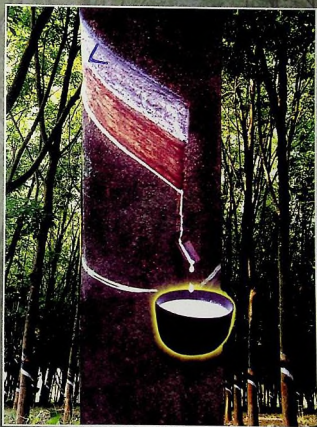




# INDIAN RUBBER STATISTICS



Volume 27

2004



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# **INDIAN RUBBER STATISTICS**

Volume 27

2004

*compiled by*

**THE STATISTICS & PLANNING DEPARTMENT**

**THE RUBBER BOARD**

**(MINISTRY OF COMMERCE & INDUSTRY, GOVT. OF INDIA)**

**KOTTAYAM-686002, INDIA**

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वि. वि.  
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## ABOUT THE RUBBER BOARD

The Rubber Board is a statutory body constituted under the Rubber Act, 1947.

The functions of the Board as defined under the Act are: (1) To promote by such measures as it thinks fit the development of the rubber industry; (2) without prejudice to the generality of the foregoing provision the measures referred to therein may provide for: - (a) undertaking, assisting or encouraging scientific, technological and economic research; (b) training students in improved methods of planting, cultivation, manuring and spraying; (c) the supply of technical advice to rubber growers; (d) improving the marketing of rubber; (e) the collection of statistics from owners of estates, dealers and manufacturers; (f) securing better working conditions and the provision and improvement of amenities and incentives to workers and (g) carrying out any other duties which may be vested with the Board under rules made under this Act.

It shall also be the duty of the Board - (a) to advise the Central Government on all matters relating to the development of the rubber industry, including the import and export of rubber; (b) to advise the Central Government with regard to participation in any international conference or scheme relating to rubber; (c) to submit to the Central Government and such other authorities as may be prescribed half yearly reports on its activities and the working of this Act and (d) to prepare and furnish such other reports relating to the rubber industry as may be required by the Central Government from time to time.



## FROM THE CHAIRMAN

The importance of accurate and authentic statistics in scientific planning of any industry especially in the post reforms era needs no emphasis. Considering its vital role in the planned growth and development of the Indian rubber sector collection of rubber statistics is defined under the Rubber Act as one of the basic functions of the Rubber Board. This publication, *Indian Rubber Statistics* has been compiled from the statistics thus collected.

Ever since the publication of the first issue in 1958, Indian Rubber Statistics has been acclaimed for its reliability, comprehensive coverage and constant improvement in quality and presentation of data. Because of the overwhelming demand from various users, the publication of Indian Rubber Statistics, which was not regular till 1995, has been made regular from 1996 onwards. This issue of Indian Rubber Statistics is the 27<sup>th</sup> in the series.

The 'Rubber Statistical News' (monthly) is another publication of the Board which provides the latest statistics of production, consumption, import, export, price, etc. of rubber. Apart from the Board's own statistics, the statistics compiled from various other sources has also been published in this volume as indicated in the tables.

While acknowledging the continued and the generous co-operation extended by various stakeholders of the Indian rubber industry and various organizations / departments such as IRSG, ANRPC, DGC & S, ATMA, ACMA and CAPEXIL, valuable suggestions and constructive criticisms for making this publication still more valuable and user-friendly are solicited. I would like to acknowledge that the constant improvement in the coverage and the presentation of this publication has been immensely contributed by the valuable suggestions received from industry organizations such as ATMA.

I also wish to record my appreciation for the valuable service rendered by the Joint Director and her team of officers in Statistics & Planning Department in compiling the publication.

Kottayam,  
29/9/2004.

**S.M.Desalphine, I.A.S.**  
Chairman

The importance of accurate and reliable data is self-evident. It is the only way to make sound decisions and to avoid the costly mistakes that can result from poor data. The data that we collect and analyze is the basis for all of our decisions. It is the only way to know the truth and to make the right decisions. The data that we collect and analyze is the basis for all of our decisions. It is the only way to know the truth and to make the right decisions.

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## ***IN RETROSPECT***

### **1. Area , production and productivity of Natural Rubber**

The Indian rubber plantation industry was in a resurgent mode during 2003-04. Area under rubber increased from 569,660 hectares during 2002-03 to 574,000 hectares (provisional) during 2003-04. The country's natural rubber (NR) production grew by 9.6 percent during 2003-04 and this was the highest growth attained since 1994-95. The production in the year was 711,650 tonnes as compared to 649,435 tonnes in 2002-03. Various factors could be attributed to the robust growth in production, the key factor being improved prices of NR. Expansion in the tapped area of NR plantations, conducive climatic conditions, and better adoption of agro-management and crop harvesting practices by the growers were other major factors for the increased production. As a result of the favourable factors, the national average productivity had increased from 1592 kg per ha. in 2002-03 to 1663 kg per ha in 2003-04, maintaining the highest productivity in the world.

### **2. Consumption**

The consumption of NR increased by 3.5 per cent during 2003-04 to reach 719,600 tonnes from 695,425 tonnes during the previous year. The growth in consumption during 2002-03 was 9.0 per cent. Segregating the growth into the tyre sector and the general rubber goods sector, it is seen that the consumption in the tyre sector had grown by 7.1 per cent whereas that in the general rubber goods sector had registered a negative growth of 0.3 per cent.

### **3. Production and Consumption of Synthetic Rubber (SR)**

The production of synthetic rubber (SR) in the country was 88,366 tonnes during 2003-04 registering 9.9 percent increase compared to the production of 80,401 tonnes during the previous year. Consumption of SR by the Rubber goods manufacturing industry in the country was 210,190 tonnes during 2003-04, with an increase of 7.9 percent over the consumption of 194,850 tonnes



during 2002-03. The relative use of NR and SR by the industry was 77:23 during 2003-04 as against 78:22 during 2002-03.

Details of consumption of NR and SR during 2003-04 and 2002-03 are summarised in the following table:

**Consumption of NR and SR**  
(tonnes)

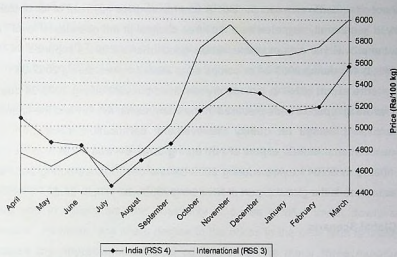
	2002-03	2003-04	Growth (%)
<b>Natural Rubber</b>			
Auto tyres & tubes	353032	378185	7.1
General rubber goods sector	342393	341415	-0.3
<b>Total</b>	<b>695425</b>	<b>719600</b>	<b>3.5</b>
<b>Synthetic Rubber</b>			
Auto tyres & tubes	107483	119367	11.1
Other goods	87367	90823	4.0
<b>Total SR</b>	<b>194850</b>	<b>210190</b>	<b>7.9</b>
<b>NR &amp; SR</b>			
Auto tyres & tubes	460515	497552	8.0
Other goods	429760	432238	0.6
<b>Total NR &amp; SR</b>	<b>890275</b>	<b>929790</b>	<b>4.4</b>

#### 4. Prices

As regards prices of natural rubber, RSS 4 averaged at Rs.5040 per 100 kg during 2003-04 with the minimum of Rs.4453 in July 2003 and the maximum of Rs.5567 in March 2004. Indian price (RSS 4 at Kottayam) which was higher than the international price (RSS 3 at Bangkok) till June 2003 started ruling below the international price in July 2003 owing to the sharp increase in the international price and the situation had remained unchanged till the end of March 2004. As can be seen from the following graphical presentation, the international price registered a sharp increase since October 2003, widening the gap between the Indian price and the international price, which remained marginal up to September 2003. The global economic recovery, the upturn in United States' (US) business activities, the strong Chinese presence in the

market, relative run down in global NR stocks and producer country currency movements were some of the major factors which had propelled the international price.

**Movement of Average Monthly Prices of NR in India and International Markets during 2003-04**



### 5. Import and Export of NR

An important development that had taken place in the import policy of NR during the year under review was the removal of the ban on duty-free import through the Duty Exemption Entitlement Certificate (DEEC), popularly called Advance Licence scheme from July 2003. However, as the restriction on port of entry of NR imposed by the Government of India since 19<sup>th</sup> December 2001 had been continued, NR could be imported only through Kolkata and Visakhapatnam ports. Another development in the import policy regime was the reduction in basic customs duty on NR from 25 percent to 20 per cent and the abolition of Special Additional Duty (SAD) levied at four per cent, with effect from 9<sup>th</sup> January 2004 vide the Notification No. 5/2004-Customs, dated 8<sup>th</sup> January 2004 issued by the Government of India. But, as the domestic prices till March 2004 remained

below the international prices, import of NR on payment of duty continued to be uneconomic even after the lowering of tariff wall. However, during the first quarter of the year when the International prices ruled below the Indian prices, substantial volume of NR was contracted for import into the country. The most popular scheme for importing NR into the country was the duty entitlement passbook (DEPB) scheme because of its flexibility and transferability. Though the import undertaken under the DEPB scheme involves payment of full customs duty, it is generally regarded as a duty free channel at the operational level. As per the provisional data available, rubber goods manufacturers imported 44,199 tonnes of NR during 2003-04 as compared to 26,217 tonnes during 2002-03.

The export of NR in the country remained buoyant during 2003-04 due to the favourable price trends prevailed in the international market and the financial incentives provided for quality improvement, certification, packaging and transportation. India's export of NR during 2003-04 was 75,905 tonnes as compared to 55,311 tonnes during 2002-03 and 6995 tonnes during 2001-02. India's share in the global export of NR during 2003 was 1.1 per cent.

## 6. Global Scenario

Owing to the substantial upward revision in the production statistics of Malaysia from the year 2000, the International Rubber Study Group (IRSG) has made revisions on its earlier estimates on production of NR. The revised and pre-revised data on production in Malaysia since 2000 and the current world position of NR as reported by the IRSG is given in the following table.

Revised Global Scenario						
	Production in Malaysia ('000 tonnes)		World rubber position ('000 tonnes)		Growth rates	
	Pre-revised	Revised	Production	Consumption	Production	Consumption
2000	615.2	927.6	6730	7300	-1.3	10.1
2001	547.0	882.1	7240	7170	7.6	-1.8
2002	589.4	889.8	7350	7520	1.5	4.9
2003	697.6	985.6	8000	7930	8.8	5.5

The global production of NR had risen from 73.50 lakh tonnes during 2002 to 80.00 lakh tonnes during 2003. The increase in production was contributed mainly by the top producers, Thailand, Indonesia Malaysia, India and China. The percentage shares of these countries in world production of NR were 36.9, 22.4, 12.3, 8.9, 6.0, respectively. The recovery in the global economy since 2003, has pushed up the consumption of NR. Global consumption of NR had grown by 5.5 per cent during 2003 to 79.30 lakh tonnes from 75.20 lakh tonnes during 2002. China maintained its position as the largest consumer of NR accounting for 18.7 percent of the total global consumption of NR. China was followed by the USA (13.6 %), Japan (9.9 %), India (9.0%) and Malaysia (5.3%).

In the light of forecasts of global economic growth, the International Rubber Study Group has projected the world consumption of NR to grow by 2.5 per cent to reach 81.3 lakh tonnes during 2004. As against this, global production of NR is forecast to grow by 11.8 per cent to 89.4 lakh tonnes during 2004. On the basis of these forecasts, the world supply of NR during 2004 is anticipated to be in excess of demand by 8.1 lakh tonnes, which indicates a steep rise in stocks and the possibility of prices coming under downward pressure. However, any sharp decline in the prices in the near term is unlikely because the appreciation of local currencies of the major three exporting countries against US dollar is expected to cushion the market to a certain extent.

According to IRSG reports, the rapid growth in production of NR in all the four major producing countries during 2003, was a positive response to the resurgence in global prices of NR. The high rate of output growth is unlikely to sustain, because there are well-defined limits for NR production to increase. The scope for expanding cultivation of rubber in Malaysia, Indonesia, Thailand and China is limited. Thailand and Malaysia are among the world's fastest growing economies and despite the turmoil in their economies in 1997 and 1998, they are likely to be the next generation of New Industrialised Countries. Because of the increasing process of industrialization in these countries, NR is increasingly consumed domestically and the surplus available for export to the world market is on the decline.

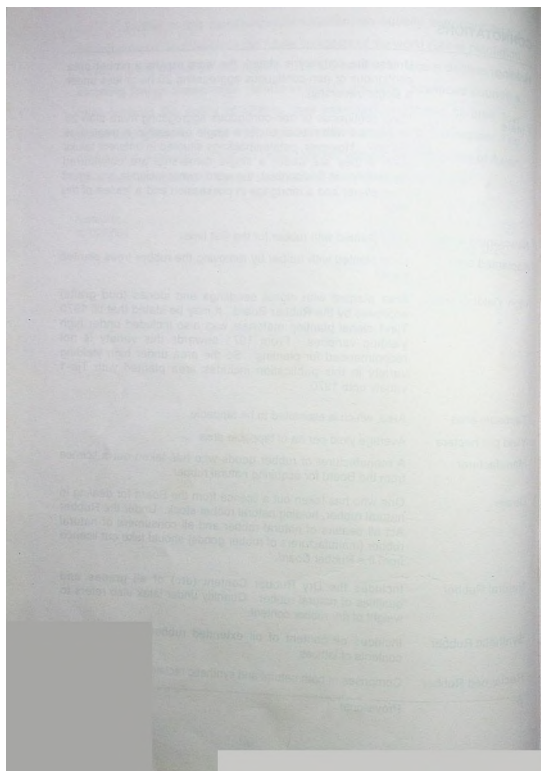
Further to the demand-supply situation, an equally important factor having potential implication on the future prospects of the world rubber plantation industry is the exchange rate regime. The US is likely to face a decline in the incoming foreign investments. MNCs in the US and other advanced countries have initiated the policy of shifting their manufacturing base of their low technology goods to lower cost regions, mainly in Asia/Pacific region. The consequent weakening of the US dollar together with the strengthening of Asian currencies, is expected to have a positive long-term effect on NR prices.

Kottayam,  
30/09/2004.

**D.Indira Devi**  
Jt. Director  
Statistics & Planning Dept.

## CONNOTATIONS

Holding	Unless the contrary is stated, the word means a rubber area contiguous or non-contiguous aggregating 20 ha or less under a single ownership.
Estate	Land contiguous or non-contiguous aggregating more than 20 ha planted with rubber under a single ownership is treated as "Estate". However, estates/holdings situated in different taluks even if they are under a single ownership are considered separately. In this context, the word owner includes any agent of an owner and a mortgage in possession and a lessee of the area.
Newplanted area	Land planted with rubber for the first time.
Replanted area	Land planted with rubber by removing the rubber trees planted earlier.
High Yielding area	Area planted with clonal seedlings and clones (bud grafts) approved by the Rubber Board. It may be stated that till 1970 Tjir-1 clonal planting materials was also included under high yielding varieties. From 1971 onwards this variety is not recommended for planting. So the area under high yielding variety in this publication includes area planted with Tjir-1 variety upto 1970.
Tappable area	Area, which is estimated to be tappable.
Yield per hectare	Average yield per ha of tappable area.
Manufacturer	A manufacturer of rubber goods who has taken out a licence from the Board for acquiring natural rubber.
Dealer	One who has taken out a licence from the Board for dealing in natural rubber, holding natural rubber stock. Under the Rubber Act all dealers of natural rubber and all consumers of natural rubber (manufacturers of rubber goods) should take out licence from the Rubber Board.
Natural Rubber	Includes the Dry Rubber Content (drc) of all grades and qualities of natural rubber. Quantity under latex also refers to weight of dry rubber content.
Synthetic Rubber	Includes oil content of oil extended rubber and total solid contents of lattices.
Reclaimed Rubber	Comprises of both natural and synthetic reclaimed rubber.
P	Provisional





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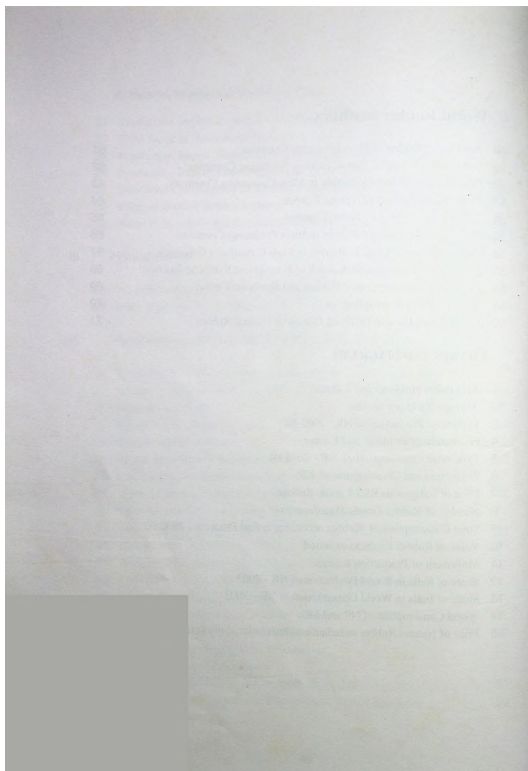


TABLE - I

**AREA NEWPLANTED AND REPLANTED WITH RUBBER**  
(Hectares)

Year	Newplanted	Replanted	Total	Year	Newplanted	Replanted	Total
1960-61	12104	1385	13489	1982-83	18884	4863	24847
1961-62	14485	2446	16931	1983-84	18805	5641	24446
1962-63	13222	2499	15721	1984-85	22365	5217	27582
1963-64	8551	2309	8860	1985-86	21222	5759	26981
1964-65	5800	2692	8492	1986-87	19856	5563	25419
1965-66	4749	4163	8912	1987-88	19535	6517	26052
1966-67	5886	4039	9925	1988-89	19471	6998	26469
1967-68	6614	2905	9519	1989-90	20175	6854	27029
1968-69	6079	1905	7984	1990-91	15143	7154	22297
1969-70	6709	1920	8629	1991-92	13851	7100	20951
1970-71	6655	2089	8744	1992-93	11000	7200	18200
1971-72	3044	1473	4517	1993-94	9200	6000	15200
1972-73	3775	1704	5479	1994-95	7500	7000	14500
1973-74	3975	1576	5551	1995-96	7800	7500	15300
1974-75	4310	2200	6510	1996-97	10400	7000	17400
1975-76	4561	3099	7660	1997-98	13300	7500	20800
1976-77	4882	3172	8054	1998-99	8800	6500	15300
1977-78	4770	3645	8415	1999-00	6100	5200	11300
1978-79	8450	4050	12500	2000-01	4600	5000	9600
1979-80	12300	4065	16365	2001-02	4800	4800	9600
1980-81	19308	5476	24784	2002-03p	4500	5500	10000
1981-82	18100	4188	22288	2003-04p	4100	4800	8900

TABLE - 2

STATE-WISE AREA UNDER RUBBER AT THE END OF EACH YEAR  
(Hectares)

State	1960-61	70-71	80-81	81-82	82-83	83-84	84-85	85-86	86-87	87-88	88-89	89-90	90-91
Kerala	135809	198424	253784	269621	287334	303774	323303	341506	356421	370079	383562	396467	407821
Tamil Nadu	6256	11712	15513	15740	16020	16240	16450	16567	16765	16917	17037	17100	17150
Karnataka	1659	6525	9004	9227	9502	9973	10710	11392	11913	12353	12809	13200	13985
Tripura			2746	3590	4578	5338	6545	7742	10065	12670	14326	16620	17320
Assam			568	789	840	929	1053	1242	1968	3178	5144	8350	9380
Meghalaya			923	1033	1108	1190	1266	1410	1831	2509	3229	3350	3466
Nagaland						105	205	355	525	675	910	1110	1300
Mizoram				170	276	420	470	570	620	690	810	900	950
Manipur			216	291	331	331	335	355	440	515	665	895	1203
A&N	181	537	900	900	902	908	912	919	930	943	948	950	960
Goa			512	563	604	640	711	773	831	851	861	923	970
Orissa												146	191
Maharashtra												137	143
Uttar Pradesh													
Andhra Pradesh													
Total	143905	217198	284166	301924	321495	339848	361960	382831	402329	421512	440584	460341	475083
Annual growth rate	8.68	3.03	7.15	6.25	6.48	5.71	6.51	5.77	5.09	4.77	4.52	4.48	3.20

A&amp;N: Andaman &amp; Nicobar Islands.

