICA	679	15,844	659	16,559	605	16,164	709	27,562
AUSTRALIA	148	3,732	443	11,880	461	12,522	111	4,024
CANADA			4	130				
ITALY	22	1,072						
NEPAL					4	24		
SAUDI ARAB			24	755	25	489		
SINGAPORE			1	11				
THAILAND	1	13						
U ARAB EMTS	0	29					5,502	
Total	2,951	66,058	4,419	92,873	5,452	110,303	11,004	146,297
Average Price Rs. /kg		22.39		21.02		20.23		13.30

Source: APEDA / DGCIS / Department of Commerce, Government of India



Pear imports have been increasing in the past three years. India has very low domestic production of pears. So, pear is a relatively new fruit for India.

16. Imports of nuts

16.1 Cashew nuts in shell

Table 16.1 – Import of cashew nuts fresh / dried in shell HS Code 08013100

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
COTE D'IVOIRE	114,505	3,600,484	140,006	5,084,486	199,366	5,878,448	192,214	4,462,866
GUINEA BISSAU	80,854	3,128,177	93,489	4,242,988	69,948	2,242,338	95,972	2,516,705
BENIN	48,255	1,590,012	55,145	2,164,946	69,357	2,199,610	55,616	1,583,434
GHANA	30,702	999,090	31,257	1,217,847	47,797	1,426,017	31,251	767,059
INDONESIA	56,822	2,848,952	67,173	2,571,674	51,692	1,820,310	15,701	591,306
GAMBIA	8,968	328,487	12,498	497,687	24,127	766,123	21,267	531,660
NIGERIA	18,789	503,507	17,170	533,900	21,038	570,236	18,155	403,474
TANZANIA REP	57,609	2,744,506	69,798	2,531,811	59,335	2,009,802	6,459	250,762
SENEGAL	8,001	288,431	6,097	243,700	9,499	296,988	9,704	239,285
GUINEA	429	16,549	4,247	144,793	4,887	133,657	7,462	170,539
MOZAMBIQUE	40,501	1,476,628	33,492	1,161,343	24,038	708,309	1,981	55,931
KENYA	5,336	200,489	4,978	175,806	1,803	57,664	1,507	35,625
SINGAPORE	17	543					763	20,757
ISRAEL							146	4,083
TOGO	612	19,331	2,358	80,547	1,002	29,341	122	3,572
HONG KONG	107	3,260	18	608			84	2,471
PANAMA REP.	50	1,405	75	2,120	149	4,805	99	2,423
BANGLADESH PR	5	91			41	666	73	1,396
SRI LANKA							19	740
U K			1,016	44,426			18	448
BRAZIL	34	2,290						
BURKINA FASO	1,742	43,317	233	8,105				
CAMBODIA			517	20,048				
EL SALVADOR	252	9,162	284	10,601				
FR GUIANA			347	14,192				
MADAGASCAR	2,720	99,711	1,444	40,986	1,458	30,651		
MALAWI	52	1,733						
MYANMAR	73	3,686						
PHILIPPINES	1,359	50,935	753	22,078	247	8,133		
SWEDEN	278	11,133						
THAILAND	594	20,842			108	3,024		
TURKEY			114	5,350				
UNSPECIFIED			98	3,318				
Total	478,665	17,992,751	542,607	20,823,360	585,893	18,186,122	458,613	11,644,537
Average Price Rs. /kg		37.59		38.38		31.04		25.39
Source: APEDA / DGCIS / Department of Commerce, Government of India								

Cashew nuts in shell are imported for processing. A large portion of the imported cashew nuts (after removing the shell) are consumed domestically, while a small portion is exported. Imports are rising on the back of increasing domestic consumption since exports are almost stagnant.

India imports mainly from African countries.

16.2 Almonds

Table 16.2 – Import of almonds fresh / dried in shell HS Code 08021100



Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
U S A	24,809	4,517,668	20,601	5,440,123	33,162	6,192,420	30,298	4,476,516
AUSTRALIA	604	99,159	1,458	335,322	2,445	507,803	4,247	833,392
AFGHANISTAN TIS	964	122,104	1,714	243,711	613	58,612	1,543	142,162
PAKISTAN IR					1,891	206,462	499	40,377
IRAN	47	9,450	23	6,217	30	2,825	26	5,198
U K	22	3,755			5	1,309	12	3,231
CHINA P RP					18	5,686	2	356
MALAYSIA							0	9
AUSTRIA	22	3,525						
BELIZE					20	2,774		
CANADA	20	2,237						
CHILE	173	29,744	286	74,399	41	8,710		
GERMANY			0	15				
JAPAN			2	126				
SOUTH AFRICA					0	39		
SRI LANKA DSR					22	4,648		
SYRIA			31	6,090	1	117		
THAILAND			20	5,729				
U ARAB EMTS	0	20	12	1,101	21	4,449		
UKRAINE			20	5,839				
UNSPECIFIED					20	4,027		
Total	26,661	4,787,662	24,166	6,118,672	38,289	6,999,881	36,626	5,501,241
Average Price Rs./kg		179.58		253.19		182.82		150.20

Source: APEDA / DGCIS / Department of Commerce, Government of India

Indian import of almonds is mainly of almonds with shell. Import of shelled almonds is relatively small. Import is for domestic consumption only.

Almond imports have been rising due to increasing consumption caused by lower prices (aided by stronger rupee) and also due to increasing incomes in India.

India's domestic production of almonds is estimated to be in the range of 1000-1200 tons per

annum (shelled basis). (Source: FAO)

With such a low domestic production, India's dependence on imported almonds is very high.