TABLE - 2 (Contn.)

State	1991-92	92-93	93-94	94-95	95-96	96-97	97-98	98-99	99-00	2000-01	2001-02p	2002-03p
Kerala	419174	428864	437138	443300	449000	455566	465282	469924	472900	474365	475039	476047
Tamil Nadu	17210	17260	17300	17430	17948	18209	18470	18631	18659	18710	18704	18631
Karnataka	14386	14650	14850	14955	16307	17324	18475	19323	19565	19735	20017	20294
Tripura	17860	18250	18670	19252	20761	21982	22582	24120	25380	26495	27947	28853
Assam	9740	9885	10006	10122	9943	10243	10060	10805	11644	12117	12806	13208
Meghalaya	4058	4350	4521	4550	4105	4345	3757	3958	3683	4029	4354	4586
Nagaland	1371	1370	1400	1450	1523	980	1287	1416	1615	1791	2024	2087
Mizoram	960	960	972	979	913	934	628	671	543	585	619	696
Manipur	1215	1215	1220	1253	1400	1214	1308	1401	1610	1588	1698	1708
A&N	964	970	969	960	954	976	989	931	931	931	960	960
Goa	978	998	935	936	828	922	924	939	839	872	843	870
Orissa	270	270	289	219	242	277	149	358	408	493	517	552
Maharashtra	150	154	150	91	101	143	305	163	180	189	165	200
Arunachal Pradesh	*	*	*	50	50	69	128	161	244	280	323	372
West Bengal	*	*	*	*	*	62	115	158	285	388	430	494
Andhra Pradesh	178	178	*	*	*	*	75	82	98	102	109	109
Total	488514	499374	508420	515547	524075	533246	544534	553041	558584	562670	566555	569667
Annual growth rate	2.82	2.22	1.81	1.40	1.65	1.75	2.12	1.56	1.00	0.73	0.69	0.55

\* : Upto 1993-94 total area less than 100 hectares omitted, thereafter less than 50 hectares omitted.

TABLE - 3

**DISTRICT/STATE/UNION TERRITORY-WISE AREA OF RUBBER UNDER HOLDINGS & ESTATES**  
(Hectares)

District/ State/ Union Territory	1960-61			1970-71			1980-81		
	Holdings	Estates	Total	Holdings	Estates	Total	Holdings	Estates	Total
1. Thiruvananthapuram	3657	1097	4754	6223	1414	7637	9208	971	10179
2. Kollam	13335	9888	23223	21116	12338	33454	28533	12548	41081
3. Alappuzha	2195	115	2310	3802	60	3862	4222	51	4273
4. Kottayam	35676	9818	45494	48313	9874	59187	61880	5046	66926
5. Idukki							15084	4813	19897
6. Ernakulam	13495	4568	18063	21807	6260	28067	23543	3312	26855
7. Thrissur	1537	5389	6926	3236	5847	9083	4392	5390	9782
8. Palakkad	2471	3640	6111	3237	1906	5143	9941	2038	11979
9. Malappuram				9830	7573	17503	14491	4833	19324
10. Kozhikode	8417	10325	18742	9283	7113	16396	13508	5863	19171
11. Kannur	7583	2603	10186	14664	3428	18092	21254	3063	24317
KERALA	88366	47443	135809	142611	55813	198424	205056	47728	253784
12. Kanyakumari	1736	3878	5614	5117	5922	11039	6858	8232	15090
Others	118	524	642	148	525	673	120	303	423
TAMIL NADU	1854	4402	6256	5265	6447	11712	6978	8535	15513
KARNATAKA	155	1504	1659	1924	4601	6525	2188	6816	9004
A & N ISLANDS		181	181		537	537	22	878	900
TRIPURA							159	2587	2746
ASSAM								568	568
MEGHALAYA								923	923
MANIPUR								216	216
GOA							40	472	512
Grand Total	90375	53530	143905	149800	67398	217198	215443	68723	284166
Percentage share	62.80	37.20	100.00	65.88	34.12	100.00	75.82	24.18	100.00



TABLE - 3(Contin.)

District/ State/ Union Territory	1990-91			1995-96			1999-00		
	Holdings	Estates	Total	Holdings	Estates	Total	Holdings	Estates	Total
1. Thiruvananthapuram	21213	943	22156	25077	918	25995	27067	887	27954
2. Kollam	22957	9481	32438	26091	9256	35347	27211	9241	36452
3. Pathanamthitta	36611	6261	42872	41095	5968	47063	41562	6138	47700
4. Alappuzha	3350		3350	3573		3573	3747	0	3747
5. Kottayam	99205	4683	103888	105067	4515	109582	106589	4334	110923
6. Idukki	31166	4379	35545	32985	4255	37240	33940	4247	38187
7. Ernakulam	47991	3172	51163	52347	2900	55247	53615	2768	56383
8. Thrissur	6518	4752	11270	7898	4356	12254	9074	4298	13372
9. Palakkad	19707	1097	20804	24939	1092	26031	27690	1091	28781
10. Malappuram	18745	3875	22620	23271	3034	26305	26150	2770	28920
11. Kozhikode	12255	4395	16650	13415	3934	17349	14063	3953	18016
12. Wynad	4867	48	5035	5240	62	5302	6367	24	6411
13. Kannur	21371	1509	22880	27175	1245	28420	32569	1237	33806
14. Kasargod	16164	966	17150	18469	823	19292	21549	699	22248
KERALA	362240	45361	407621	406642	42358	449000	431213	41687	472900
15. Kanyakumari	9444	7276	16720	10636	6927	17563	11816	6422	18238
Others	252	178	430	272	113	385	323	98	421
TAMIL NADU	9696	7454	17150	10908	7040	17948	12139	6520	18659
KARNATAKA	7270	6725	13995	9713	6594	16307	13576	5989	19565
A & N ISLANDS	64	896	960	109	845	954	86	845	931
TRIPURA	8162	9158	17320	11242	9519	20761	16846	8534	25380
ASSAM	7154	2226	9380	7607	2336	9943	9983	1661	11644
MEGHALAYA	1018	2448	3466	1087	3018	4105	1946	1737	3683
NAGALAND	520	780	1300	662	961	1623	1477	138	1615
MIZORAM	113	837	950	378	535	913	478	65	543
MANIPUR	425	778	1203	682	718	1400	1133	477	1610
GOA	422	548	970	296	532	828	411	428	839
MAHARASHTRA	38	107	145	42	59	101	122	58	180
ORISSA	165	80	245	118	124	242	314	94	408
ARUNACHAL PRADESH				13	37	50	207	37	244
WEST BENGAL				*	*	*	248	37	285
ANDHRA PRADESH	178		178	*	*	*	98		98
Grand Total	397465	77618	475083	449499	74576	524075	490277	68307	558684
Percentage share	83.66	16.34	100.00	85.77	14.23	100.00	87.77	12.23	100.00

\* - Statewise total area less than 50ha. omitted.



TABLE - 3(Contn.)

District/ State/ Union Territory	2000-01			2001-02p			2002-03p		
	Holdings	Estates	Total	Holdings	Estates	Total	Holdings	Estates	Total
1.Thiruvananthapuram	27430	767	28197	27530	766	28296	27659	756	28415
2.Kollam	27453	9318	36771	27528	9335	36863	27549	9247	36796
3.Pathanamthitta	41734	6135	47869	41755	6107	47862	41764	6141	47905
4.Alappuzha	3801	0	3801	3818	31	3849	3825	0	3825
5.Kottayam	106924	4272	111196	107064	4237	111301	107618	4158	111776
6.Idukki	34051	4025	38076	34129	3994	38123	34164	4086	38250
7.Ernakulam	53873	2771	56644	53981	2729	56710	54023	2714	56737
8.Thirissur	9138	4235	13373	9153	4249	13402	9165	4231	13396
9.Palakkad	27871	1062	28933	27944	1041	28985	28025	1039	29064
10.Malappuram	26422	2787	29209	26537	2726	29263	26668	2697	29335
11.Kozhikode	14103	3587	17690	14128	3447	17575	14143	3448	17591
12.Wynad	6406	24	6430	6426	24	6450	6451	0	6451
13.Kannur	32688	1256	33944	32756	1256	34012	32835	1250	34085
14.Kasaragod	21665	567	22232	21708	640	22348	21780	640	22420
15. KERALA	433559	40806	474365	434457	40582	475039	435670	40377	476047
Others	11953	6339	18292	11953	6344	18297	11992	6226	18218
TAMIL NADU	320	98	418	309	98	407	300	113	413
KARNATAKA	12273	6437	18710	12262	6442	18704	12292	6339	18631
A & N ISLANDS	13955	5779	19735	14052	5965	20017	14322	5972	20294
TRIPURA	86	845	931	115	845	960	115	845	960
ASSAM	17956	8539	26495	19122	8825	27947	19908	8944	28853
MEGHALAYA	10468	1649	12117	11133	1673	12806	11559	1649	13208
NAGALAND	2185	1844	4029	2510	1844	4354	3436	1150	4586
MIZORAM	1653	138	1791	1833	191	2024	1890	197	2087
MANIPUR	520	65	585	566	53	619	609	87	696
GOA	1111	477	1588	1221	477	1698	1231	477	1708
MAHARASHTRA	431	441	872	432	411	843	459	411	870
ORISSA	131	58	189	107	58	165	142	58	200
ARUNACHAL PRADESH	399	94	493	429	88	517	464	88	552
WEST BENGAL	243	37	280	286	37	323	340	32	372
ANDHRA PRADESH	285	103	388	327	103	430	347	147	494
Grand Total	495358	67312	562670	498961	67594	566555	502894	66773	569667
Percentage share	88.04	11.96	100.00	88.07	11.93	100.00	88.28	11.72	100.00

TABLE - 4

# CLASSIFICATION OF HOLDINGS AND ESTATES ACCORDING TO SIZE AT THE END OF EACH YEAR

(Area in hectares)

## HOLDINGS

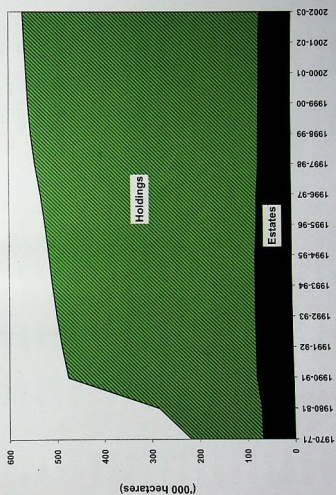
Year	2 ha. & below		Above 2 ha. & upto & including 4 ha.		Above 4 ha. & upto & including 20 ha.		Total	
	Units	Area	Units	Area	Units	Area	Units	Area
1960-61	67836	52340	4660	13981	2878	24054	75374	90375
1970-71	114924	82570	9922	25853	5593	41377	130439	149800
1980-81	218155	139809	11924	30140	6389	45494	236468	215443
1990-91	763022	332401	13100	33149	4465	31915	780587	397465
1991-92	797429	342010	13556	35569	4562	33044	815547	410623
1992-93	824298	351571	13627	36450	4575	33138	842500	421159
1993-94	845402	359451	13714	37205	4584	33437	863700	430093
1994-95	862728	365654	13994	37849	4678	34016	881400	437519
1995-96	892094	375957	14474	39079	4721	34463	911289	449499
1996-97	912112	384008	14724	40145	4801	35284	931637	459437
1997-98	936456	394412	17210	44104	5058	36364	957724	474880
1998-99	948553	402336	17317	44515	5108	36850	970978	483701
1999-00	963613	407601	17627	45031	5249	37645	986489	490277
2000-01	968856	412574	17647	45088	5257	37696	991560	495358
2001-02	974200	414146	18141	45803	5530	39012	997871	498961
2002-03p	985880	434753	11177	35281	4010	32860	1000767	502894

TABLE - 4 (Contn.)

## ESTATES

Year	Above 20 ha & upto 40 ha		Above 40 ha & upto 200 ha		Above 200 ha & upto 400 ha		Above 400 ha & upto 600 ha		Above 600 ha & upto 800 ha		Above 800 ha		Total	
	Units	Area	Units	Area	Units	Area	Units	Area	Units	Area	Units	Area	Units	Area
1960-61	271	7590	216	17812	29	8082	18	8768	5	3437	8	7841	547	53530
1970-71	309	8771	273	21318	29	8219	20	9866	6	4036	12	15088	649	67398
1980-81	258	7289	228	18659	25	7481	15	8208	10	6885	17	20201	553	68723
1990-91	120	3407	130	11348	22	6282	22	11051	17	11415	21	34135	332	77618
1991-92	123	3478	130	11533	22	6217	21	10622	17	11423	21	34618	334	77891
1992-93	126	3543	132	11555	22	6285	21	10649	17	11504	21	34679	339	78215
1993-94	129	3628	132	11406	22	6280	21	10679	17	11406	21	34928	342	78327
1994-95	130	3659	132	11377	22	6266	21	10638	17	11230	21	34858	343	78028
1995-96	114	3286	134	12291	25	7589	19	9835	15	10116	19	31459	326	74576
1996-97	112	3214	134	12262	25	7610	20	10303	13	8682	19	31738	323	73809
1997-98	111	3165	136	11732	23	6821	22	11396	11	7328	19	29212	322	69654
1998-99	111	3171	136	11743	23	7059	21	10775	11	7313	19	29279	321	69340
1999-00	111	3188	137	11680	23	7159	20	10301	11	7284	19	28695	321	68307
2000-01	108	3118	135	11591	24	7487	21	10720	9	5887	19	28509	316	67312
2001-02	98	2917	136	11547	24	7548	21	10721	9	5872	19	28989	307	67594
2002-03p	90	2649	136	11494	23	7171	22	11119	9	5884	19	28456	299	66773

Chart 1  
AREA UNDER HOLDINGS AND ESTATES



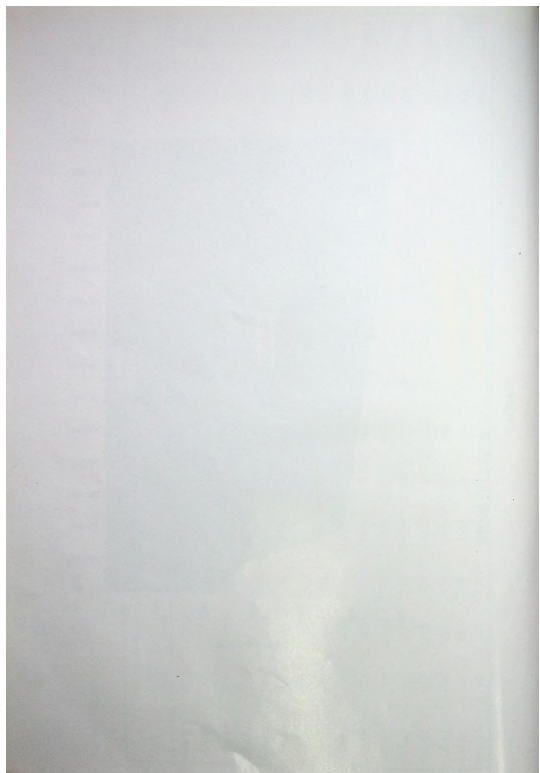


TABLE - 5

**AREA UNDER HIGH YIELDING AND UNSELECTED MATERIALS**  
(Hectares)

Year	HOLDINGS			ESTATES			TOTAL		
	High yielding	Unselected	Total	High yielding	Unselected	Total	High yielding	Unselected	Grand Total
1955-56	2844	35644	38488	14874	32705	47579	17718	68349	86067
1960-61	28912	63463	90375	23811	29719	53530	50723	93182	143905
1965-66	53048	69962	123010	39534	24169	63703	92582	94131	186713
1970-71	83030	86770	149800	55397	12001	67398	138427	78771	217198
1975-76	107326	61361	168687	64978	2211	67189	172304	63572	235876
1980-81	169699	45744	215443	68110	613	68723	237809	46357	284166
1985-86	270835	39374	310209	72072	550	72622	342907	39924	382831
1990-91	365315	32150	397465	77228	390	77618	442543	32540	475083
1991-92	379036	31587	410623	77519	372	77891	456555	31959	488514
1992-93	390948	30511	421159	77858	357	78215	468506	30888	499374
1993-94	402705	27388	430093	77987	340	78327	480692	27728	508420
1994-95	412876	24643	437519	77689	339	78028	490565	24982	515547
1995-96	427235	22264	449499	74260	316	74576	501495	22580	524075
1996-97	439224	20213	459437	73522	287	73809	512746	20500	533246
1997-98	456835	18045	474880	69398	256	69654	526233	18301	544634
1998-99	468105	15596	483701	69084	256	69340	537189	15852	553041
1999-00	476289	13988	490277	68080	227	68307	544369	14215	558584
2000-01	486045	9313	495358	67118	194	67312	553163	9507	562670
2001-02	491080	7981	498961	67437	157	67594	558517	8038	566555
2002-03p	496485	6409	502894	66658	115	66773	563143	6524	569667