Imports from Australia have been rising every year. Australian almond production in 2007 totaled greater than 26,500 tons (kernel), more than 65 per cent increase over the previous year's production. Australian almond acreage has increased sevenfold over the past eight years: 3,650 hectares in 1999 to more than 26,000 hectares in 2007. Less than 15 per cent of all Australian almond plantings have reached full maturity. 58 per cent of total Australian almond plantings are non-bearing (less than three years). Future production increases will occur in Australia as young plantings reach full maturity, bringing future productive capacity to 77,000 tons by 2015, a threefold increase over current production. This should help Australia to boost sales to India. (Source: Almond Board of Australia)

Table 16.3 – Import of shelled almonds fresh / dried HS Code 08021200



Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
U S A	245	56,519	481	158,476	2,890	667,809	801	151,564
AFGHANISTAN TIS	1,416	347,699	1,212	286,192	332	93,682	714	168,692
IRAN	708	275,702	757	389,373	978	393,505	566	228,761
SYRIA			150	50,486	789	199,761	348	78,478
AUSTRALIA	0	95			1,147	261,800	260	63,474
PAKISTAN IR					954	237,392	176	46,364
TURKEY	31	9,858	17	4,925	70	18,445	60	16,741
SPAIN			6	3,176	4	1,643	6	2,163
UZBEKISTAN							8	847
U ARAB EMTS	8	3,238	16	4,342	8	4,580	0	14
GERMANY	1	274	0	93				
MALAYSIA	17	4,931						
NETHERLAND			0	149	0			
POLAND	0	4						
Total	2,425	698,320	2,640	897,212	7,172	1,878,617	2,939	757,098
Average Price Rs. /kg		287.93		339.81		261.95		257.61

Source: APEDA / DGCIS / Department of Commerce, Government of India

16.3 Pistachios

Table 16.4 – Import of pistachios fresh / dried HS Code 08025000

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
IRAN	3,246	631,606	3,068	783,550	3,935	1,009,629	3,230	724,094
AFGHANISTAN TIS	1,136	261,123	1,198	304,043	440	172,282	1,337	471,728
U S A	307	38,716	0	4	30	1,772	808	157,600
PAKISTAN IR					1,483	599,916	191	74,790
U ARAB EMTS	202	38,643	85	25,503	162	37,550	28	6,662
U K	4	1,061			5	1,456	10	3,112
TURKEY	10	1,526			0	16	0	40
UKRAINE							0	9
INDONESIA			11	2,397				
ITALY	23	4,510						
KYRGHYZSTAN	9	427						
MALAYSIA					0	14		
NETHERLAND	18	3,012						
OMAN					0	43		
SAUDI ARAB			8	2,437	0	6		
THAILAND			0	9				
UZBEKISTAN	17	2,287						
Total	4,972	982,911	4,369	1,117,943	6,057	1,822,684	5,604	1,438,037
Average Price Rs. /kg		197.68		255.88		300.94		256.63

Source: APEDA / DGCIIS / Department of Commerce, Government of India

The top five pistachio producers globally are Iran, United States of America, Turkey, China and Syria.

Table 16.5 – Production of pistachios in major producing countries from 2003 to 2007

	2003	2004	2005	2006	2007
Production - Tons					
Iran, Islamic Republic of	306,192	184,899	229,657	230,000	230,000
United States of America	53,980	157,397	128,367	107,955	110,000
Turkey	90,000	30,000	60,000	110,000	78,409
China	30,000	32,000	34,000	36,000	38,000
Syrian Arab Republic	47,600	21,200	25,000	27,000	29,000
Greece	7,930	7,917	9,365	6,403	9,000
Afghanistan	2,500	2,310	2,457	2,457	3,000
Italy	1,993	2,400	2,719	2,200	2,000
Tunisia	1,000	1,000	1,000	860	800
Pakistan	195	3,425	597	632	600

Source: FAO

Iran is globally the largest exporter of pistachios. Iranians dominate the market in India.

Paramount Farms, California, USA has been making active efforts to expand the market for pistachios in India. Results of their efforts can be seen in increased imports from USA during Apr-Dec 2007.

16.4 Betel nuts

Table 16.6 – Import of betel nuts, whole HS Code 08029011

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
MYANMAR	2,075	44,771	1,277	27,658	1,230	26,618	4,672	101,189
BANGLADESH PR	1,084	13,234	7,575	114,734	10,141	198,073	4,873	93,460
INDONESIA	14,364	186,549	15,492	198,841	27,769	363,735	2,729	28,672
SRI LANKA DSR	216	6,169	298	9,201	543	26,964	101	3,994
THAILAND	777	11,191	603	8,535	816	11,256	36	393
CHINA P RP			1	13				
KENYA	33	475			22	324		
NEPAL	36	576	208	3,944				
PAKISTAN IR			18	242				
SINGAPORE			16	219	79	1,102		
TANZANIA REP	65	856	112	1,430				
U ARAB EMTS	17	208						
Total	18,667	264,029	25,600	364,817	40,600	628,072	12,411	227,708
Average Price Rs. /kg		14.14		14.25		15.47		18.35

Source: APEDA / DGCIS / Department of Commerce, Government of India

Betel nuts are also called areca nuts.