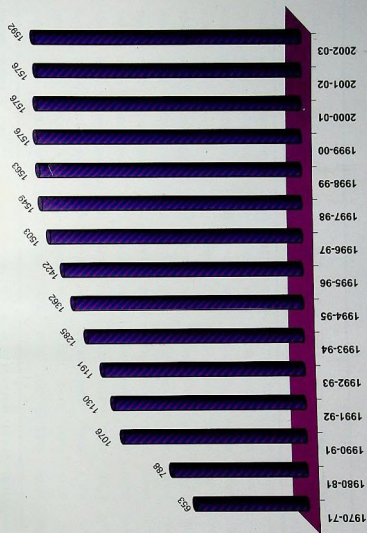
TABLE - 6

**TAPPED AREA, PRODUCTION AND AVERAGE YIELD PER HECTARE IN DIFFERENT STATES**  
(Area in hectares, Production in tonnes and Yield per hectare in kilograms)

Year	KERALA			TAMIL NADU			KARNATAKA			OTHERS			TOTAL		
	Tapped area	Production	Yield	Tapped area	Production	Yield	Tapped area	Production	Yield	Tapped area	Production	Yield	Tapped area	Production	Yield
1960-61	65355	23175	354	3305	2040	617	1483	452	305	110	30	272	70253	25697	366
1970-71	134103	86773	647	5673	4859	857	1374	519	378	26	20	769	141176	92171	653
1980-81	179980	140320	780	9700	10446	1077	4004	2128	531	561	206	367	194245	153100	788
1990-91	284960	307521	1079	11873	13645	1149	6957	8665	958	2623	1784	680	306413	329615	1076
1991-92	301360	343109	1139	12180	13975	1147	7370	7260	985	3630	2401	661	324540	366745	1130
1992-93	306539	368648	1203	12110	14250	1177	7872	7910	1005	3979	2682	674	330500	393490	1191
1993-94	313416	408311	1304	12215	14720	1205	8410	8626	1026	4509	3503	777	338550	435160	1285
1994-95	318965	442830	1389	12550	15065	1200	9175	9700	1057	5580	4220	756	346270	471815	1362
1995-96	328812	474555	1443	12420	17335	1396	9530	10275	1078	5882	4745	835	356444	506910	1422
1996-97	335400	512756	1529	12730	18505	1454	9760	11160	1143	7690	7004	911	365580	549425	1503
1997-98	342420	541935	1583	13000	19175	1475	10365	12150	1172	11185	10570	945	376970	583830	1549
1998-99	349693	559099	1599	13215	20263	1533	10685	12549	1174	13517	13134	972	387100	605045	1563
1999-00	355342	572820	1612	13377	21134	1580	10980	13115	1194	15101	15196	1006	394800	622265	1576
2000-01	359780	579866	1612	13651	21611	1583	11043	13368	1211	15427	15560	1009	399901	630405	1576
2001-02	360006	580350	1612	13677	21631	1582	11110	13465	1212	15920	15954	1002	400713	631400	1576
2002-03p	363791	594917	1635	14065	22253	1582	11278	13859	1211	18819	18606	989	407953	649435	1592



Chart 2  
**AVERAGE YIELD PER HECTARE (kilograms)**





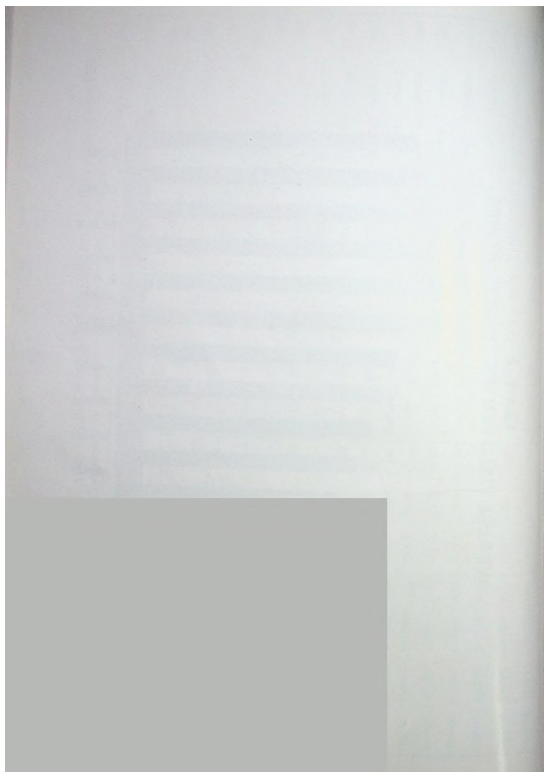


TABLE - 7

## MONTH-WISE PRODUCTION OF NATURAL RUBBER

( Tonnes)

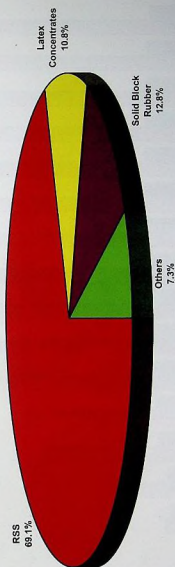
Month	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p
April	23590	25245	26520	30870	31880	35300	38315	41080	41735	43355	44105	40035	39800	45580
May	20570	30710	31630	34845	39275	37210	44890	47460	47840	37685	47345	43350	42410	49960
June	18310	20310	22880	25300	26580	29680	36140	40180	41220	38990	40400	39175	43635	47035
July	20520	20650	23835	26295	27610	32540	35810	36990	38580	40220	42750	43490	45835	49485
August	25260	28240	26815	35150	36210	38475	40545	43440	46790	50870	45320	51485	51475	56950
Septemb.	34850	39470	34980	46450	46930	48260	51360	55980	48470	58250	56550	56450	58480	64815
October	37965	39940	39695	41360	52660	53040	55110	59320	57130	60655	64825	62450	63215	71290
November	37885	41635	45100	47475	53330	58815	63150	65255	71065	76225	72090	75525	76410	85325
December	39840	43235	54240	52490	54650	62660	64820	71420	75750	77430	76850	79410	80495	88450
January	35650	38690	44805	47750	51210	55990	60125	64785	69710	70385	70550	73030	75525	77545
February	16265	17880	20550	22090	23790	25085	27590	28260	31560	32190	32515	31855	35090	36455
March	18910	20740	22440	25085	27710	28875	31570	29860	35395	36150	37105	35145	38105	38760
Total	329615	366745	393490	435160	471815	506910	549425	583930	605045	622265	630405	631400	649435	711650
Annual growth rate	10.87	11.26	7.29	10.59	8.42	7.44	8.39	6.26	3.63	2.85	1.31	0.16	2.86	9.58

TABLE - 8

# TYPE-WISE PRODUCTION OF NATURAL RUBBER (Tonnes)

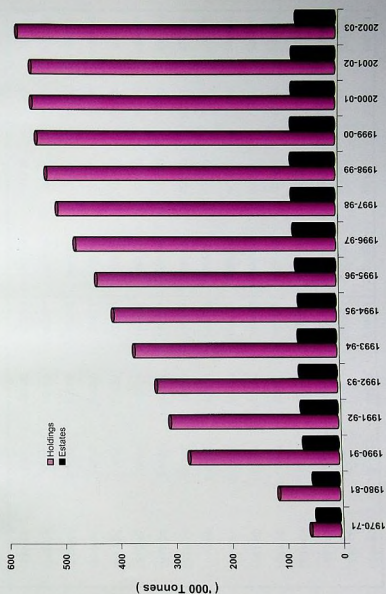
Type	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p
RSS Grades	236530	373455	396160	436560	436275	454180	455175	453465	441875	491405
Latex Concentrates(drc)	39440	59695	61550	55400	64565	60640	65975	62990	76205	77070
Solid Block Rubber	16980	41110	51960	49910	59715	60095	60225	65650	81405	91120
Pale Latex Crepes	2725	2310	1565	1315	1980	1845	1975	1645	1750	1765
Others	33940	30340	38190	40645	42510	45505	47055	47650	48200	50290
Total	329615	506910	549425	583830	605045	622265	630405	631400	649435	711650

**Chart 3**  
**TYPE-WISE PRODUCTION OF NR - 2003-04**





**Chart 4**  
**PRODUCTION OF HOLDINGS AND ESTATES**



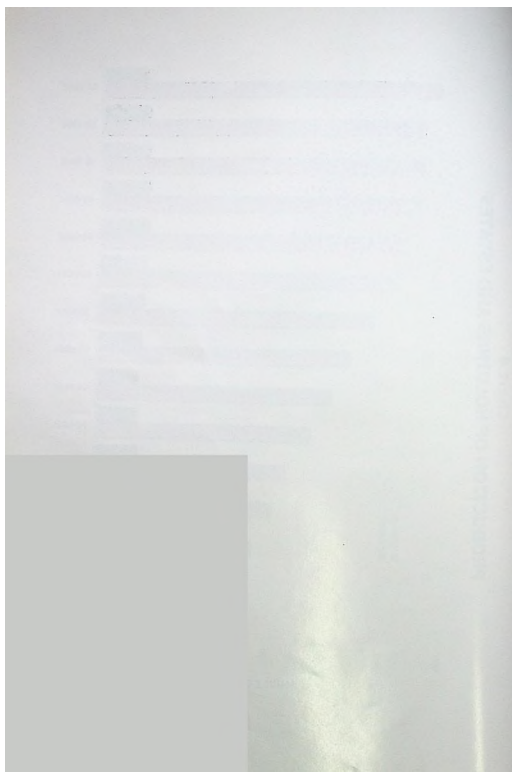


TABLE - 9

**PRODUCTION OF HOLDINGS AND ESTATES**  
(Tonnes)

Year	Holdings	Estates	Total	Year	Holdings	Estates	Total
1955-56	6450	17280	23730	1987-88	181710	53487	235197
1960-61	6528	19169	25697	1988-89	204000	55172	259172
1965-66	20424	30106	50530	1989-90	239400	57900	297300
1970-71	51538	40633	92171	1990-91	268500	61115	329615
1975-76	84616	53134	137750	1991-92	302700	64045	366745
1976-77	93848	55784	149632	1992-93	327500	65990	393490
1977-78	94135	52852	146987	1993-94	367950	67210	435160
1978-79	88767	46530	135297	1994-95	405900	65915	471815
1979-80	103210	45260	148470	1995-96	436500	70410	506910
1980-81	107700	45400	153100	1996-97	475000	74425	549425
1981-82	109160	43710	152870	1997-98	507000	76830	583830
1982-83	117789	48061	165850	1998-99	527000	78045	605045
1983-84	125912	49368	175280	1999-00	544600	77665	622265
1984-85	136335	50115	186450	2000-01	553770	76835	630405
1985-86	149673	50792	200465	2001-02	555320	76080	631400
1986-87	168195	51325	219520	2002-03p	580080	69355	649435



TABLE - 10

# **DISTRICT-WISE PRODUCTION OF NATURAL RUBBER** (Tonnes)

District/State	1970-71	1975-76	1980-81	1985-86	1990-91	1995-96	2000-01	2001-02	2002-03p
Thiruvananthapuram	3581	5223	5933	8475	15513	27298	33318	33586	34208
Kollam	16141	24185	25561	19807	26951	38821	46289	46854	48386
Pathanamthitta	--	--	--	16245	34264	52974	62423	62502	62833
Alappuzha	1713	2409	2771	2722	2140	3135	4003	4114	4356
Kottayam	26907	34021	36132	50134	82852	120946	141266	140543	143244
Idukki	--	10187	11140	15611	26638	38356	45405	45260	45295
Ernakulam	11907	12292	13929	19419	37586	62159	73557	73219	73752
Thrissur	5700	7190	6739	6079	9108	15513	19670	19762	19932
Palakkad	1466	3816	4516	7150	12531	22571	31619	31759	34334
Malappuram	6451	9132	10571	11419	14855	24430	33007	32904	33883
Kozhikode	7656	10076	10730	8802	12769	19490	22871	22884	23490
Wynad	--	--	--	1635	2357	3015	3955	4038	4753
Kannur	5251	10238	12298	9841	16808	26876	38459	38800	40658
Kasaragod	--	--	--	7424	13149	18971	24024	24125	25795
Kerala	86773	128769	140320	184563	307521	474555	579866	580350	594917
Outside Kerala	5398	8981	12780	15902	22094	32355	50539	51050	54518
<b>Grand Total</b>	<b>92171</b>	<b>137750</b>	<b>153100</b>	<b>200465</b>	<b>329615</b>	<b>506910</b>	<b>630405</b>	<b>631400</b>	<b>649435</b>

Note : Wynad District was formed in November 1980 from Kozhikode & Kannur Districts; Pathanamthitta District in November 1982 from Kollam & Alappuzha Districts and Kasargode District in May 1964 from Kannur District.

TABLE - 11

**MONTH-WISE IMPORT OF NATURAL RUBBER**  
(Tonnes)

Month	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p
April	10614	2953	1597	1548	762	940	1021	2347	2959	1751	255	162	2015	815
May	7759	1195	791	2894	723	820	1619	1737	1085	889	708	843	1282	6095
June	8096	2153	3240	1122	84	3290	1584	3518	905	1284	1367	1299	894	4519
July	2598	827	2738	2868	691	12301	3156	3378	3493	2125	1939	3064	2098	5377
August	4718	1543	740	3031	914	18654	1531	2518	3942	4573	567	7432	5067	8186
September	5977	1347	3798	1655	1460	5658	1057	2190	4712	2206	968	8766	688	3651
October	1794	472	1321	1105	1196	1754	876	2115	1807	1843	918	3038	817	2295
November	1143	937	695	756	33	6562	727	1368	1376	1580	749	5398	336	1129
December	2013	583	469	946	248	231	1927	3168	1813	724	278	6441	161	1056
January	1281	604	516	392	806	810	1573	2741	4573	580	334	6230	3187	2457
February	1132	780	996	360	405	1443	1819	3457	1587	1728	232	3900	6114	2848
March	1888	1676	983	3283	771	1172	2880	3533	1282	930	655	2296	3558	5771
Total	49013	15070	17884	19940	8093	51635	19770	32070	29534	20213	8970	49769	26217	44199

TABLE - 12

## COUNTRY-WISE EXPORT OF NATURAL RUBBER

(Tonnes)

COUNTRY	1996-97	1997-98	1998-99	1999-2000	2000-01	2001-02	2002-03p	2003-04p
Australia	33	107	230	40	162	34	586	619
Belgium	..	..	..	..	..	..	193	1651
China	..	..	..	..	1350	665	13314	31226
Egypt	..	..	..	..	..	..	162	385
France	..	..	..	24	18	..	..	226
Germany	..	..	..	19	..	10	1375	2469
Hungary	..	..	..	..	..	..	33	109
Indonesia	..	..	..	756	3582	2337	9149	1444
Iran	96	..	..	..	..	..	16	864
Japan	..	36	..	..	..	..	..	56
Kenya	..	..	..	..	108	..	452	321
Korea	..	..	..	..	..	..	36	218
Malaysia	..	..	..	162	343	..	9801	7775
Mexico	..	..	47	..	..	..	..	..
Nepal	1356	1236	1491	937	927	727	1267	1798
Netherlands	..	..	..	..	..	..	315	237
Pakistan	..	..	..	162	2556	1349	1900	1533
Poland	..	..	..	..	..	..	95	146
Russia	110	..	17	9	..	..	402	400
South Africa	..	..	..	72	..	..	185	76
Singapore	..	..	19	3798	2047	..	1538	1936
Spain	..	16	..	..	658	10	2689	3222
Sri Lanka	..	..	..	..	630	1406	4486	9995
Tanzania	..	..	36	..	..	..	106	..
Thailand	..	..	..	..	..	173	..	42
Turkey	..	..	..	..	792	57	5182	4337
U.A.E.	..	..	..	..	..	199	276	581
U.K.	..	..	..	..	..	13	746	1236
Ukraine	..	..	..	..	..	..	209	648
U.S.A.	..	20	..	..	..	..	207	16
Zimbabwe	..	..	..	..	144	..	291	0
Others	3	..	..	10	39	15	300	2339
Total	1598	1415	1840	5989	13356	6995	55311	75905

TABLE-13

## MONTH-WISE CONSUMPTION OF NATURAL RUBBER

(Tonnes)