Table 16.7 – Import of betel nuts, split HS Code 08029012



Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
INDONESIA	7,771	99,161	22,877	287,100	31,251	408,381	1,802	21,913
THAILAND	906	12,236	2,413	31,192	2,816	35,061	68	873
BANGLADESH PR	388	5,747	3	34	288	4,221		
MALAYSIA	64	810			497	6,722		
NEPAL	752	12,032	270	5,350	58	1,114		
SINGAPORE				199	139	1,836		
SRI LANKA DSR	72	2,636	14		68	2,044		
TANZANIA REP			18	228	16	229		
UNSPECIFIED					36	509		
Total	9,953	132,622	25,595	324,103	35,168	460,117	1,870	22,786
Average Price Rs. /kg		13.32		12.66		13.08		12.18

Source: APEDA / DGCIS / Department of Commerce, Government of India

India, China, Myanmar, Bangladesh, Indonesia, Thailand and Sri Lanka are the main producers of areca nuts.

Table 16.8 – Production of betel nuts in major producing countries from 2003 to 2007

	2003	2004	2005	2006	2007
Production - Tons					
India	415,900	439,200	452,700	483,100	520,000
China	159,584	143,368	138,095	141,563	156,000
Myanmar	57,000	57,000	58,000	59,000	60,000
Bangladesh	55,000	55,000	61,000	57,000	58,000
Indonesia	46,800	44,004	50,177	51,882	52,000
Thailand	27,000	56,000	22,000	27,000	27,000
Sri Lanka	15,000	23,830	24,990	24,610	25,870
Bhutan	3,200	3,419	6,616	6,700	7,000
Nepal	3,600	3,768	3,816	3,864	4,000
Malaysia	1,300	1,300	1,300	1,300	1,300
Maldives	38	11	51	333	340
Kenya	90	90	90	90	90

Source: FAO

Betel nuts are consumed in large quantity in India. Betel nuts are consumed either as part of paan, which consists of betel leaf with tobacco, areca nut, slaked lime, and catechu. Betel nuts are also consumed as part of *pan masala*, gutkha, mawa etc. – preparations of betel nuts with tobacco, spices, flavoring materials and other mouth fresheners.

Two varieties of areca nuts are grown in India – white and red. The price for red variety is higher than the white variety. Imports of betel nuts are small in comparison to domestic production in India.

Government of India has been making efforts to discourage imports to protect domestic producers.

Directorate General of Foreign Trade (DGFT) issued a notification in May 2008 allowing import of betel nuts from Myanmar. In a notification dated February 20, 2007, the DGFT had allowed betel nut import only through one port in the country — Mangalore Port. Imports from Myanmar are not subject to port restrictions. Areca nut of Nepalese origin is allowed through Jogbani and Panitanki land customs stations.

According to some sources, areca nut is a forest produce in Indonesia and Myanmar, and the commodity is of poor quality. Prices in India are much higher than the average import prices indicated above. Prices vary according to grade and day-to-day market fluctuations. However, in past few months prices have been in the range of Rs. 80 to Rs. 120 per kg.



Paan - Betel leaf with areca nut pieces and other ingredients

17. Import of preparations of fruits, vegetables etc.

17.1 Prepared / preserved tomatoes

Table 17.1 – Import of prepared / preserved tomatoes HS Code 20029000

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
CHINA P R P	1,852	52,008	3,836	95,986	3,639	98,214	3,784	99,069
NEPAL	218	2,269	4	245	51	1,936	291	8,781
SWITZERLAND					2	705	11	3,804
ITALY	47	1,643	54	2,303	62	2,459	49	1,916
PORTUGAL			2	302			38	1,361
U S A	3	135	6	247	42	773	7	125
AUSTRALIA					4	92	0	20
SINGAPORE	2	87	0	6	0	22	0	9
SPAIN					1	149	0	5
BANGLADESH PR			14	1,078				
EUCADOR	10	146						
GERMANY					0	9		
INDONESIA	0	7						
NETHERLAND			0	3				
PAKISTAN IR			0	23	100	12,808		
SOUTH AFRICA	0	9						
THAILAND					4	206		
TURKEY			0	64				
U ARAB EMTS			1	57	40	1,012		
U K	1	40			2	81		
Total	2,133	56,344	3,918	100,314	3,947	118,466	4,180	115,090
Average Price Rs. /kg		26.41		25.61		30.01		27.53
Source: APEDA / DGCIS / Department of Commerce, Government of India								



Under the category of prepared / preserved vegetables, tomato paste / puree is imported. China, which is emerging as world leader in this category, dominates the Indian market with over 90 per cent of the market.

Indian imports are a miniscule percentage of domestic consumption of tomato products.

17.2 Prepared / preserved frozen potatoes

Table 17.2 – Import of prepared / preserved frozen potatoes HS Code 20041000

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
U S A	1,024	58,408	1,898	89,712	2,617	119,112	2,556	112,688
NEW ZEALAND	449	16,834	729	28,888	1,015	43,040	697	30,177
NETHERLAND	827	31,052	1,560	55,589	1,779	79,368	120	6,807
CHINA P R P	12	1,460	11	852	24	651	47	1,878
CANADA	199	7,665	261	12,203	236	12,281	33	1,665
BANGLADESH PR	71	3,485	206	6,435	17	1,461	12	799
ITALY	182	19,372					14	517
SINGAPORE	1	57	0	19	12	431	8	477
NEPAL					1	11	4	474
GERMANY	97	5,038	19	956			2	385
U K			7	495	14	758	1	380
SPAIN	6	503	16	1,040	12	866	4	249
MALAYSIA							1	83
THAILAND	8	1,039			0	1	0	43
AUSTRALIA							0	10
U ARAB EMTS			0	16	1	20	0	6
BELGIUM			23	870				
CHILE					72	2,106		
JAPAN					66	3,394		
LEBANON					8	501		
Total	2,876	144,913	4,731	197,075	5,872	264,001	3,500	156,637
Average Price Rs. /kg		50.39		41.66		44.96		44.76

Source: APEDA / DGCIS / Department of Commerce, Government of India



USA has the largest share of frozen potato products imports into India.

Frozen potato products are imported for use by new Western-style restaurant chains that are coming up in India.

17.3 Orange juice

Table 17.3 – Import of orange juice frozen HS Code 20091100

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
BRAZIL	788	42,422	1,217	64,913	1,024	82,268	587	46,826
PAKISTAN IR					599	44,418	150	17,840
DENMARK							45	3,204
SINGAPORE	2	65	2	139	15	1,523	27	2,040
ISRAEL	18	851	46	1,866	105	6,505	18	1,500
U K	6	344	18	1,084	80	1,382	10	768
U ARAB EMTS	32	1,000	8	624	7	347	6	459
TURKEY							3	240
SAUDI ARAB	1	420			6	448	1	190
BELGIUM	71	3,844	18	940				
CANADA	2	55						
CHINA P RP			1	54	54	888		
GERMANY	6	329			0	1		
HUNGARY			1	15				
MYANMAR			80	3,799				
NEPAL	1,326	26,426						
NETHERLAND	135	7,579	129	9,210	311	20,578		
PHILIPPINES	108	3,530	120	4,775	28	1,400		
THAILAND	24	1,184	41	1,016	0	21		
Total	2,520	88,049	1,681	88,435	2,230	159,779	846	73,067
Average Price Rs. /kg		34.94		52.61		71.64		86.34

Source: APEDA / DGCIS / Department of Commerce, Government of India



Brazil and USA are the leading producers of oranges. Surprisingly, USA does not sell orange juice to India. Probably the market size is too small to interest large US corporations.

17.4 Apple juice

Table 17.4 – Import of apple juice value >20 HS Code 20097900

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
CHINA P RP	260	13,083	1,125	45,474	3,109	134,365	2,683	120,705
ISRAEL							151	8,001
SOUTH AFRICA					1	138	20	1,656
GERMANY	17	1,219	46	2,558	73	4,473	21	1,630
SINGAPORE			4	257	5	835	15	1,302
AUSTRALIA	7	477	17	1,049	77	1,480	10	916
FRANCE					5	552	6	667
U ARAB EMTS	54	4,547	27	1,919	144	10,040	10	597
U S A	13	388	3	226	2	66	7	402
U K	3	180	15	403	13	1,017	7	367
POLAND					4	283	4	282
NETHERLAND			17	1,580	3	81	3	236
TAIWAN			1	44	21	140	2	145
MALAYSIA			0	70	5	227	2	144
THAILAND	0	18			0	30	2	87
JAPAN							0	57
BELGIUM							2	51
KUWAIT							1	30
HONG KONG							0	25
SAUDI ARAB					3	353	0	12
DENMARK					0	47	0	1
AUSTRIA					0	53		
BRAZIL			58	2,283				
CANADA	0	21						
ITALY	0	2						
KOREA RP			3	137	0	37		
NEPAL	46	1,370						
SPAIN			1	100	4	322		
SRI LANKA DSR					1	60		
SWITZERLAND	95	2,974						
TURKEY			0	33				
VIETNAM SOC REP	2	327			0	29		
Total	498	24,606	1,318	56,133	3,469	154,628	2,945	137,315
Average Price Rs. /kg		49.39		42.60		44.57		46.63

Source: APEDA / DGCIS / Department of Commerce, Government of India

China, a world leader in apple juice exports, dominates India's imports of apple juice.

Indian imports are very small. Growth in percentage terms may appear significant since the base is small.

17.5 Other fruit juices

Table 17.5 – Import of other fruit juices HS Code 20098090

Country	2004-05		2005-06		2006-07		Apr 07 - Dec. 07	
	Qty.	Value	Qty.	Value	Qty.	Value	Qty.	Value
	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000	Tons	Rs. '000
MALAYSIA	507	22,918	626	30,142	669	40,360	428	28,296
U S A	436	31,354	343	19,525	484	39,075	392	28,248
U ARAB EMTS	39	3,628	54	3,434	251	14,151	425	21,577
NETHERLAND	34	1,862	11	655	40	3,446	81	10,426
BRAZIL	1	286			0	142	92	9,927
SOUTH AFRICA	129	7,400	154	9,548	192	14,102	119	9,673
THAILAND	100	4,354	106	9,005	90	8,920	107	9,121
U K	12	933	21	655	63	2,237	95	3,576
OMAN	117	4,522	89	4,738	14	502	76	3,346
BANGLADESH PR	1,337	18,026	260	3,883	188	4,035	36	3,084
CHINA P RP	5	192	91	2,654	19	1,632	65	2,988
IRAN					44	1,554	74	2,785
BELGIUM	0	1					19	2,196
BHUTAN					47	1,226	50	1,627
KOREA RP	0	22	5	256	43	1,701	23	1,598
SINGAPORE	16	1,070	2	439	3	264	10	1,440
SAUDI ARAB	7	869			2	297	18	1,367
ARGENTINA							17	1,179
TAIWAN	22	353	8	840	9	1,021	9	848
KUWAIT					7	342	7	588
GERMANY	21	1,257	5	341	11	485	2	360
NEPAL	999	33,026	412	7,055	558	22,369	11	352
SPAIN	19	1,024	22	2,203	3	1,139	7	333
INDONESIA	22	977	23	975			4	300
FRANCE							0	267
VIETNAM SOC REP	1	10			4	615	1	193
AUSTRIA	0	4	0	13			5	180
HONG KONG							1	166
DENMARK	20	367					2	121
AUSTRALIA	40	2,907	35	1,942	12	1,277	1	113
UNSPECIFIED							1	90
NEW ZEALAND	2	103	4	145	1	110	1	84
SRI LANKA DSR			1	33	2	139	1	68
SWITZERLAND	0	2	0	222	0	39	0	66
TURKEY			20	509	0	23	1	63
ITALY	0	3	0	23	19	3,210	0	26
EGYPT ARP							0	5
UKRAINE							0	4
JAPAN	1	28	3	1,561	0	25	0	3
PHILIPPINES	6	740	5	737	1	156		
POLAND					0	2		
Total	3,892	138,238	2,300	101,533	2,777	164,596	2,182	146,687
Average Price Rs. /kg		35.52		44.14		59.28		67.24