Month	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p
April	29040	29385	33250	36025	37745	41770	45030	44800	45190	49705	51040	52875	54510	54130
May	29215	29910	32150	35875	38330	41525	45955	48600	46020	51290	51675	54505	56505	58095
June	29350	29820	33115	37730	39280	41140	46530	46050	48250	50315	53225	55010	56740	60275
July	31040	30515	33795	38270	39720	43455	48360	48320	47710	52115	53950	52655	58920	61450
August	29420	31320	33995	36650	39850	43265	47525	49810	47550	49775	52415	50820	57835	61205
September	29140	31850	33450	34380	39985	41250	47350	48455	49910	53460	51565	51010	57380	60310
October	30335	31660	34280	36820	38705	43955	45060	47450	48590	50315	51060	51335	57750	58325
November	31405	32410	35585	38200	40220	46480	46050	48150	52400	53670	55450	53150	58470	61405
December	31585	34175	35920	41450	43940	45650	48260	49350	53900	56505	56245	54425	59455	63205
January	31530	32410	36780	38635	44070	45485	48400	48310	51155	54310	52440	54950	60210	61175
February	30870	32960	35565	38160	41655	44410	45045	45275	48535	53195	50475	53045	59525	59825
March	31380	33735	36220	38285	42350	47180	47200	47250	52335	53455	51935	54430	58125	60200
Total	364310	380150	414105	450480	485850	525465	561765	571820	591545	628110	631475	638210	695425	719600
Annual growth rate	6.57	4.35	8.93	8.78	7.85	8.15	6.91	1.79	3.45	6.18	0.54	1.07	8.96	3.48

TABLE - 14

**TYPE-WISE CONSUMPTION OF NATURAL RUBBER**  
(Tonnes)

Type	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	2000-01	2001-02	2002-03	2003-04p
RSS grades	261780	272605	298090	332720	353730	383280	415220	419935	432695	462120	446150	492980	501625
Estate Brown Crepe	30367	32515	32205	28300	30940	27923	32350	30860	29435	31835	32785	33405	34030
Latex Concentrate(drc)	39865	42370	48600	52185	53985	57995	56255	58100	65430	66775	70870	72595	78660
Pale Latex Crepe & Sole Crepe	3307	3240	3075	3035	3085	2826	1780	1395	1920	2190	2250	2360	2515
Solid Block Rubber	27700	27855	30730	32560	42345	52205	55060	60780	61295	64385	61680	82850	98205
Others	1291	1565	1405	1680	1765	1236	1100	750	770	805	610	850	910
<b>Total</b>	<b>364310</b>	<b>380150</b>	<b>414105</b>	<b>450480</b>	<b>485850</b>	<b>525465</b>	<b>561765</b>	<b>571820</b>	<b>591545</b>	<b>628110</b>	<b>631475</b>	<b>695425</b>	<b>719600</b>

**Chart 5**  
**TYPE-WISE CONSUMPTION OF NR - 2003-04**

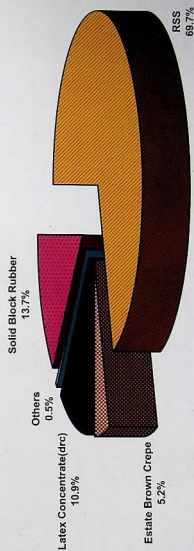




TABLE - 15

**STOCK OF NATURAL RUBBER WITH GROWERS, DEALERS AND MANUFACTURERS  
AT THE END OF EACH MONTH**

(Tonnes)

Month	1990-91			1995-96			2000-01			
	G & D	M	STC	T	G & D	M	T	G & D	M	T
April	25550	25185	24251	74986	29105	34615	63720	135278	49602	184880
May	26860	26600	21108	74568	31245	28510	59755	131517	48958	180475
June	23730	28790	19632	72152	28310	23960	52270	117945	50075	168020
July	23475	26965	13923	64363	29995	22800	52795	113355	44185	157540
August	26165	25760	13281	65206	35575	28490	64065	116395	34000	150395
September	35100	23750	16891	75741	51605	30960	82565	129010	27080	156090
October	40410	27940	16891	85241	62830	31500	94330	136715	32475	169190
November	50015	25965	16891	92871	71745	37365	109110	148580	36240	184820
December	55720	30720	16891	103331	78110	49240	127350	167950	35380	203330
January	59295	33580	16891	109766	81640	57125	138765	178540	43160	221700
February	42225	35795	18341	96361	66445	53935	120380	161980	41095	203075
March	30230	34045	22155	86430	50960	52230	103190	136310	47590	183900

Note: G - Growers, D - Dealers & Processors, M - Manufacturers, STC-State Trading Corporation of India, T- Total.  
Stock with manufacturers includes stock in transit as well as imported rubber.



TABLE - 15 (Contn.)

Month	2001-02			2002-03			2003-04p		
	G & D	M	T	G & D	M	T	G & D	M	T
April	133700	37490	171190	111200	65290	176490	61010	49725	110735
May	122530	38300	160830	100030	60950	160980	61255	43740	104995
June	106740	36575	143315	93835	52015	145850	55550	42830	98380
July	105425	31115	136540	83875	47335	131210	54080	33060	87120
August	106195	35520	141715	87595	41125	128720	51270	32490	83760
September	115715	37320	153035	91830	32520	124350	54765	28275	83040
October	133010	34580	167590	87335	34995	122330	61075	28320	89395
November	159425	36435	194860	100605	34590	135195	71720	31320	103040
December	181615	43885	225500	111145	40495	151640	84930	38410	123340
January	196840	51150	247990	119295	46575	165870	92675	43465	136140
February	172160	58875	229035	84280	57080	141360	60770	44390	105160
March	133490	59580	193070	65655	52340	117995	30660	47680	78340

TABLE - 16

## MONTH-WISE PRODUCTION OF SYNTHETIC RUBBER

(Tonnes)

Month	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03p	2003-04p
April	4090	4391	3615	4069	4208	4695	4861	4401	5296	5680	6040
May	2973	4359	4801	5635	6121	5964	5453	2913	5218	6497	6548
June	3879	5664	6415	4323	6157	5632	5528	6136	5478	6791	5867
July	4057	5803	7118	6370	5893	5793	5943	5751	5199	5904	7883
August	3088	6278	7137	5872	7342	6761	5540	5819	5568	7505	7029
September	4746	5343	4402	4325	6097	4592	5321	5443	5536	6715	8402
October	2878	3401	5975	3286	6174	4953	4390	5308	6680	6247	6954
November	5423	6133	5021	6123	6287	5827	5087	5083	5846	6370	7797
December	5410	6927	6826	5770	7199	5745	5382	6563	6267	7209	7780
January	5766	6245	5301	7347	5645	5558	4001	6504	5880	7800	8551
February	4781	4557	5666	5690	5121	5461	3895	5597	5975	6642	7563
March	2542	4580	6146	5753	5949	6619	4832	5942	6730	7041	8132
Total	49633	63681	68223	64563	71993	67590	60293	65460	69653	80401	88366

TABLE - 17

# TYPE-WISE PRODUCTION OF SYNTHETIC RUBBER (Tonnes)

Type	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03p	2003-04f
SBR 1502	4620	9289	11608	9897	6243	3035	239	--	--	--	--
SBR 1712	1646	5425	7645	6265	5031	1183	--	--	--	--	--
SBR 1958*	22667	21773	17704	20529	17770	15139	12322	12482	15197	15363	16620
Latex(drc)*	2153	3044	3389	4064	3038	1984	1411	1422	1642	1490	2424
Nitrile	2592	2614	2837	4300	3619	4445	5280	5151	6275	6781	6887
Polybutadiene	14728	19320	21442	15547	32789	36760	35750	40670	41994	50977	55652
EPDM	1170	2194	3598	3597	3136	4619	4811	4304	3835	5010	6003
Others	57	22	--	364	367	425	480	1431	710	780	780
Total	49633	63681	68223	64563	71993	67590	60293	65460	69653	80401	88366
Annual growth rate(%)	-14.27	28.30	7.13	-5.36	11.51	-6.12	-10.80	8.57	6.41	15.43	9.91

@ including HSR

\* includes SBR Latex, VP Latex and Nitrile Latex.

TABLE - 18

# TYPE-WISE CONSUMPTION OF SYNTHETIC RUBBER (Tonnes)

Type	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03p
Styrene butadiene rubber @	46310	48850	51920	54424	55220	51245	53790	54935	55945	65110
Polybutadiene	31580	36195	38700	42033	50250	44040	49245	49810	49995	55170
Butyl	21819	22782	24645	26845	32110	35910	37825	39940	40385	44850
Polychloroprene	3187	3162	3795	3852	4610	4680	5115	5310	5655	5450
Nitrile	3949	4148	4790	4880	5835	6455	6605	5875	6405	7055
Latex(drc)	3593	3955	4320	4740	5070	5050	5025	5030	5180	5605
EPDM	1457	2018	3200	3400	4265	5985	6190	5920	6430	6730
Others*	1500	1800	2715	2636	3555	3050	3325	3850	4535	4880
<b>Total</b>	<b>113395</b>	<b>122710</b>	<b>134085</b>	<b>142810</b>	<b>160915</b>	<b>156395</b>	<b>167220</b>	<b>170670</b>	<b>174530</b>	<b>194850</b>
Annual growth rate	<b>4.33</b>	<b>8.21</b>	<b>9.27</b>	<b>6.51</b>	<b>12.68</b>	<b>-2.81</b>	<b>6.92</b>	<b>2.06</b>	<b>2.26</b>	<b>11.64</b>

@ : Include SBR latex.

\* : Include unclassified rubber also.

TABLE-19

**STOCK OF SYNTHETIC RUBBER AT THE END OF EACH MONTH**  
(Tonnes)

Month	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03p
April	14680	14070	14700	20455	31420	29420	41020	44500	45180	51395
May	16850	14485	14485	20785	30940	31980	39350	44180	43440	52900
June	18380	15955	14810	23325	32180	31630	39980	46875	42070	54445
July	17920	16050	16110	23230	32735	33895	40920	47900	44435	57125
August	15675	17420	17500	23885	31630	36390	40530	47210	46255	60995
September	16890	16930	16300	24110	30825	34675	40820	47530	46245	63320
October	14900	15190	16820	24160	28690	34240	37805	47010	46710	67410
November	16790	16120	17195	25175	27435	36640	37920	46180	47775	68665
December	16400	17190	17400	24740	27075	37960	40495	45655	48225	68520
January	16790	18200	16380	27110	26005	38150	39690	47040	49010	68995
February	16825	17235	16100	27825	27385	40440	39785	46240	49840	65625
March	14685	20285	18760	31560	29030	42410	43505	45220	51930	67385

TABLE - 20

**PRODUCTION, IMPORT, CONSUMPTION AND EXPORT  
OF RECLAIMED RUBBER**

(Tonnes)

Year	Production	Import	Consumption	Export
1960-61	2000	3024	5453	--
1970-71	15507	--	14348	259
1980-81	29336	--	26850	1127
1981-82	28787	--	28160	896
1982-83	28242	--	29190	520
1983-84	32964	--	30690	524
1984-85	34155	--	34625	446
1985-86	39195	--	38215	201
1986-87	38995	--	38635	188
1987-88	40535	--	41140	278
1988-89	40960	--	42450	699
1989-90	47615	--	46300	752
1990-91	53629	--	52500	985
1991-92	54185	--	54015	573
1992-93	61490	--	62470	379
1993-94	62780	--	63110	810
1994-95	64425	--	64655	1928
1995-96	65780	--	65775	2078
1996-97	66670	--	66585	3306
1997-98	69840	--	70085	2271
1998-99	63980	--	63095	1252
1999-00	64080	--	63450	2184
2000-01	62120	--	62260	3349
2001-02	63550	--	63875	5766
2002-03	67385	--	67320	7625
2003-04p	70990	--	70460	9462

TABLE-21

**PRODUCTION, IMPORT, EXPORT AND CONSUMPTION OF NATURAL AND SYNTHETIC RUBBER**  
(Tonnes)

Year	PRODUCTION			IMPORT			EXPORT		CONSUMPTION		
	Natural	Synthetic	Total	Natural	Synthetic	Total	Natural	Synthetic	Natural	Synthetic	Total
1960-61	25697		25697	23125	8097	31222			48148	7397	55545
1970-71	92171	29791	121962	2469	5014	7483			87237	33160	120397
1980-81	153100	25293	178393	9250	17492	26742			173630	47050	220680
1981-82	152870	28499	181369	42750	29659	72409			188420	52650	241070
1982-83	165850	30290	196140	33401	24394	57795			195545	55250	250795
1983-84	175280	32270	207550	35940	23287	59227			209480	62300	271780
1984-85	186450	37669	224119	37461	30248	67709			217510	65400	282910
1985-86	200465	34758	235223	41431	39086	80517			237440	70035	307475
1986-87	219520	38816	258336	45356	32600	77956			257305	71785	329090
1987-88	235197	44468	279665	53885	30100	83785			287480	76410	363890
1988-89	259172	54389	313561	59835	33950	93785			313830	84150	397980
1989-90	297300	53482	350782	44445	39000	83445			341840	93550	435390
1990-91	329615	57293	386908	49013	51715	100728			364310	104735	469045
1991-92	366745	57726	424471	15070	39210	54280	5834		380150	105650	485800
1992-93	393490	57892	451382	17884	47362	65246	5999		414105	108690	522795
1993-94	435160	49633	484793	19940	64338	84278	186		450480	113395	563875
1994-95	471815	63681	535496	8093	73860	81953	1961		485850	122710	608560
1995-96	506910	68223	575133	51635	71735	123370	1130		525465	134085	659550
1996-97	549425	64563	613988	19770	91050	110820	1598		561785	142810	704575
1997-98	583830	71993	655823	32070	86389	118459	1415		571820	160915	732735
1998-99	605045	67590	672635	29534	97548	127082	1840		591545	156395	747940
1999-00	622265	60293	682558	20213	104842	125055	5989		628110	167220	795330
2000-01	630405	65460	695865	8970	106923	115993	13356		631475	170670	802145
2001-02	631400	69653	701053	49789	111572	161341	6995		638210	174530	812740
2002-03p	649435	80401	729836	26217	123902	156119	55311		695425	194850	890275
2003-04p	711650	88366	800016	44189	173784	217983	75905		719600	210160	929760



TABLE - 22

**TOTAL STOCK OF NATURAL AND SYNTHETIC RUBBER WITH PRODUCERS,  
DEALERS AND MANUFACTURERS AT THE END OF EACH MONTH  
(Tonnes)**

Month	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03p
April	83220	85970	78420	117795	136860	175865	223180	229390	216370	227985
May	88200	88070	74240	118685	136650	180910	208620	224655	204270	213880
June	79705	76805	67080	112775	135015	174220	198175	214895	185385	200295
July	70500	65420	68905	101945	127150	169840	189955	205440	180075	188335
August	69435	63685	81565	96795	122250	174790	194340	197605	187970	189715
September	85480	71490	98865	102010	131060	175005	201055	203620	199280	187670
October	89205	85685	111150	112380	142900	185450	209605	216200	214300	189740
November	101455	99695	126305	130995	159570	207860	232855	231000	242635	203860
December	112830	111250	144750	148170	184025	232035	255585	248985	273725	220160
January	122700	119175	155145	163705	201860	254260	270730	268740	297000	234865
February	106735	100785	136480	148510	188775	240825	250055	249315	278875	206985
March	91680	89635	121950	138870	176330	230375	236075	229120	245000	185380



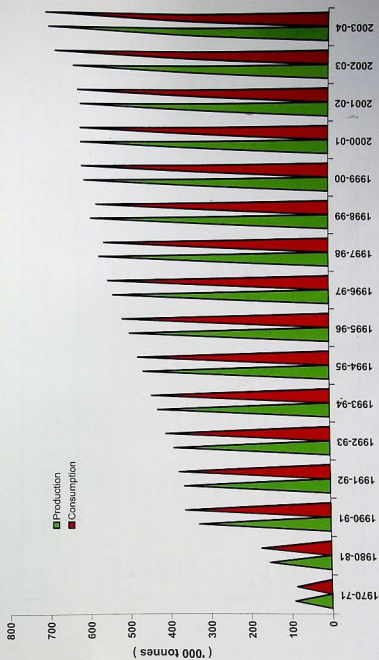
TABLE - 23

**PRODUCTION, IMPORT, EXPORT, CONSUMPTION AND STOCK OF NATURAL RUBBER**  
(Tonnes)

Year	Production	Annual growth rate	Import	Total Supply	Export	Consumption	Annual growth rate	Total Demand	Excess(+) / Deficiency(-) compared with demand	Stock at the end of the period
1960-61	25697	6.30	23125	48822		48148	18.91	48148	+ 674	9875
1970-71	92171	12.47	2469	94640		87237	1.19	87237	+ 7403	39109
1980-81	153100	3.12	9250	162350		173630	5.07	173630	- 11280	33700
1990-91	329615	10.87	49013	378628		364310	6.57	364310	+14318	86430
1991-92	366745	11.26	15070	381815	5834	380150	4.35	385984	- 4169	81250
1992-93	393490	7.29	17884	411374	5999	414105	8.93	420104	- 8730	71140
1993-94	435160	10.59	19940	455100	186	450480	8.78	450666	+ 4434	77015
1994-95	471815	8.42	8093	479908	1961	485650	7.85	487811	- 7903	69550
1995-96	506910	7.44	51635	558545	1130	525465	8.15	526595	+ 31950	103190
1996-97	549425	8.39	19770	569195	1598	561785	6.91	563363	+ 5832	107310
1997-98	583930	6.26	32070	615900	1415	571820	1.79	573235	+ 42665	147300
1998-99	605045	3.63	29534	634579	1840	591545	3.45	593385	+ 41194	187965
1999-00	622265	2.85	20213	642478	5989	628110	6.18	634099	+ 8379	192570
2000-01	630405	1.31	8970	639375	13356	631475	0.54	644831	- 5456	183900*
2001-02	631400	0.16	49769	681169	6995	638210	1.07	645205	+35964	193070*
2002-03p	649435	2.86	26217	675652	55311	695425	8.96	750736	-75084	117995*
2003-04p	711650	9.58	44199	755849	75905	719600	3.48	795505	-39656	78340*