Source: APEDA / DGCIIS / Department of Commerce, Government of India

18. Summary

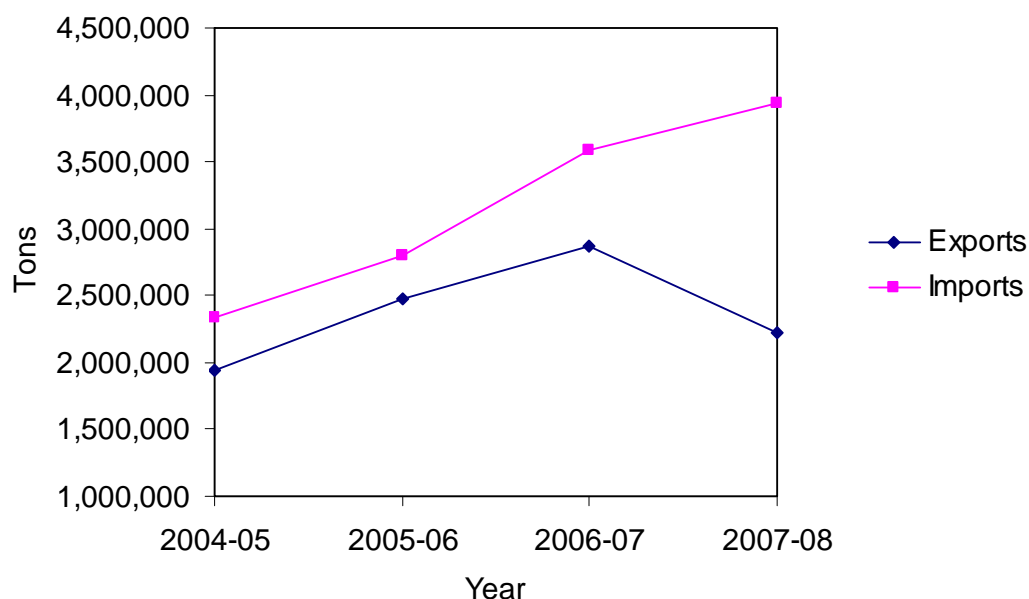
18.1 Overview

Table 18.1 – Summary of Imports and exports during 2004-05 to 2007-08

	2004-05		2005-06		2006-07		2007-08*		Chapter	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exp	Imp
Vegetables, fresh	1,001.3		1,128.5		1,603.0		1,106.5		4	-
Vegetables, frozen	26.1		18.2		15.9		16.0		5	
Vegetables prepared	160.3		264.3		310.3		228.0		6	
Vegetables, dried	23.5		36.6		37.1		84.9		7	
Fruits, fresh	216.0	26.5	265.6	40.2	309.4	59.5	249.1	84.2	8	15
Nuts	128.0	541.3	148.6	625.0	143.1	713.2	117.8	690.8	9	16
Pulses	271.1	1,502.9	439.2	1,869.8	250.9	2,490.6	196.2	2,895.1	10	13
Dry fruits		256.8		248.3		298.6		246.6		14
Fruit / veg products	118.7	11.9	168.7	13.9	193.0	18.3	226.8	18.2	11	17
TOTAL	1,945	2,340	2,470	2,797	2,863	3,580	2,225	3,935		
* Annualized from April-December 2007 data by multiplying with 4/3							Chapter refers to chapter of this report			
All values are quantities in '000 Tons										
Compiled by HS&SL from data sourced from APEDA / DGCIS / Minsitry of Commerce, Government of India										

India imports more fruits and vegetables than she exports. Moreover, exports have been falling while imports have been rising.

Chart 18.1 – Change in export and import of fruits and vegetables



One reason for fall in exports is restrictions imposed on exports. Government of India has prohibited exports of many commodities while imports have been made duty-free in many cases.

Government policies reflect the macro-economic fundamentals. Higher incomes have led to increased domestic consumption, which is putting pressures on demand-supply equations causing prices to rise. Government is forced to act in response to rising pressures to avoid any political fallout. As Indian economy continues on the path of 7-9 per cent per annum growth, the demand will continue to increase. Since horticultural production is not rising at any comparable rate, shortages are bound to happen forcing the government to put clamps on exports and encourage imports.

18.2 Vegetables, fresh

Table 18.2 – Exports of vegetables, fresh / chilled during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
07019000	Potatoes	65,996	74,534	89,025	66,484
07020000	Tomatoes	7,446	11,743	33,593	70,544
07031010	Onions	870,217	960,507	1,378,373	625,346
07032000	Garlic	2,248	32,495	12,211	172
07096010	Green chilly	7,952	8,765	18,188	20,343
07099050	Other vegetables - mixed veg.	28,833	22,768	50,993	33,336
07099090	Other vegetables	18,566	17,664	20,613	13,681
Total Fresh or Chilled Vegetables		1,001,260	1,128,477	1,602,995	829,905

Source: APEDA / DGCIS / Department of Commerce, Government of India

India does not import any significant quantity of fresh / chilled vegetables.

As can be seen from the above table, onion is the most important vegetable in India's export basket of fresh / chilled vegetables. Government of India has been tinkering with Minimum Export Price of onions to keep exports under check. This has lowered onion exports during 2007.

18.3 Vegetables, frozen

Table 18.3 – Exports of vegetables, frozen during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
07108090	Frozen vegetables	986	1,232	2,509	1,787
20049000	Other frozen vegetables	3,975	4,934	3,159	3,378
07109000	Mixtures of vegetables	21,152	12,081	10,270	6,844
Total Frozen Vegetables		26,113	18,247	15,938	12,009

Source: APEDA / DGCIS / Department of Commerce, Government of India

Exports of frozen vegetables are not large. Exports are not growing.

India does not import any significant quantity of frozen vegetables.

18.4 Vegetables, prepared / preserved

Table 18.4 – Exports of vegetables, prepared / preserved during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
07114000	Cucumbers & gherkins	43,135	85,777	89,509	44,913
20011000	Gherkins in acetic acid	71,976	135,382	145,216	84,521
20031000	Mushrooms without acetic acid	24,432	12,469	24,790	1,849
20051000	Homogenized veg w/o acetic ac.	59	599	1,878	2,658
20059000	Veg. and mixtures w/o acetic ac.	3,295	9,030	14,078	7,398
20019000	Preserved by acetic acid	17,380	20,999	34,803	29,634
Total Prepared / Preserved Vegetables		160,276	264,254	310,273	170,972

Source: APEDA / DGCIS / Department of Commerce, Government of India

There has been some growth in this category. Categories like Homogenized vegetables have made their mark starting from virtually zero. Pickles in oil as well as vinegar are also growing. Gherkin exports have almost doubled up from 2004-05 figures.

All the above products are value-added products which involve inputs of know-how, technical knowledge and skilled manpower. These are not commodity products traded on commodity exchanges. Growth in export of these products indicates that Indian food industry is maturing and is able to make its mark in segments that require expertise.

India does not import any significant quantity of prepared / preserved vegetables.

18.5 Vegetables, dried

Table 18.5 – Exports of vegetables, dried during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
07122000	Dried onions	17,837	26,879	24,182	53,635
07123100	Dried mushrooms	107	129	114	60
08134010	Dried tamarind	5,532	9,619	12,853	9,959
Total Dried Vegetables		23,476	36,627	37,149	63,654

Source: APEDA / DGCIS / Department of Commerce, Government of India

Dehydrated products are also value-added products. Dehydrated onions from India are making their mark in global markets, though dried mushrooms seem to be struggling. Indian dried tamarind exports have more than doubled up in the past four years even though tamarind is a specialty product.

India does not import any significant quantity of dried vegetables.

18.6 Fruits, fresh / chilled

Table 18.6 – Exports of fruits, fresh / chilled during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
08030000	Bananas	12,818	14,411	11,476	12,118
08045020	Mangoes	53,480	69,607	79,061	51,233
08051000	Oranges	31,528	36,488	30,110	17,105
08055000	Lemons & limes	10,523	11,099	13,033	11,124
08059000	Other citrus fruits	11,379	4,743	10,522	5,594
08061000	Grapes	38,898	53,908	85,563	22,283
08072000	Papayas	3,701	6,434	10,344	7,274
08081000	Apples	23,225	30,044	25,971	31,157
08109010	Pomegranates	14,040	19,652	21,670	15,472
08109090	Other fresh fruits	10,480	9,207	7,029	5,099
08045090	Other guavas / mangoes	5,945	10,007	14,594	8,348
Total Fresh or Chilled Fruits		216,018	265,599	309,374	186,806

Source: APEDA / DGCIS / Department of Commerce, Government of India

Grapes, mangoes, oranges, apples and pomegranates are mainly exported from India. Grape and pomegranate exports have increased substantially in the past years. Mango exports have also grown. Oranges are almost stagnant, while increase in case of apples is nominal.

Table 18.7 – Imports of fruits, fresh / chilled during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
08051000	Oranges	734	1,556	2,595	2,904
08061000	Grapes	1,146	1,496	1,976	2,388
08081000	Apples	21,622	32,368	48,982	45,766
08082000	Pears	2,951	4,419	5,452	11,004
08109010	Pomegranates	21	274	139	833
08109090	Other fresh fruits	68	105	387	274
Total Fresh or Chilled Fruits		26,543	40,216	59,531	63,169

Source: APEDA / DGCIS / Department of Commerce, Government of India

Apple is the main fresh fruit imported into India. Pears have made their mark in the past four years with volumes growing to almost four times. Growth in case of grapes and oranges has not been as remarkable though in percentage terms growth of import of these two fruits is also noticeable.

Pomegranate imports are interesting because India has emerged as a significant exporter of pomegranates.

In overall terms, both imports and exports have grown. Imports have been growing faster than exports, though the base is much smaller. Moreover, Indian consumer has shown his willingness to experiment with new fruits such as pears.

18.7 Nuts

Table 18.8 – Exports of nuts during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
08013100	Cashew nuts in shell	15	129	1,655	435
08013210	Cashew kernels broken	13,070	10,478	8,965	4,673
08013220	Cashew kernels whole	104,787	114,271	112,092	77,073
08023200	Shelled walnuts	5,593	5,077	4,686	3,863
20081100	Groundnuts	4,509	18,694	15,731	2,330
Total Nuts		127,975	148,649	143,128	88,374

Source: APEDA / DGCIS / Department of Commerce, Government of India

Cashew nut, whole / broken is the main nut exported from India. HPS groundnuts come next, followed by shelled walnuts. Export of HPS groundnuts are linked to crop of groundnuts in the state of Gujarat. A dip in April-December 2007 should not be taken as an indication of overall trend.