\*including year end adjustment

**Chart 6**  
**PRODUCTION AND CONSUMPTION OF NR**



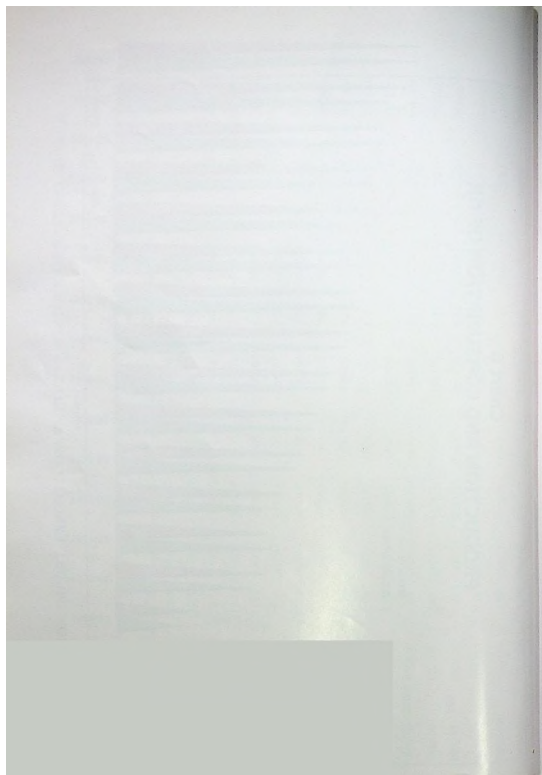


TABLE - 24

**PRODUCTION, IMPORT, CONSUMPTION AND STOCK OF  
SYNTHETIC RUBBER**  
(Tonnes)

Year	Production	Import	Total	Consumption	Excess(+) / Deficiency(-) compared with demand	Stock at the end of the period
1970-71	29791	5014	34805	33160	+ 1645	13994
1980-81	25293	17492	42785	47050	- 4265	10900
1990-91	57293	51715	109008	104735	+ 4273	19500
1991-92	57728	39210	96936	105650	- 8714	11470
1992-93	57892	47362	105254	108690	- 3436	12390
1993-94	49633	64338	113971	113305	+ 576	14665
1994-95	63681	73860	137541	122710	+ 14831	20285
1995-96	68223	71735	139958	134085	+ 5873	18760
1996-97	64563	91050	155613	142810	+ 12803	31560
1997-98	71993	86389	158382	160915	- 2533	29030
1998-99	67590	97548	165138	156395	+ 8743	42410
1999-00	60293	104842	165135	167220	- 2085	43505
2000-01	65460	106923	172383	170670	+ 1713	45220
2001-02	69653	111572	181225	174530	+ 6695	51930
2002-03p	80401	129902	210303	194850	+ 15453	67385
2003-04p	88366	173784	262150	210190	+ 51960	119345

TABLE - 25

STATE-WISE CONSUMPTION OF ALL KINDS OF RUBBER  
(Tonnes)

State/Union Territory	1970-71			1975-76			1980-81		
	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total	Total
Andhra Pradesh	+	+	+	+	+	+	+	+	2659
Delhi	1956	199	96	2251	4168	591	196	4955	8754
Goa & Daman	+	+	+	+	3483	268	78	3829	2814
Gujarat	1192	161	45	1398	2138	447	230	2815	4177
Haryana	4475	2439	193	7107	11110	3109	698	14917	20943
Karnataka	631	609	358	1598	1920	953	644	3517	8413
Kerala	6739	1798	380	8917	9268	1062	1069	11399	26249
Maharashtra	19696	9897	3231	32824	28400	10668	4612	43680	50545
Punjab	2277	206	269	2752	5743	227	206	6176	17260
Rajasthan	+	+	+	+	+	+	+	+	7989
Tamil Nadu	17548	5966	2628	26142	20900	4140	3526	28566	24483
Uttar Pradesh	1160	153	59	1372	9672	1363	501	11536	29236
West Bengal	30988	11634	7015	49637	27300	9090	7482	43872	42756
Others	575	98	74	747	1590	534	100	2224	1252
<b>Total</b>	<b>87237</b>	<b>33160</b>	<b>14348</b>	<b>134745</b>	<b>125692</b>	<b>32452</b>	<b>19342</b>	<b>177486</b>	<b>247530</b>

+\*: Included in others.

Note: In 1975-76 consumption of rubber by M/S MRF Ltd. at their Kottayam unit was included in Tamil Nadu, but from 1980-81 onwards it is included in Kerala.

TABLE - 25(Contn.)

State/Union	1985-86			1990-91			1995-96		
	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total	Total
Andhra Pradesh	4538	901	439	5878	8907	2594	1743	13244	28703
Bihar	+	+	+	+	+	+	+	+	1698
Delhi	10209	1654	552	12415	15613	3747	1804	21164	24436
Goa & Daman	4180	1683	162	6025	6214	1501	667	8382	14825
Gujarat	4962	780	293	6035	6889	1402	1021	9312	30018
Haryana	18780	7025	925	26730	22728	7106	1373	31207	41239
Karnataka	11670	5119	1912	18701	16978	6602	2267	25647	35903
Kerala	28341	5896	3375	37612	55365	15232	5015	75612	104159
Madhya Pradesh	920	297	24	1241	4120	1040	1151	6311	24352
Maharashtra	37351	14966	6550	58867	47219	21370	8729	77318	97412
Orissa	+	+	+	+	+	+	+	+	21464
Pondicherry	+	+	+	+	+	+	+	+	3925
Punjab	27172	3845	10637	41654	46158	3735	12917	62810	83251
Rajasthan	12259	3623	207	16089	17936	6932	567	25435	28851
Tamil Nadu	19097	7340	3150	29587	21213	11254	4428	36895	41294
Uttar Pradesh	29458	6889	4523	40870	46795	11366	5870	64061	87290
West Bengal	27538	9091	5445	42074	42292	9635	4794	56721	54671
Others	965	926	21	1912	5883	1189	154	7226	1834
Total	237440	70035	38215	345690	364310	104735	52500	521545	725325

TABLE - 25 (Contn.)

State/Union Territory	2000-01				2001-02				2002-03p			
	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total
Andhra Pradesh	19906	9330	3166	32402	16961	7013	3605	27579	21143	7937	4479	33559
Bihar	1304	317	186	1807	1406	315	188	1909	1414	322	148	1884
Delhi	18360	2176	1478	22014	17942	2233	1443	21618	17716	2083	1284	21083
Goa & Daman	23552	8556	974	33082	14808	10533	751	26092	18266	14004	697	32967
Gujarat	35107	6213	1622	42942	39223	6959	1928	48110	39707	7868	1864	49239
Haryana	38638	7596	1424	47658	40311	7077	1442	48830	46392	6631	1413	54436
Karnataka	31233	9312	4476	45021	38402	12218	5150	55770	45844	14382	6010	66236
Kerala	88221	32978	6773	127972	100163	32114	6583	138860	126100	36438	8861	169399
Madhya Pradesh	27792	11404	3159	42295	31143	11966	3273	45382	31894	13370	3302	48566
Maharashtra	69344	25989	8322	102655	79316	29439	8670	116425	84685	33654	8825	127164
Orissa	24072	4907	692	29671	23973	1092	531	29206	25511	5299	491	31301
Pondicherry	2531	718	34	3283	3140	1090	84	4314	3264	1690	83	5037
Punjab	82843	8001	16542	107386	83559	8485	17562	109606	85537	8935	18446	112918
Rajasthan	35867	8423	465	44755	35691	8333	564	44788	41056	9003	1223	51282
Tamil Nadu	32588	11539	4119	48246	29598	11276	4393	45267	32754	14026	4869	51649
Uttar Pradesh	55604	12945	4178	72807	40088	9431	3347	52866	32897	7637	3126	43660
West Bengal	43258	10217	4603	58078	40894	11289	4312	56495	39004	11519	4353	54876
Others	22305	49	47	2331	2392	57	49	2498	2241	52	46	2339
Total	631475	170670	62260	864405	638210	174530	63875	876615	695425	194850	67320	957595

TABLE - 26

## VALUE OF NATURAL RUBBER IMPORTED FROM VARIOUS COUNTRIES

('000 Rs)

Country	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p
China	8903	56016	--	2614	5745	4975	17	767	--	2214
Indonesia	24739	70181	17928	119429	88911	53004	27960	181686	167159	330766
Malaysia	125420	1141140	325100	423509	198578	94027	90242	566886	277285	1062183
Myanmar	--	7837	--	12902	44422	20161	6926	35536	2091	10487
Singapore	12348	317905	82858	26832	84364	29499	18177	62030	35129	12808
Sri Lanka	7205	214590	216554	87125	41458	46717	13774	22253	17988	20402
Thailand	84153	906974	331804	524961	371530	247477	87944	502364	401996	632531
Vietnam	--	--	--	5051	14658	60467	30736	40077	64761	84650
Others	9348	69780	30128	14196	60996	16877	28057	33048	26595	45251
<b>Total</b>	<b>272116</b>	<b>2784423</b>	<b>1004372</b>	<b>1216619</b>	<b>911662</b>	<b>573204</b>	<b>303833</b>	<b>1444647</b>	<b>993004</b>	<b>2201392</b>

Source: "Monthly Statistics of Foreign Trade of India", published by DGCI &amp; S, Kolkata.



TABLE - 27

**VALUE OF SYNTHETIC AND RECLAIMED RUBBER\* IMPORTED FROM VARIOUS COUNTRIES**  
(<sup>'000 Rs</sup>)

Country	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03p	2003-04p
U.S.A	194740	342214	379592	337586	240005	333813	368800	388699	381464	661908
Canada	49011	142302	149857	286420	387987	503563	564560	204214	111690	10217
Germany(FR)	300791	315298	356867	320315	309669	486823	381012	466159	413821	492405
U. K	82574	70279	125816	163121	145869	233476	236540	184450	306801	483678
France	519020	673397	944163	827480	575273	592979	592781	667409	727230	781246
Netherlands	12488	23384	41510	36726	38746	113970	62789	173649	154233	216014
Belgium	464586	290710	522586	132436	36594	68443	72333	167915	198171	180419
Japan	1152612	1387977	1365998	1268458	1373712	1174021	1509763	1095054	1067034	1295702
Others	667196	1164116	1418305	1384464	2103575	2147994	2875793	3553343	4476312	6543066
<b>Total</b>	<b>3443218</b>	<b>4409677</b>	<b>5304694</b>	<b>4757006</b>	<b>5211430</b>	<b>5655082</b>	<b>6664371</b>	<b>6900892</b>	<b>7836756</b>	<b>10664655</b>

\* including waste and scrap of unhardened rubber

Source: "Monthly Statistics of Foreign Trade of India", published by DGCI &amp; S, Kolkata.

**Chart 7**  
**PRICE OF INDIGENOUS RSS4 GRADE RUBBER**  
**(At Kottayam Market )**

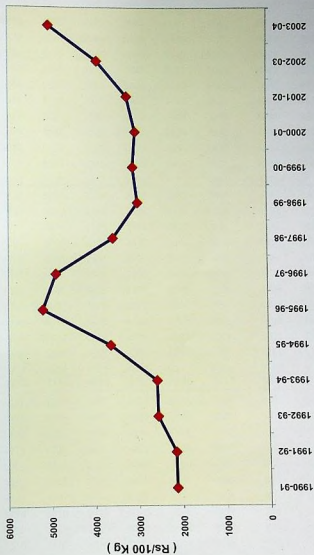




TABLE - 28

## PRICE OF DIFFERENT GRADES OF NATURAL RUBBER

(Rs. per 100 Kg. in Kottayam Market)

Month/ Year		RSS 1	RSS 2	RSS 3	RSS 4	RSS 5	EB 2X	LATEX ISNR 20 (60% drc)	
1990-91		2276	2225	2182	2129	2046	1934	4210	2027
1991-92		2285	2235	2179	2141	2081	1741	3688	1989
1992-93		2739	2676	2616	2550	2446	2121	4096	2468
1993-94		2803	2706	2637	2569	2496	2253	4423	2472
1994-95		3968	3845	3803	3638	3517	3093	5061	3431
1995-96		5758	5397	5266	5204	5010	4726	7848	4893
1996-97		5381	5188	5013	4901	4720	4421	6255	4578
1997-98		4115	3927	3734	3580	3445	3245	5386	3387
1998-99		3553	3362	3136	2994	2856	2648	4443	2759
1999-2000		3538	3415	3272	3099	2955	2845	4091	2920
2000-01		3513	3353	3205	3036	2909	2801	4560	2840
2001-02		3558	3455	3343	3228	3081	2658	4371	2819
April	2002	3738	3638	3538	3389	3101	2915	4741	3163
May	"	3960	3860	3760	3589	3219	3085	5131	3257
June	"	4315	4215	4115	3979	3625	3416	5748	3594
July	"	4206	4106	4006	3830	3549	3356	5860	3535
August	"	4106	4006	3906	3732	3484	3239	4987	3424
September	"	4148	4048	3948	3765	3622	3390	4879	3608
October	"	4038	3938	3838	3667	3515	3298	4908	3511
November	"	4007	3907	3807	3677	3564	3311	4908	3499
December	"	4516	4416	4316	4196	3911	3696	5235	3960
January	2003	4704	4604	4504	4300	4077	3967	5601	4182
February	"	4753	4653	4553	4384	4280	4170	5725	4323
March	"	4903	4803	4703	4517	4372	4313	5792	4417
Average		4283	4183	4083	3919	3693	3513	5293	3706
April	2003	5467	5367	5267	5074	4943	4892	6002	5023
May	"	5175	5075	4975	4851	4749	4652	6317	4695
June	"	5176	5076	4976	4829	4719	4712	6317	4765
July	"	4815	4735	4635	4453	4286	4283	6203	4282
August	"	5024	4924	4824	4693	4490	4402	5853	4404
September	"	5152	5052	4952	4849	4655	4506	6004	4533
October	"	5494	5394	5294	5155	4978	4858	6571	5002
November	"	5716	5616	5516	5346	5148	5124	7164	5260
December	"	5659	5559	5459	5315	5092	5038	6873	5156
January	2004	5510	5410	5310	5153	5014	4997	6840	5071
February	"	5587	5487	5387	5192	5087	4980	6752	5130
March	"	5944	5844	5744	5567	5436	5389	6882	5489
Average		5393	5295	5195	5040	4883	4819	6482	4901

Note: RMA 1X, RMA 1, RMA 2, RMA 3, RMA 4 and RMA 5 are changed to RSS 1X, RSS 1, RSS 2, RSS 3, RSS 4 and RSS 5 respectively vide Gazette Notification No. G.S.R.561(E) dated 5th July 1994, issued by Ministry of Commerce, Govt. of India.

TABLE - 29

## AVERAGE PRICE OF INDIGENOUS SYNTHETIC RUBBER

(Rs. per 100 kg)

Year	Styrene butadiene (Ex-Bareilly price)		Poly butadiene (Ex-Baroda Price)	
	1500/1502	1712	1958	1203/1220
1965-66	385	340	565	---
1970-71	440	390	680	---
1975-76	779	720	1370	---
1980-81	1507	1317	2019	1224
1985-86	2350	2110	2736	1928
1990-91	4010	3700	4340	2903
1991-92	4899	4536	5177	3632
1992-93	5184	4824	5463	4000
1993-94	5181	4770	5389	4200
1994-95	4764	4269	5494	4200
1995-96	6212	5629	7105	6048
1996-97	5967	5375	7000	6071
1997-98	4734	4279	6623	5200
1998-99	5076	4569	6543	4525
1999-00	5400	4800	6400	4460
2000-01	---	---	---	5403
2001-02	---	---	---	4925
2002-03	---	---	---	5250
2003-04	---	---	---	6056

Note: The prices are exclusive of excise duty and other taxes.

No production of Styrene Butadiene rubber(1500/1502/1712/1958 grades) since July 1999.

Source: M/s. Synthetics & Chemicals Ltd. and Indian Petro Chemicals Corporation Ltd.

TABLE - 30

**DISTRIBUTION OF MANUFACTURERS ACCORDING TO THEIR TOTAL CONSUMPTION OF RUBBER**  
(Consumption in tonnes)

Consumption Group	No. of Manufacturers	1970-71			No. of Manufacturers	1975-76			Total	
		CONSUMPTION				CONSUMPTION				
		Natural	Synthetic	Reclaimed		Natural	Synthetic	Reclaimed		
A	847	2168	445	173	2786	1097	5133	671	486	6290
B	280	5862	1210	415	7487	503	12127	1819	1030	14976
C	62	3407	1173	399	4979	135	9178	1597	628	11403
D	68	9577	3270	1666	14513	84	13425	3646	2168	19239
E	13	6138	1802	1953	9893	10	4830	824	1450	7104
F	11	60085	25260	9742	95087	15	80999	23895	13590	118474
Total	1281	87237	33160	14348	134745	1844	125692	32452	19342	177486

Consumption Group	No. of Manufacturers	1980-81			No. of Manufacturers	1985-86			Total	
		CONSUMPTION				CONSUMPTION				
		Natural	Synthetic	Reclaimed		Natural	Synthetic	Reclaimed		
A	1696	4202	597	496	5295	1955	7951	1356	774	10081
B	817	17016	2831	2116	21963	1318	25805	4108	3792	33705
C	159	9944	2901	2431	15276	241	14356	4951	3030	22337
D	112	17783	5834	3830	27447	201	32821	13340	5157	51318
E	18	9674	2731	1771	14176	21	8263	4106	3203	15572
F	24	115011	32156	16206	163373	33	148244	42174	22259	212677
Total	2826	173630	47050	26850	247530	3769	237440	70035	38215	345690

Note : Regarding Consumption Group, see page 38.

TABLE - 30(Contn.)