Table 18.9 – Imports of nuts during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
08013100	Cashew nuts in shell	478,665	542,607	585,893	458,613
08021100	Almonds in shell	26,661	24,166	38,289	36,626
08021200	Almonds shelled	2,425	2,640	7,172	2,939
08025000	Pistachios	4,972	4,369	6,057	5,604
08029011	Betel nuts, whole	18,667	25,600	40,600	12,411
08029012	Betel nuts, split	9,953	25,595	35,168	1,870
Total Nuts		541,343	624,979	713,178	518,063

Source: APEDA / DGCIS / Department of Commerce, Government of India

Indian imports of nuts are far in excess of exports. In other words, most of the nuts are imported for domestic consumption.

Cashew nuts occupy the top place in imports statistics. Surely, cashew nuts are the most commonly consumed tree nut in India.

Exports grew in 2005-06 over the previous year, but seem to have stagnated after that. On the other hand, imports have continued to grow.

18.8 Pulses

Table 18.10 – Exports of pulses during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
07132000	Chick peas	13,603	44,060	61,304	139,390
07134000	Lentils (Mosur)	145,185	281,276	121,010	49
07139010	Pigeon peas (Tur)	25,005	25,391	22,662	216
07133990	Other beans	2,867	3,827	3,091	6,232
07139091	Other legumes, split	7,284	9,883	7,552	406
07139099	Other legumes, not split	77,117	74,742	35,317	844
Total Pulses		271,061	439,180	250,936	147,137

Source: APEDA / DGCIS / Department of Commerce, Government of India

The effect of ban imposed by Government of India on export of pulses can be seen. Chick peas exports have continued to grow, while exports of all other pulses have dropped.



Table 18.11 – Imports of pulses during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
07131000	Peas	654,872	810,069	1,388,577	1,225,063
07132000	Chick peas	132,875	281,756	127,318	77,815
07133100	Green & black beans	83,965	74,990	332,414	277,112
07133200	Small red beans	14,348	13,397	11,819	491
07133300	Kidney beans	27,216	42,024	56,632	25,869
07134000	Lentils (Mosur)	26,685	36,114	58,935	210,442
07139010	Pigeon peas (Tur)	244,674	228,835	246,528	218,813
07133990	Other beans	163,484	173,521	219,662	107,465
07139091	Other legumes, split	489	1,996	3,325	4,484
07139099	Other legumes, not split	154,318	207,144	45,418	23,787
Total Pulses		1,502,927	1,869,847	2,490,628	2,171,340

Source: APEDA / DGCIS / Department of Commerce, Government of India

Imports of all pulses have grown. When one looks at an annualized basis, pulses imports during 2007-08 are almost double of the imports during 2004-05.

India has huge installed capacity for processing of pulses. This enables Indian traders to import whole pulses. Dehulling and splitting of pulses is almost completely carried out in small units located all over the country. Import of split pulses is less than 0.25 per cent of total pulses imports.

18.9 Dry fruits

Table 18.12 – Imports of dry fruits during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
08041020	Soft dates	178,442	160,101	191,015	93,095
08041030	Hard dates	64,951	75,892	92,820	80,919
08042090	Figs not fresh	3,276	2,635	3,657	3,651
08062010	Raisins	6,902	7,197	6,742	4,704
08062090	Sultanas	470	568	2,132	395
08131000	Apricots dried	2,792	1,890	2,193	2,220
Total dried fruits		256,833	248,284	298,558	184,984

Source: APEDA / DGCIS / Department of Commerce, Government of India

Imports of dry fruits are stable. No significant change is expected in the above scenario in near future. India does not export any significant quantity of dry fruits.

18.10 Products of fruits / vegetables

Table 18.13 – Exports of products of fruits during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
08045030	Mango slices dried	4,008	3,036	2,991	4,910
08129010	Mango slices in brine	7,031	3,287	5,216	4,062
08045040	Mango pulp	95,857	134,613	156,836	130,443
20079910	Jams etc. of mangoes	5,736	19,294	21,086	23,947
20079990	Jams etc. of other fruits	3,451	5,512	4,432	4,048
20098090	Juices of other fruits	2,620	2,940	2,458	2,706
Total Fruit Products		118,703	168,683	193,018	170,115

Source: APEDA / DGCIS / Department of Commerce, Government of India

Table 18.14 – Imports of products of fruits / vegetables during 2004-05 to Apr-Dec 2007

HS Code	Product	2004-05	2005-06	2006-07	Apr-Dec 07
		Qty.	Qty.	Qty.	Qty.
		Tons	Tons	Tons	Tons
20029000	Prepared / preserved tomatoes	2,133	3,918	3,947	4,180
20041000	Preprd / presrvd frzn potatoes	2,876	4,731	5,872	3,500
20091100	Orange Juice Frozen	2,520	1,681	2,230	846
20097900	Apple Juice value>20	498	1,318	3,469	2,945
20098090	Other fruit juices	3,892	2,300	2,777	2,182
Total Fruit / Vegetable Products		11,919	13,948	18,295	13,652

Source: APEDA / DGCIS / Department of Commerce, Government of India

In this category of value-added products, imports are growing at a slow pace, while exports are galloping.