Consumption Group	No. of Manufacturers	1990-91				No. of Manufacturers	2000-01			
		CONSUMPTION					CONSUMPTION			
		Natural	Synthetic	Reclaimed	Total		Natural	Synthetic	Reclaimed	Total
A	2666	11023	3199	1625	15847	1967	11250	2528	1110	14888
B	1639	38447	11043	5724	55214	2039	62995	12827	5277	81099
C	335	19062	5810	3503	28375	549	36812	10354	5024	52190
D	291	56490	18640	10570	85700	394	89520	30015	20481	140016
E	34	18892	4731	1840	25463	56	33831	4768	1095	39694
F	43	220396	61312	29238	310946	57	397087	110178	29273	536518
Total	5028	364310	104735	52500	521545	5062	631475	170670	62260	864405

Consumption Group	No. of Manufacturers	2001-02					No. of Manufacturers	2002-03p				
		CONSUMPTION						CONSUMPTION				
		Natural	Synthetic	Reclaimed	Total	Total		Natural	Synthetic	Reclaimed	Total	
A	1991	11494	2637	926	15057	1894	11892	2652	736	15280		
B	1996	65875	14797	4901	85573	1939	70874	15167	4211	90252		
C	596	40522	10900	5133	56555	613	42040	11393	4668	58101		
D	374	88017	34027	18362	140406	375	86124	37355	20089	143568		
E	45	26317	3917	1607	31841	44	24684	3720	1636	30040		
F	64	405985	108252	32946	547183	66	459811	124563	35980	620354		
Total	5066	638210	174530	63875	876615	4931	695425	194850	67320	957595		

Note:- A: 10 tonnes and below, B: above 10 tonnes and upto and including 50, C: above 50 tonnes and upto and including 100, D: above 100 tonnes and upto and including 500, E: above 500 tonnes and upto and including 1000, F: above 1000 tonnes.

**Chart 8**  
**NUMBER OF RUBBER GOODS MANUFACTURERS**





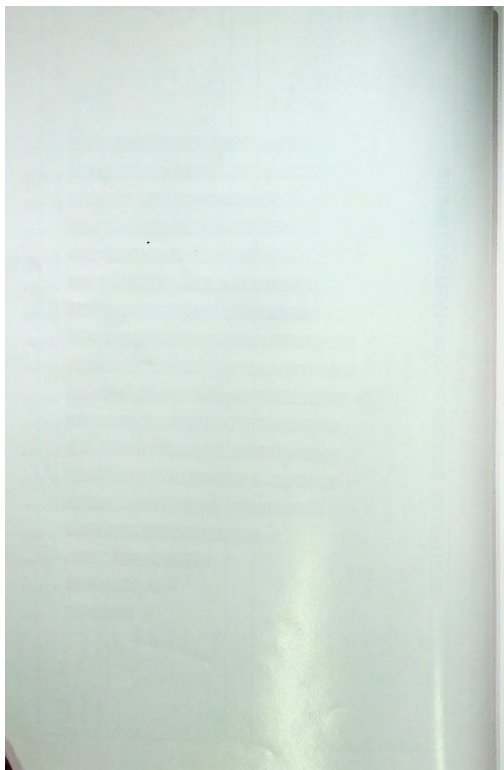


TABLE - 31

## NUMBER OF LICENSED MANUFACTURERS IN DIFFERENT STATES AT THE END OF EACH YEAR

State/ Union Territory	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04 <sup>p</sup>
Kerala	816	947	994	1021	1026	974	891	908	854	851
Maharashtra	569	613	627	629	617	623	612	624	578	563
Punjab*	538	623	608	611	593	552	554	539	522	488
Tamil Nadu	491	537	533	545	523	506	502	503	486	483
West Bengal	494	512	531	508	506	484	447	437	435	409
Uttar Pradesh	504	486	465	475	464	450	438	439	439	430
Gujarat	304	414	427	432	422	395	378	377	381	368
Delhi	377	358	333	309	305	297	276	242	220	206
Haryana	252	305	298	313	315	311	289	307	324	324
Karnataka	221	253	252	258	249	249	228	219	203	194
Andhra Pradesh	158	174	173	161	157	140	139	155	160	160
Madhya Pradesh	85	96	92	91	91	91	88	86	82	77
Rajasthan	66	105	105	98	93	92	87	99	111	109
Bihar	47	37	38	34	33	33	34	28	27	27
Goa	24	19	20	31	24	28	25	31	33	33
Orissa	19	17	17	16	16	16	14	13	13	12
Himachal Pradesh	12	13	12	8	7	8	6	10	8	8
Assam	3	4	4	6	6	5	6	7	8	9
Others	48	59	59	49	46	49	47	44	47	40
<b>Total</b>	<b>5028</b>	<b>5572</b>	<b>5588</b>	<b>5595</b>	<b>5494</b>	<b>5303</b>	<b>5062</b>	<b>5066</b>	<b>4931</b>	<b>4791</b>

\* includes Chandigarh.

TABLE-32

## PRODUCTION OF TYRES

('000 numbers)

Year	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p
Truck & Bus	5258	7696	8095	8058	7913	8969	8612	8474	9863	10821
Tractor	1373	2325	2083	2074	2147	2400	2315	2255	2420	2405
Car	2472	3324	3888	4263	4571	6054	6813	7481	8544	9959
Jeep	596	881	1098	1342	1247	1283	1155	1247	1384	1440
CV	870	1177	1833	1903	1917	1980	2108	2352	2844	3271
Motor Cycles	1961	3788	4457	5582	7277	9275	11196	12275	15655	16688
Scooter	4466	9853	9545	9577	10975	10140	9385	8547	9875	9274
Other	555	833	795	400	234	516	119	135	185	168
D.V	469	673	581	528	593	589	511	488	456	295
TR	32	36	30	37	37	36	38	46	51	74
Other	15	7	0	0	0	0	0	0	0	0
Industrial	8	95	66	143	137	172	219	214	309	295
Total	18075	30688	32471	33907	37048	41414	42471	43514	51586	54690

Source: Automotive Tyre Manufacturers' Association, New Delhi.

TABLE-33

## PRODUCTION OF TUBES

('000 numbers)

Year	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p
Truck & Bus	4237	4923	5961	6503	6781	7382	7465	7291	7852	8851
Tractor	826	995	953	1088	1221	1259	1108	925	824	906
Car	2156	2604	3061	3518	3563	3949	4322	4277	4728	5331
Jeep	430	653	811	1153	1133	1046	939	972	1036	1056
LCV	693	969	1323	1422	1416	1614	1758	1835	2133	2633
Motor Cycles	1412	2574	3290	5272	6507	7771	9772	11372	13978	15415
ScOOTer	2215	4375	4526	5369	6903	5753	5531	5122	5750	5624
Moped	398	561	630	208	224	564	223	151	176	270
A.D.V	377	259	250	234	295	268	259	216	231	187
OTR	16	16	4	8	9	12	9	13	15	19
Aero	1	1	0	0	0	0	0	0	0	0
Industrial	7	30	24	42	29	33	48	61	65	50
Total	12768	17960	20833	24817	28081	29651	31434	32235	36788	40342

Source: Automotive Tyre Manufacturers' Association, New Delhi.

TABLE - 34

## PRODUCTION OF VEHICLES

('000 numbers)

Year	Commercial vehicles	Tractors	Cars	Jeeps/ multi-utility	Motor Cycles	Scooters	Three Wheelers	Mopeds	Total
1990-91	145	139	182	37	470	910	89	440	2412
1991-92	143	148	166	32	431	768	77	407	2172
1992-93	128	148	163	39	384	706	65	413	2047
1993-94	141	138	208	50	462	833	92	460	2384
1994-95	195	163	264	50	648	1031	129	517	2996
1995-96	259	191	348	68	809	1226	173	623	3698
1996-97	237	226	408	135	989	1323	222	669	4207
1997-98	161	256	401	135	1126	1280	235	667	4260
1998-99	136	254	390	113	1387	1315	209	672	4477
1999-00	175	257	574	124	1794	1259	206	725	5115
2000-01	152	248	518	126	2183	880	203	695	5005
2001-02	163	207	564	106	2906	938	213	465	5561
2002-03p	203	157	606	115	3915	850	271	345	6461

Source: Automotive Component Manufacturers' Association of India, New Delhi.

TABLE - 35

## REGISTERED MOTOR VEHICLES IN INDIA

('000 numbers)

Year	Two wheelers	Cars, Jeeps & taxis	Buses	Goods Vehicles	*Others	Total
1990-91	14200	2954	331	1356	2533	21374
1991-92	15861	3205	358	1514	2769	23507
1992-93	17183	3361	364	1603	2994	25505
1993-94	18899	3569	392	1691	3109	27660
1994-95	20831	3841	423	1794	3406	30295
1995-96	23252	4204	449	2031	3850	33786
1996-97	25729	4672	484	2343	4104	37332
1997-98	28642	5138	538	2536	4514	41368
1998-99	31328	5556	540	2554	4897	44875
1999-00	34118	6143	562	2715	5319	48857
2000-01	38556	7058	634	2948	5795	54961
2001-02	41478	7571	669	3045	6100	58663
2002-03p	45362	8214	694	3200	6384	63844

\* : Others include Tractors, Trailors and Three wheelers.

Source: Automotive Component Manufacturers' Association of India (ACMA), New Delhi.

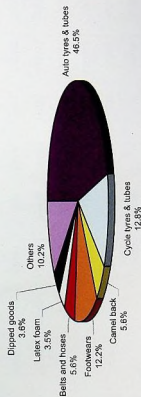
TABLE - 36

# CONSUMPTION OF ALL KINDS OF RUBBER ACCORDING TO END PRODUCTS (Tonnes)

Products	1985-86			1990-91			1995-96					
	NR	SR	RR	Total	NR	SR	RR	Total	NR	SR	RR	Total
1. Auto tyres & tubes*	114031	36007	7381	157419	161578	52935	7607	222120	245654	74926	8859	329439
2. Cycle tyres & tubes	28915	9220	9972	49107	50180	10929	16344	77453	66358	11778	21519	99655
3. Camel back	15047	4142	2943	22132	25440	5414	3498	34352	32316	6503	4002	42821
4. Footwears	24194	9645	5245	39084	37574	19251	6819	63644	52003	23541	8513	84057
5. Belts and hoses	15870	4372	2856	23098	25583	7194	3610	36387	35838	7107	4519	47464
6. Latex foam	11396	--	--	11396	19598	--	--	19598	28633	--	--	28633
7. Cables and wires	1004	708	259	1971	1252	1154	590	2996	1494	1372	862	3728
8. Battery boxes	890	1128	5720	7738	1265	2038	8235	11538	1784	2387	10318	14489
9. Dipped goods	9050	--	--	9050	15578	--	--	15578	24947	--	--	24947
10. Others	16043	4813	3839	24695	26262	5820	5797	37879	36438	6471	7183	50092
Total	237440	70035	38215	345690	364310	104735	52500	521545	525465	134085	65775	725325

\* Includes Tractor, Aero, ADV and Off-the-road.

**Chart 9**  
**TOTAL CONSUMPTION OF RUBBER**  
**ACCORDING TO END PRODUCTS - 2002-03**



**CONSUMPTION OF NR ALONE**

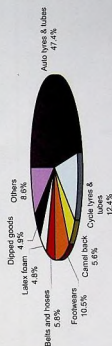






TABLE - 36(Contn.)

Products	2000-01				2001-02				2002-03p			
	NR	SR	RR	Total	NR	SR	RR	Total	NR	SR	RR	Total
1. Auto tyres & tubes*	285275	94066	10210	389551	284136	91150	9956	385242	329823	102834	12435	444892
2. Cycle tyres & tubes	82592	15245	18283	116120	84476	16065	19036	119577	86363	16159	20125	122647
3. Camel back	38104	8815	3924	50843	38446	9105	4014	51565	39084	10848	4119	54051
4. Footwears	70547	31585	7832	109934	71479	34201	7805	113485	73048	35601	7760	116609
5. Belts and hoses	38220	7934	3922	50076	39195	9170	4302	52667	39843	9468	4311	53622
6. Latex foam	31620	--	--	31620	32536	--	--	32536	33603	--	--	33603
7. Cables and wires	1719	1684	824	4227	1741	1687	815	4243	1784	1694	820	4298
8. Battery boxes	1865	2691	9675	14231	1901	2684	9681	14266	1873	2705	10091	14669
9. Dipped goods	32081	--	--	32081	32381	--	--	32381	34234	--	--	34234
10. Others	49452	8680	7590	65722	51919	10468	8266	70653	55970	15341	7659	79970
<b>Total</b>	<b>631475</b>	<b>170670</b>	<b>62260</b>	<b>864405</b>	<b>638210</b>	<b>174530</b>	<b>63875</b>	<b>876615</b>	<b>695425</b>	<b>194850</b>	<b>67320</b>	<b>957595</b>

NR - Natural Rubber, SR - Synthetic Rubber &amp; RR - Reclaimed Rubber.

TABLE - 37

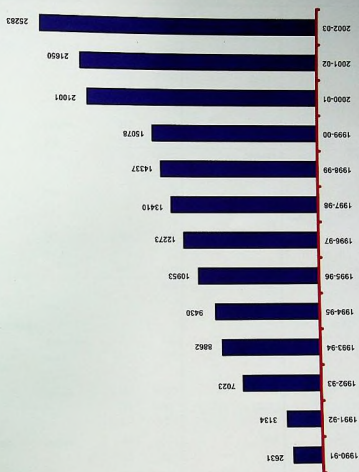
# VALUE OF RUBBER PRODUCTS EXPORTED (Value in million Rs.)

Products	1980-81	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03p
1. Automobile tyres and tubes including tyre retreading materials	131.53	1826.00	7176.80	7944.20	9043.9	8109.69	8638.23	11647.53	11655.44	12420.43
2. Beltings	42.80	241.00	369.42	578.75	539.87	684.99	602.46	968.27	1083.45	1393.96
3. Cycle tyres and tubes	25.88	120.00	807.44	711.85	740.81	1082.85	1227.86	2100.14	2072.13	2673.34
4. Hoses	8.23	77.00	71.18	88.47	90.71	168.10	145.20	228.69	402.66	541.65
5. Hygienic, medical & surgical articles including gloves	20.94	139.00	1288.41	1477.25	1338.78	1578.36	1366.77	1889.21	1489.96	2119.00
6. Rubber footwear	3.66	7.50	84.30	90.90	103.2	--	--	--	--	--
7. Rubber-soled footwear with canvas upper	41.77	112.00	134.20	175.60	312.5	747.80*	611.95*	873.16*	1244.12*	1314.89*
8. Rubber coats & aprons for textile industry	3.94	11.00	52.28	59.83	83.37	92.60	103.48	154.29	158.49	211.47
9. Rubber sheetings	0.63	7.20	147.74	172.86	227.57	354.12	576.77	693.38	587.85	945.73
10. Others	34.22	89.80	821.15	973.29	929.27	1518.39	1804.93	2446.63	2955.92	3662.65
<b>Total</b>	<b>313.60</b>	<b>2630.50</b>	<b>10952.92</b>	<b>12273.00</b>	<b>13410.00</b>	<b>14336.90</b>	<b>15077.65</b>	<b>21001.30</b>	<b>21650.02</b>	<b>25283.12</b>

\* - Including rubber footwear.

Source : CAPEXIL, Kolkata and Council for Leather Exports, Chennai.

**Chart 10**  
**VALUE OF RUBBER PRODUCTS EXPORTED**  
**(Million Rs.)**



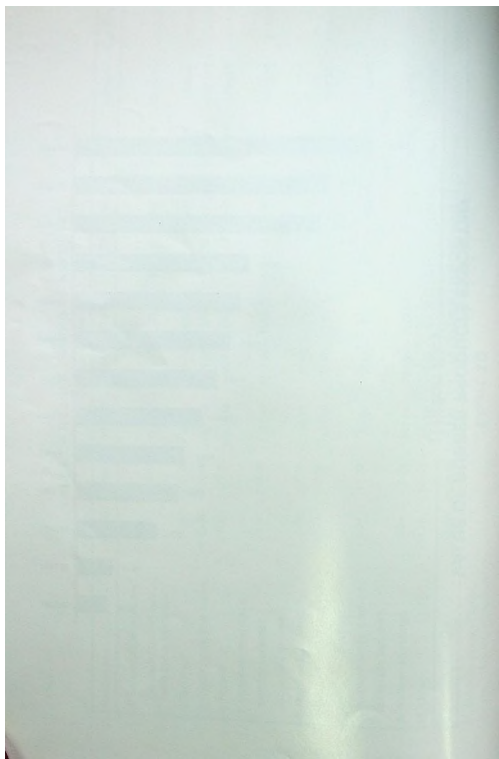


TABLE - 38

## QUANTITY AND VALUE OF RUBBER PRODUCTS IMPORTED

(Value in '000 Rs)

Products	Unit	1980-81		1990-91		2000-01	
		Quantity	Value	Quantity	Value	Quantity	Value
1. TYRES							
Aircraft	Nos.	1167	4149	646	18766	1765	27604
Cycle	"	--	--	--	--	25711	12855
Motor car, Truck & Bus	"	1864	2370	6879	24522	172203	195916
Tractor and other OTR	"	2318	6350	524	28941	4088	226650
Motor cycles & Scooters	"	1	1	--	--	15558	9333
Solid/Cushion tyres							
Interchangeable tyre treads	Tonnes	612	1359	--	--	76	19811
Others	Nos.	16854	5583	3865	57248	12643	110458
Total			19812		129477		602627
2. TUBES							
Aircraft	Nos.	4	16	7	14	2060	3197
Cycle	"	30	3	--	--	6492	277
Motor car, Truck and Bus	"	5	3	8	11	3903	2559
Tractor and other OTR	"	365	107	--	--	94	139
Motor cycle	"	--	--	--	--	945	93
Others	"	995	339	696	364	15418	7302
Total			468		389		13567
3. FLAPS							
	Nos.	5	2	85	11	24*	6196
4. HYGIENIC & PHARMACEUTICALS							
Contraceptives	Million Nos.	0.5	636	74	53463	7*	7643
Others	Nos.	5521	507	14547	4606	107*	29716
5. BELTING							
Conveyor	Tonnes	212	10573	36	7566	326	179532
Others	"	178	19268	235	71283	1033	373318
6. TEXTILE FABRICS COATED WITH RUBBER, LEATHER etc.							
	Tonnes	62	8008	7	1344	--	--
	"	23	206	4	472	123	13650
7. LATEX FOAM SPONGE							
	"	124	10438	368	66115	384	134583
8. HOSES							
	"	26	933	0.3	158	45	14783
9. EBONITE							
	"	57	2212	--	--	374	34769
0. OTHER VULCANISED SHEETS							
			96473		657356		4492777
1. OTHER ARTICLES OF RUBBER							
Grand Total			169536		992240		5903161

Tonnes

TABLE-38(Contn.)

Products	Unit	2001-02		2002-03p	
		Quantity	Value	Quantity	Value
1. TYRES					
Aircraft	Nos.	7411	59334	4046	86505
Bicycles	"	51209	16393	211389	29271
Motor car, Truck & Bus	"	127339	166037	274370	358930
Tractor and other OTR	"	6783	278101	13776	279391
Motor cycles & Scooters	"	14809	10519	35773	23901
Solid/Cushion tyres					
interchangeable tyre treads	Tonnes	80	16453	76	41291
Others	Nos.	137605	123318	49437	169350
Total			670155		988639
2. TUBES					
Aircraft	Nos.	20125	6924	2574	4505
Bicycles	"	25541	1017	147642	3725
Motor car, Truck and Bus	"	5874	4180	4068	1882
Tractor and other OTR	"	98	240	4	34
Motor cycle	"	4945	877	375	57
Others	"	3911	2482	12005	4215
Total			15720		14418
3. FLAPS					
	Tonnes	64	6309	1	494
4. HYGIENIC & PHARMACEUTICALS					
Contraceptives	Tonnes	96	44016	156	70928
Others	"	128	36552	77	26559
5. BELTING					
Conveyor	"	1200	507536	1878	552229
Others	"	921	386263	618	280264
6. LATEX FOAM SPONGE					
	"	111	18999	36	10891
7. HOSES					
	"	411	171300	274	96752
8. EBONITE					
	"	76	17049	170	25474
9. VULCANISED RUBBER					
THREAD & CORD	"	443	70540	1301	157993
10. OTHER ARTICLES OF RUBBER					
			4514544		5478932
Grand Total			6458983		7703573

Source: "Monthly Statistics of Foreign Trade of India (Annual number), Published by DGCI&amp;S, Kolkata.

TABLE - 39

**NUMBER OF LICENSED DEALERS IN DIFFERENT STATES  
AT THE END OF EACH YEAR**

State/Territory	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
Kerala	6439	8304	8866	9453	9320	9281	9290	8417	8620	8737
Tamil Nadu	192	214	212	223	220	223	213	192	195	195
Punjab*	123	217	218	214	189	182	176	153	157	156
Delhi	161	181	171	168	147	148	144	126	120	112
West Bengal	91	115	103	103	90	85	86	75	76	71
Uttar Pradesh	59	89	83	79	81	85	83	72	67	65
Maharashtra	77	90	97	102	103	106	90	93	95	105
Karnataka	51	104	113	124	117	117	118	105	115	118
Haryana	34	46	45	43	44	43	42	39	38	42
Tripura	12	79	107	138	138	125	120	105	113	119
Gujarat	21	28	28	34	34	36	36	36	42	40
Madhya Pradesh	3	14	15	12	8	7	5	5	4	3
Rajasthan	2	12	15	13	15	18	18	19	22	21
Assam	3	15	15	17	21	24	26	23	24	24
Andaman & Nicobar	5	8	8	9	8	8	7	3	3	1
Meghalaya	2	4	5	6	9	9	13	12	14	15
Bihar	3	4	6	6	6	7	6	5	4	3
Andhra Pradesh	0	4	2	3	1	2	3	4	6	6
Orissa	1	2	3	2	2	1	1	1	1	0
Gos.Daman & Diu	0	1	1	2	2	2	1	2	1	2
Jammu & Kashmir	1	1	1	1	1	1	1	0	0	0
Himachal Pradesh	0	0	1	1	1	1	0	0	0	0
Pondicherry	0	1	2	2	2	2	2	3	3	4
Nagaland	0	0	0	0	0	1	1	1	2	3
<b>Grand Total</b>	<b>7280</b>	<b>9533</b>	<b>10117</b>	<b>10756</b>	<b>10559</b>	<b>10514</b>	<b>10482</b>	<b>9492</b>	<b>9722</b>	<b>9842</b>

\* Including Chandigarh.



TABLE - 40

**NUMBER OF LICENSED DEALERS IN DIFFERENT DISTRICTS  
IN KERALA STATE AT THE END OF EACH YEAR**

District	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
Thiruvananthapuram	477	699	786	870	885	869	869	758	768	796
Kollam	771	964	1014	1110	1127	1135	1146	1062	1134	1256
Pathanamthitta	857	1106	1233	1256	1203	1148	1175	1022	1069	1081
Alappuzha	37	115	122	130	124	130	133	132	151	168
Kottayam	2033	2345	2467	2583	2543	2536	2523	2308	2304	2205
Idukki	324	434	457	473	452	458	457	418	409	394
Ernakulam	1005	1188	1222	1295	1259	1252	1241	1124	1105	1093
Thrissur	84	152	147	162	155	162	168	159	163	167
Palakkad	113	235	280	314	328	323	326	315	350	368
Malappuram	226	320	369	415	410	415	419	385	408	431
Kozhikode	164	197	214	227	217	215	220	188	191	190
Wynad	35	52	54	68	72	71	61	59	57	57
Kannur	262	403	391	423	428	454	449	395	423	445
Kasaragod	51	94	110	127	117	113	103	92	88	86
Total	6439	8304	8866	9453	9320	9281	9290	8417	8620	8737

TABLE - 41

### AVERAGE DAILY EMPLOYMENT IN RUBBER PLANTATIONS

Year	Numbers	Year	Numbers
1970	146591	1987	244477
1971	147902	1988	257742
1972	148040	1989	271601
1973	150909	1990	282674
1974	154214	1991	293108
1975	157754	1992	304618
1976	162661	1993	310800
1977	168475	1994	315900
1978	176925	1995	322300
1979	184320	1996	328900
1980	192578	1997	335450
1981	199775	1998	341320
1982	206790	1999	345200
1983	212613	2000	347700
1984	220434	2001	348700
1985	227780	2002	354300
1986	235351	2003p	358000

Source: Ministry of Food and Agriculture (Govt. of India),  
Govt. of Kerala and Rubber Board.

TABLE - 42

## COLLECTION OF EXCISE DUTY AND MISCELLANEOUS RECEIPTS OF THE RUBBER BOARD

Year	Excise Duty on Rubber Collected	Sale of rubber from experiment stations	Sale of planting materials from nurseries	Others*	Total
1990-91	147.34	4.62	3.99	10.03	165.98
1991-92	168.15	5.73	3.65	12.18	189.71
1992-93	180.48	5.82	5.01	13.69	205.00
1993-94	198.18	8.40	3.41	14.01	224.00
1994-95	262.34	9.22	5.28	65.26	342.10
1995-96	435.77	10.74	6.74	87.00	540.25
1996-97	469.97	6.50	7.36	99.10	582.93
1997-98	482.03	5.74	8.04	113.50	609.31
1998-99	500.47	5.29	6.72	114.50	626.98
1999-00	755.63	12.30	6.70	126.63	901.26
2000-01	821.91	7.38	5.93	133.56	968.78
2001-02	811.37	7.81	5.27	66.20	890.65
2002-03p	820.44	13.41	6.57	84.29	924.71

\* Figures from 1994-95 include recovery of the cost of plantation inputs distributed through RPSs.

TABLE - 43

**SCHEME-WISE EXPENDITURE OF THE RUBBER BOARD**  
(Million Rs.)

Scheme	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95
1. Rubber plantation development scheme (newplanting and replanting)	104.22	87.55	126.85	115.20	111.78	115.34	103.80
2. Infrastructure development in non-traditional areas	15.48	20.02	19.66	27.61	25.88	34.58	25.01
3. Extension training and supplies*	11.16	13.90	16.68	23.12	18.14	17.01	71.07
4. Maintenance of nurseries and distribution of planting materials	5.46	5.57	7.40	4.59	5.20	5.94	6.04
5. Processing, marketing and product development	9.23	11.68	10.16	12.61	12.41	16.09	13.16
6. Research	29.66	37.51	41.86	47.35	52.10	64.05	53.16
7. Special component plan and tribal subplan	13.38	11.15	6.85	11.28	10.76	13.47	23.02
8. Labour welfare	1.99	2.30	2.28	4.13	4.08	6.59	9.43
9. Construction of administrative building, residential building etc.	1.85	5.37	8.48	10.27	13.92	10.76	6.78
10. Operational expenses for schemes 1,3,4 & 7	25.81	28.04	29.92	39.13	46.78	50.95	58.79
11. General administration	12.74	14.36	14.81	17.49	19.96	21.82	24.02
<b>Total - Plan</b>	<b>166.55</b>	<b>161.48</b>	<b>210.23</b>	<b>233.41</b>	<b>228.04</b>	<b>253.36</b>	<b>293.84</b>
<b>- Non plan</b>	<b>71.57</b>	<b>83.80</b>	<b>83.23</b>	<b>88.19</b>	<b>102.20</b>	<b>113.06</b>	<b>109.70</b>
<b>Grand Total</b>	<b>238.12</b>	<b>245.28</b>	<b>293.46</b>	<b>321.60</b>	<b>330.24</b>	<b>366.42</b>	<b>403.54</b>

TABLE - 43 (contn.)

Scheme	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03
1. Rubber plantation development scheme (newplanting and replanting)	107.63	116.20	141.37	174.76	197.00	190.99	139.97	130.00
2. Infrastructure development in non-traditional areas	22.14	27.80	30.33	39.04	36.63	5.52	8.86	7.00
3. Extension, training and supplies*	109.44	117.90	113.24	174.87	146.83	159.21	17.71	60.00
4. Maintenance of nurseries and distribution of planting materials	7.20	10.27	11.91	9.15	9.12	9.96	9.54	9.00
5. Processing, marketing and product development	24.59	30.05	81.80	78.17	171.87	177.29	98.44	148.00
6. Research	65.89	82.89	97.05	93.42	105.82	103.34	140.55	125.00
7. Special component plan and tribal subplan	21.48	32.38	32.32	26.78	36.64	42.80	39.37	20.00
8. Labour welfare	10.09	10.21	10.66	11.18	10.81	12.07	12.18	21.00
9. Construction of administrative building, residential building etc.	6.53	6.65	7.03	5.72	2.98	3.74	7.69	12.00
10. Operational expenses for schemes 1,3,4, & 7	72.55	88.77	128.87	119.37	139.07	101.02	206.71	350.00
11. General administration	30.62	31.89	42.71	50.54	50.73	53.63	56.38	63.00
<b>Plan</b>	<b>355.00</b>	<b>420.90</b>	<b>599.26</b>	<b>709.69</b>	<b>799.17</b>	<b>757.78</b>	<b>616.33</b>	<b>840.00</b>
<b>Non plan</b>	<b>133.75</b>	<b>143.35</b>	<b>108.15</b>	<b>122.60</b>	<b>128.39</b>	<b>123.08</b>	<b>145.51</b>	<b>126.00</b>
<b>Grand Total</b>	<b>488.75</b>	<b>564.25</b>	<b>707.41</b>	<b>832.29</b>	<b>927.56</b>	<b>880.86</b>	<b>761.84</b>	<b>966.00</b>

\* From 1993-94 onwards includes gross expenditure on Productivity Enhancement Scheme. Subsidy portion of this Scheme is only 5 to 12 % and the balance is recoverable.

Note : Totals include contribution to Pension Fund, advance to staff bearing interest and expenditure on official language implementation.

TABLE - 44

**PROGRESS IN DISTRIBUTION OF PLANTING MATERIALS**  
(Distributed directly by the Rubber Board)  
(In Numbers)

Year	Tjir 1 Clonal Seeds	Tjir 1 Clonal Seedlings	Indigenous Poly Clonal Seedlings	PBIG, GG1 & GG2 Seedlings	Budded Stumps	Green budded Stumps	Budwood *	Poly bagged Plants
1970	3142000	210500	88900	74800	390900	---	2525	---
1980	---	---	28980	---	871532	---	12014	4987
1985	---	---	---	---	848443	171680	14291	12901
1986	---	---	---	---	1003694	276664	12725	53651
1987	---	---	---	---	833430	259439	31731	---
1988	---	---	---	---	513822	282287	22276	3509
1989	---	---	---	---	962035	7500	10394	3490
1990	---	---	---	---	1114918	107764	28100	7242
1991	---	---	---	---	629485	12000	22283	---
1992	---	---	---	---	792823	---	7265	---
1993	---	---	---	---	734886	165748	5962	---
1994	---	---	---	---	856156	465638	873	---
1995	---	---	---	---	549162	527290	7168	---
1996	---	---	---	---	645553	405121	23050	---
1997	---	---	---	---	900489	402377	15216	---
1998	---	---	---	---	736954	248238	1754	---
1999	---	---	---	---	557807	187895	311	---
2000	---	---	---	---	630566	208283	2391	---
2001	---	---	---	---	435122	104944	34521	---
2002p	---	---	---	---	667524	168208	47262	---
2003p	---	---	---	---	374535	136598	40869	---

\* In Metres

TABLE - 45

## RUBBER MARKETED BY THE CO-OPERATIVE SOCIETIES

Year	No.of Societies	Rubber Marketed (In Tonnes)	Year	No.of Societies	Rubber Marketed (In Tonnes)
1968-69	23	3978	1986-87	116	24651
1969-70	25	4284	1987-88	116	25781
1970-71	37	10651	1988-89	118	31246
1971-72	58	14510	1989-90	118	30413
1972-73	58	18513	1990-91	125	29285
1973-74	60	7045	1991-92	146	48665
1974-75	62	4350	1992-93	146	34260
1975-76	62	5545	1993-94	219	50719
1976-77	64	9866	1994-95	231	55934
1977-78	54	7878	1995-96	262	60000
1978-79	52	6875	1996-97	269	62000
1979-80	50	10200	1997-98	288	62900
1980-81	53	9336	1998-99	295	63480
1981-82	54	11067	1999-00	272	80494
1982-83	58	11077	2000-01	281	101923
1983-84	59	11984	2001-02	285	103611
1984-85	60	12960	2002-03	286	120438
1985-86	62	21036	2003-04p	293	110500

Note: From 1986-87 onwards, include Rubber Producers' Societies.

**Chart 11**  
**MOVEMENT OF PRODUCTION INDICES**  
**( BASE 1981-82 = 100 )**

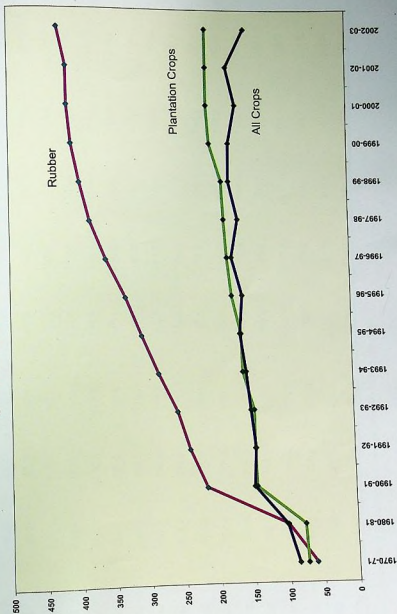






TABLE - 46

# INDEX NUMBERS OF AGRICULTURAL PRODUCTION (Base: Triennium ending 1981-82=100)

Year	Rubber	Tea	Coffee	Plantation Crops	Rice	Wheat	Food Grains	Non-food Grains	All Crops
1970-71	60.8	74.7	79.1	73.2	84.4	67.7	87.9	82.6	85.9
1975-76	90.9	86.9	60.3	82.5	98.0	82.0	98.8	91.9	96.2
1980-81	101.1	101.6	85.1	76.0	107.8	103.2	104.9	97.1	102.1
1985-86	132.3	117.0	87.7	114.0	128.7	133.6	123.4	113.0	119.6
1990-91	217.6	132.3	122.3	144.9	149.4	156.6	143.7	156.3	148.4
1991-92	242.1	125.5	129.5	146.1	150.2	158.2	137.6	158.8	145.5
1992-93	259.8	125.5	116.2	145.6	145.5	162.5	144.3	163.7	151.5
1993-94	287.3	132.6	149.7	162.2	161.5	170.0	150.2	168.4	157.3
1994-95	311.4	134.4	129.6	163.6	164.5	186.8	155.9	180.9	165.2
1995-96	334.6	139.1	160.5	176.5	154.8	176.4	146.1	185.4	160.7
1996-97	362.7	144.5	148.2	182.4	164.4	197.0	160.9	200.9	175.7
1997-98	385.4	144.5	148.2	186.2	166.0	188.5	155.7	181.6	165.3
1998-99	399.4	144.5	148.2	188.6	173.0	202.5	165.2	199.4	177.9
1999-00	410.8	149.0	210.1	205.3	180.3	217.0	169.7	189.0	176.9
2000-01	416.2	151.3	216.8	209.0	170.9	198.0	158.4	178.2	165.7
2001-02	416.8	151.1	216.3	208.9	187.5	206.7	172.0	189.0	178.3
2002-03p	428.7	151.1	216.3	208.9	146.1	184.9	140.4	167.8	150.5

Source: Directorate of Economics & Statistics, Ministry of Agriculture.