19. Conclusions and Observations

- ▶ India does not import any significant quantity of fresh / chilled vegetables.
- ▶ Onion is the most important vegetable in India's export basket of fresh / chilled vegetables.
- ▶ Exports of frozen vegetables are not large and are not growing. India does not import any significant quantity of frozen vegetables.
- ▶ There has been growth in the category of prepared / preserved vegetables (including pickles). Categories like Homogenized vegetables have made their mark starting from virtually zero.
- ▶ Gherkin exports have almost doubled up from 2004-05 figures.
- ▶ Dehydrated onion exports have grown to almost three-times the figure of 2004-05.
- ▶ Dried mushrooms have failed to make a mark in exports and are falling.
- ▶ Dried tamarind exports have more than doubled in four years.
- ▶ In 2006-07, grapes had the largest volume of exports among all fresh fruits. The volumes of 2006-07 were more than double of the volumes in 2004-05.
- ▶ In 2006-07, mango exports were the second largest item in fresh fruits export basket. Export volumes of 2006-07 were almost 48 per cent higher than the quantity of mangoes exported in 2004-05.
- ▶ Pomegranate exports have increased by about 50 per cent from 2004-05 to 2006-07.
- ▶ Pomegranates imports seem to be catching up. While in 2004-05 import volumes were just 21 tons, in nine months of 2007 volumes crossed 800 tons. Of course, this is negligible compared to more than 21,000 tons that were exported in 2006-07.
- ▶ Apples top India's list of fresh fruits import. India's import of apples has more than doubled from 2004-05 to 2006-07.
- ▶ Pears imports seem to have really caught on. From less than 3000 tons in 2004-05, imports of pears have in only nine months of 2007 crossed 11,000 tons.
- ▶ Import of oranges has increased to almost four-fold from the level in 2004-05.

- ▶ Cashew nut exports are stagnant or display a negative gradient, while cashew imports have been rising at about 10-15 per cent per annum. In 2006-07, cashew exports were just about 20 per cent of imports in quantity terms, making cashew the largest consumed nut in India.
- ▶ Almond imports increased by almost 56 per cent from 2004-05 to 2006-07.
- ▶ Betel nuts / areca nuts imports grew till 2006-07. However, restrictions put by government have dampened imports after that.
- ▶ Indian export of pulses was growing till 2005-06. Ban on exports has put brakes on pulses exports.
- ▶ While exports of pulses have been banned, imports have been relaxed leading to a spurt in imports. On an annualized basis, India is likely to have imported about 2.9 mio tons of pulses during 2007-08, which is almost 90 per cent higher than the imports during 2004-05.
- ▶ India imports dry fruits like dates, figs, raisins, sultanas and dried apricots. Volumes are steady and in near future, are likely to remain in the range of about 250,000 to 300,000 tons. India does not export dried fruits.
- ▶ Mango pulp is the most important fruit product exported from India. Quantity of mango juice exported has increased by more than 50 per cent since 2004-05. In 2006-07, exports were 156,836 tons.
- ▶ Mango jam, jelly etc. exports have also been growing at a fast pace. From only 5,736 tons in 2004-05, volumes crossed 21,000 tons in 2006-07.
- ▶ Exports of products made from fruits other than mango have remained stagnant with low growth rate.
- ▶ Indian imports of products made from fruits / vegetables are less than 20,000 tons per annum.
- ▶ **It can be concluded that as far as commodities (agricultural products with low value addition) are concerned, India imports more than she exports and volumes of imports are growing at a much higher rate than the growth rate for exports.**
- ▶ **In case of value-added products, the situation is opposite. Exports are much larger than imports and are growing at a fast rate, while imports are inching forward.**

Annexure A – Definitions & Abbreviations

Term	Meaning or Explanation
Bio	Billion
Mio	Million
n.e.s	Not Elsewhere Specified
FRZN	Frozen
PRPD	Prepared
PRSVD	Preserved
W/N	Whether or not
n/a	Not Available
APEDA	Agricultural and Processed Food Products Export Development Authority (India)
DGCIS	Directorate General of Commercial Intelligence & Statistics
DGFT	Director General of Foreign Trade
HS Code	Harmonized System of Code
MEP	Minimum Export Price
MOFPI	Ministry of Food Processing Industries, Government of India
EOU	Export Oriented Unit
USDA	United States Department of Agriculture
EU	European Union
CNSL	Cashew nut shell liquid
HPS	Hand picked selected (used with groundnuts)

Currencies

Rs. / INR	Indian Rupees
USD	US Dollar
GBP	British Pound
JPY	Japanese Yen
CHF	Swiss Franc
AUD	Australian Dollar
HKD	Hong Kong Dollar
SGD	Singapore Dollar
CAD	Canadian Dollar

Financial Year in India is from 1 April to 31 March. So, year 2005-06 refers to the period from 1 April 2005 to 31 March 2006

Annexure B – Sources of Information

- Agricultural and Processed Food Products Export Development Authority, (Ministry of Commerce, Govt. of India), NCUI Building, 3, Siri Institutional Area, August Kranti Marg, New Delhi - 110 016 - <http://www.apeda.com/>
- Agriculture and Agri-Food Canada, <http://www.agr.gc.ca>
- Australian Almond Industry - Strategic Plan 2007-2012, Almond Board of Australia, <http://www.aussiealmonds.com>
- Cashew Export Promotion Council of India, PB 1709, Chittoor Road, Ernakulam, Cochin 682 016, Kerala, <http://www.cashewindia.org/>
- Coconut Development Board, Kera Bhavan, SRVHS Road, Kochi, Kerala State – 682011, <http://coconutboard.nic.in/>
- Department Of Commerce, Ministry of Commerce & Industry, Government Of India - <http://commerce.nic.in/eidb/Default.asp>
- Department of Agriculture and Cooperation, Ministry of Agriculture, Government of India, <http://agricoop.nic.in/>
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Annexure C – Map of India



Annexure D - Profiles

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