TABLE - 47

# INDEX NUMBERS OF PRODUCTIVITY (Base: Triennium ending 1981-82 = 100)

Year	Rubber	Tea	Coffee	Plantation Crops	Rice	Wheat	Food Grains	Non-food Grains	All Crops
1970-71	83.2	80.2	122.0	86.8	90.2	82.4	93.2	91.4	92.6
1975-76	98.5	90.9	73.4	90.5	99.6	89.0	98.0	96.3	96.7
1980-81	100.7	101.1	84.6	97.9	107.7	102.8	105.1	99.2	102.9
1985-86	115.2	111.2	76.2	102.8	125.3	129.0	122.3	108.4	117.6
1990-91	138.1	119.9	110.2	122.2	140.2	143.8	137.8	128.0	133.8
1991-92	145.1	113.6	129.7	123.7	141.1	150.9	136.5	123.9	131.1
1992-93	152.9	113.6	96.5	119.7	140.6	146.7	142.0	130.2	137.0
1993-94	165.0	119.7	107.0	127.4	152.1	150.0	146.5	132.8	140.7
1994-95	174.8	121.0	92.4	127.6	154.0	161.3	150.4	138.9	145.5
1995-96	182.5	122.4	114.4	136.1	144.8	156.5	143.1	135.8	139.9
1996-97	192.9	127.0	101.9	137.5	151.7	168.9	154.5	143.8	149.8
1997-98	198.8	127.0	101.2	139.2	153.1	156.7	148.4	132.3	141.4
1998-99	200.6	125.8	121.1	129.4	154.8	163.3	154.0	141.3	148.4
1999-00	202.3	115.3	129.1	138.4	160.0	175.2	159.8	136.4	149.6
2000-01	202.3	113.3	130.7	137.3	153.2	170.7	152.8	133.5	144.4
2001-02	202.3	112.7	129.5	136.7	167.3	174.1	164.8	138.9	153.4
2002-03p	204.4	112.7	129.5	136.7	145.4	185.1	146.1	127.0	137.5

Source : Directorate of Economics &amp; Statistics, Ministry of Agriculture.

TABLE - 48

# GROSS DOMESTIC PRODUCT AND CONSUMER PRICE INDEX

Year	Gross Domestic Product at factor cost (at 1993-94 prices) (Rs.Crores)	Annual growth rates (percent)	All India Consumer Price Index* (Base 1986-87=100)
1980-81	401128	7.2	67
1981-82	425073	6.0	75
1982-83	438079	3.1	79
1983-84	471742	7.7	88
1984-85	492077	4.3	88
1985-86	513990	4.5	93
1986-87	536257	4.3	97
1987-88	556778	3.8	107
1988-89	615098	10.5	120
1989-90	656331	6.7	127
1990-91	692871	5.6	136
1991-92	701863	1.3	163
1992-93	737792	5.1	183
1993-94	781345	5.9	189
1994-95	838031	7.3	212
1995-96	899563	7.3	237
1996-97	970082	7.8	262
1997-98	1016595	4.8	284
1998-99	1082748	6.5	293
1999-00	1148368	6.1	306
2000-01	1198592	4.4	300
2001-02	1267833	5.8	309
2002-03	1318321	4.0	324
2003-04p	1424507	8.1	332

\* For Agricultural Labourers.

Source: Economic Survey, Govt. of India.

TABLE - 49

# INDEX NUMBERS OF WHOLESALE PRICES OF SELECTED COMMODITIES (Base: 1993-94=100)

Commodities	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03p	2003
All Commodities	112.6	121.6	127.2	132.8	140.7	145.3	155.7	161.3	166.8	172
Food - grains	114.7	122.5	137.6	139.3	152.0	176.4	173.8	172.4	174.3	176
Fruits & Vegetables	108.0	123.5	148.9	142.8	185.4	154.5	160.0	188.9	190.2	191
Condiments & Spices	126.2	153.4	176.6	176.9	220.2	226.4	202.5	188.1	194.0	200
Oil seeds	118.5	128.6	130.6	128.3	148.5	133.4	129.3	137.6	160.2	17
Minerals	104.9	94.7	107.2	99.8	110.9	110.4	113.5	119.3	118.8	12
Electricity	113.6	127.8	133.5	151.8	157.2	168.9	200.0	224.8	238.0	24
Edible Oils	110.9	116.9	115.1	113.5	139.1	122.1	103.3	112.9	138.0	15
Tea & Coffee processing	104.4	114.6	116.7	160.4	164.1	185.5	189.1	177.2	143.7	17
Textiles	118.2	129.4	118.7	115.5	114.4	115.0	119.9	119.3	122.2	13
Leather & Leather Products	109.7	119.2	121.2	128.8	133.2	154.6	149.6	141.0	130.1	14
Natural Rubber	141.6	202.6	190.8	139.4	116.5	120.6	118.2	125.7	152.5	16
Rubber & Plastic Products	106.4	123.0	124.2	124.5	123.7	123.6	125.5	126.0	132.6	17
Tyres & Tubes	104.1	129.6	132.9	131.7	133.1	131.7	130.7	127.2	132.0	18
Plastic Products	106.8	112.2	110.7	113.1	109.3	110.9	112.1	117.9	125.7	19
Other Rubber & Plastic Products	121.0	133.7	132.8	132.8	132.8	132.8	161.0	163.7	177.0	20
Chemicals & Chemical Products	116.6	126.8	131.1	137.1	145.8	155.2	164.4	169.0	173.9	21
Fertilisers & Pesticides	117.7	128.1	128.2	134.2	136.0	140.3	153.8	157.7	163.9	22
Motor Vehicles	107.6	116.7	124.5	129.3	133.4	137.6	146.1	149.2	149.4	23

Source: "Index number of wholesale prices in India", Published by the Office of Economic Advisor, Ministry of Industry, Govt. of India.

# WORLD RUBBER STATISTICS

TABLE - 50

## AREA UNDER RUBBER IN MAIN PRODUCING COUNTRIES

(In Thousand Hectares)

Territory	End of	Holdings	Estates	Total
Indonesia	2003	2742	548	3290
Thailand	2003	1778	190	1968
Malaysia	2003	1176	139	1315
China	1998	NA	NA	618
India	2003	508	66	574
Vietnam	2003	NA	NA	450
Brazil	2003	NA	NA	107
Sri Lanka	2003	83	46	129
Nigeria	1999	90	60	150
Liberia	1999	49	60	109
Myanmar	1995	59	46	105
Cote d'Ivoire	1998	26	70	96
Philippines	1999	---	92	92
Cameroon	2002	7	41	48
D.R. of Congo(a)	1999	10	25	35

Note : Estate areas refer to holdings of 40 ha. and over except for India where it refers to holdings of over 20 ha.

NA : Not available.

(a) : Formerly Zaire.

Source : Rubber Statistical Bulletin of the International Rubber Study Group.

TABLE-51

**PRODUCTION OF NATURAL RUBBER IN MAIN PRODUCING COUNTRIES**  
(In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003p
Thailand	1275	1805	1970	2031	2076	2155	2346	2320	2615	2873
Indonesia	1262	1455	1527	1505	1714	1599	1501	1607	1630	1792
Malaysia	1291	1089	1083	971	886	769	928	882	890	986
India	<b>324</b>	<b>500</b>	<b>540</b>	<b>580</b>	<b>591</b>	<b>620</b>	<b>629</b>	<b>632</b>	<b>641</b>	<b>708</b>
China	264	424	430	444	450	460	445	464	468	480
Vietnam	103	155	220	212	218	230	291	317	373	364
Liberia	19	13	30	67	75	100	105	107	109	110
Brazil	31	44	53	61	70	87	88	89	89	94
Sri Lanka	113	106	113	106	96	97	88	86	91	92
Philippines	61	60	62	66	68	65	67	71	76	84
Comodia	35	38	39	40	39	40	45	47	47	46
Nigeria	152	116	64	65	65	58	55	50	45	48
Others*	190	235	309	322	472	540	142	569	276	305
<b>World</b>	<b>5120</b>	<b>6040</b>	<b>6440</b>	<b>6470</b>	<b>6820</b>	<b>6820</b>	<b>6730</b>	<b>7240</b>	<b>7350</b>	<b>8000</b>

Italics: estimated, \* countries not reported separately.

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.

Chart 12  
SHARE OF INDIA IN WORLD PRODUCTION OF NR-2003

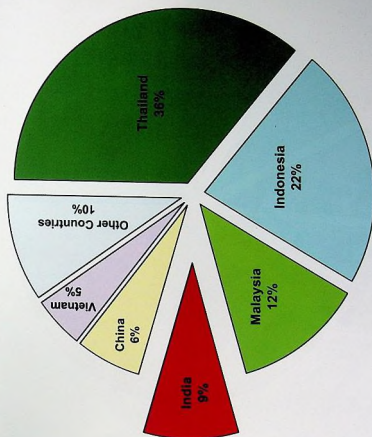






Chart 13  
SHARE OF INDIA IN WORLD CONSUMPTION OF NR-2003

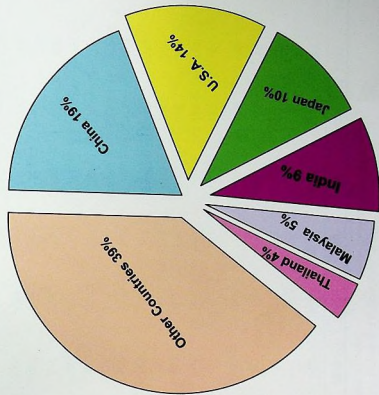




TABLE 52

CONSUMPTION OF NATURAL RUBBER IN MAIN CONSUMING COUNTRIES  
(In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003p
China	600	780	810	910	839	852	1080	1215	1310	1485
U.S.A.	808	1004	1002	1044	1157	1116	1195	974	1111	1079
Japan	677	692	715	713	707	734	752	729	749	784
India	358	516	558	572	580	619	638	631	680	716
Malaysia	184	327	357	327	334	344	364	401	408	421
Rep. of Korea	255	300	300	302	283	333	332	332	326	333
France	179	176	182	192	223	240	270	282	231	300
Thailand	99	153	174	182	186	227	243	253	278	299
Brazil	124	155	161	161	185	184	227	216	233	256
Germany	209	212	193	214	247	226	250	246	247	251
Spain	119	128	130	147	157	153	163	176	181	188
Indonesia	108	133	142	141	97	116	139	142	145	156
Canada	84	121	119	131	148	140	148	131	155	146
Italy	130	102	100	117	146	134	139	137	134	142
Taiwan	105	103	96	101	97	105	92	90	107	115
U.K.	136	118	111	119	139	127	123	98	76	96
Russian Fed.	150	13	16	9	6	15	36	36	19	32
Others*	885	917	944	1078	1029	965	1109	1071	1130	1131
<b>World</b>	<b>5210</b>	<b>5950</b>	<b>6110</b>	<b>6460</b>	<b>6560</b>	<b>6630</b>	<b>7300</b>	<b>7160</b>	<b>7520</b>	<b>7930</b>

Italics: estimated, \*: countries not reported separately.

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.

TABLE - 53

**COUNTRY-WISE IMPORT OF NATURAL RUBBER**  
(In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002p	2003
China	340	297	490	362	411	402	820	943	915	915
U.S.A	820	1026	1014	1044	1177	1116	1192	972	1110	1110
Japan	663	696	724	730	678	755	802	713	772	772
Rep. of Korea	254	289	299	299	282	332	331	330	323	323
France	178	176	182	192	223	240	270	282	231	231
Germany	209	212	193	212	247	226	250	245	243	243
Spain	119	130	130	148	159	161	171	184	182	182
Brazil	81	106	107	100	115	98	139	128	144	144
Canada	84	121	118	133	148	141	150	132	154	154
Italy	132	121	119	132	148	131	136	135	136	136
Taiwan	105	103	96	101	97	105	92	90	106	106
Turkey	47	79	78	87	84	69	86	79	95	95
U.K.	136	120	111	120	139	127	123	98	76	76
Mexico	68	55	69	80	82	82	90	67	67	67
India	60	50	16	27	29	20	11	35	26	26
Argentina	31	29	32	38	42	22	27	23	26	26
Others*	736	612	614	620	656	625	745	747	725	725
<b>World</b>	<b>4063</b>	<b>4222</b>	<b>4392</b>	<b>4425</b>	<b>4717</b>	<b>4652</b>	<b>5435</b>	<b>5203</b>	<b>5331</b>	<b>5331</b>

Italics: estimated, \*, countries not reported separately.

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.

TABLE - 54

## COUNTRY-WISE EXPORT OF NATURAL RUBBER

(In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002p	200
Thailand	1151	1636	1763	1837	1839	1886	2166	2042	2354	25
Indonesia	1077	1324	1434	1404	1641	1495	1380	1497	1502	16
Malaysia*	1186	778	710	587	425	436	196	162	430	51
Vietnam	76	138	195	194	191	230	269	292	351	34
Liberia	19	13	30	67	75	100	105	107	109	104
Sri Lanka	87	68	72	61	41	43	33	32	36	37
Nigeria	121	99	49	53	47	38	36	30	24	26
Cambodia	28	30	31	32	33	34	35	37	34	15
India	0	1	2	1	2	3	14	4	44	62
World	3990	4320	4590	4235	4690	4262	4980	5120	5270	5720

Italics : Estimated

\*: Net exports

Source : "Rubber Statistical Bulletin" of the International Rubber Study Group.

TABLE - 55

## PRODUCTION OF SYNTHETIC RUBBER IN MAIN PRODUCING COUNTRIES

(In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002p	2003p
U.S.A.	2115	2530	2486	2589	2600	2354	2395	2064	2150	2192
Japan	1426	1496	1520	1592	1520	1577	1592	1466	1522	1577
China	316	493	553	600	589	754	836	1052	1133	1272
Russian Federation	2277@	837	775	725	821	737	837	919	919	1070
Germany	525	480	548	555	619	720	849	828	869	888
France	522	618	583	595	606	592	669	672	681	718
Korea Rep	227	384	516	540	547	655	678	663	678	700
Taiwan	175	365	376	457	472	495	465	480	523	529
Brazil	256	286	310	347	310	363	373	342	384	405
U.K.	274	320	280	294	252	283	286	333	337	327
Italy	300	310	303	295	290	279	285	274	250	243
Mexico	133	142	147	154	173	171	187	173	182	180
Netherlands	244	178	198	194	184	185	200	188	176	176
Canada	195	170	220	216	191	195	187	143	150	152
Belgium	125	95	105	100	95	100	104	104	104	104
Poland	103	105	106	100	94	97	102	83	87	90
India	58	67	63	75	66	66	60	69	78	86
Others*	620	602	651	652	651	757	765	677	707	761
World	9890	9480	9740	10080	9880	10380	10870	10530	10930	11470

Italics: estimated, \*: countries not reported separately.

@: refer to the former U.S.S.R.

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.

TABLE - 56

## CONSUMPTION OF SYNTHETIC RUBBER IN MAIN CONSUMING COUNTRIES

(In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002p	2003f
China	340	760	870	995	1000	1285	1455	1575	1750	2155
U.S.A	1821	2172	2187	2323	2354	2218	2190	1840	1895	1928
Japan	1133	1085	1125	1163	1116	1133	1138	1085	1096	1111
Russian Federation	2078@	424	438	450	358	436	539	575	551	619
Germany	511	426	478	501	582	565	632	613	612	615
France	351	430	436	416	451	434	482	465	469	493
Brazil	284	280	290	310	300	309	320	334	344	350
Korea Rep	279	370	440	406	277	394	382	373	385	345
Spain	166	195	200	222	229	242	269	262	292	294
Taiwan	195	284	274	292	272	263	262	232	284	293
Italy	310	293	291	290	275	287	291	275	261	247
Canada	185	198	242	259	238	239	233	228	228	225
India	97	133	142	158	155	164	171	172	192	203
U.K.	223	226	230	235	177	189	188	167	210	204
Mexico	114	132	160	162	165	169	160	142	132	140
Others*	1573	1862	1767	1818	1921	1943	2088	1962	2099	2160
World	9660	9270	9570	10000	9870	10270	10800	10300	10800	11380

Italics: estimated. \*: countries not reported separately.

@: refer to the former U.S.S.R.

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.



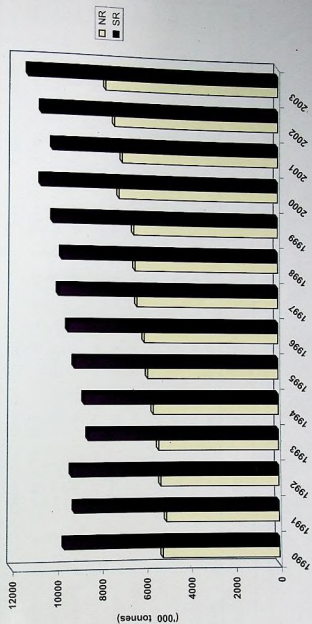
TABLE -57

**PRODUCTION, CONSUMPTION AND STOCK OF NATURAL AND SYNTHETIC RUBBER**  
(In Thousand Tonnes)

Year	NATURAL RUBBER			SYNTHETIC RUBBER		
	Production	Consumption	Excess(+) or deficiency(-) compared with consumption	Production	Consumption	Excess(+) or deficiency(-) compared with consumption
1990	5120	5210	-90	9890	9660	+230
1991	5180	5060	+100	9270	9220	+50
1992	5450	5320	+130	9300	9360	-60
1993	5310	5430	-120	8600	8630	-30
1994	5720	5650	+70	8870	8820	+50
1995	6070	5950	+120	9480	9270	+210
1996	6440	6110	+330	9740	9570	+170
1997	6470	6460	+10	10080	10000	+80
1998	6820	6580	+260	9880	9870	+10
1999	6820	6630	+190	10380	10270	+110
2000	6730	7300	-570	10870	10800	+70
2001	7240	7160	+80	10530	10300	+230
2002p	7350	7520	-170	10930	10800	+130
2003p	8000	7930	+70	11470	11380	+90

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.

Chart 14  
WORLD CONSUMPTION OF NR AND SR



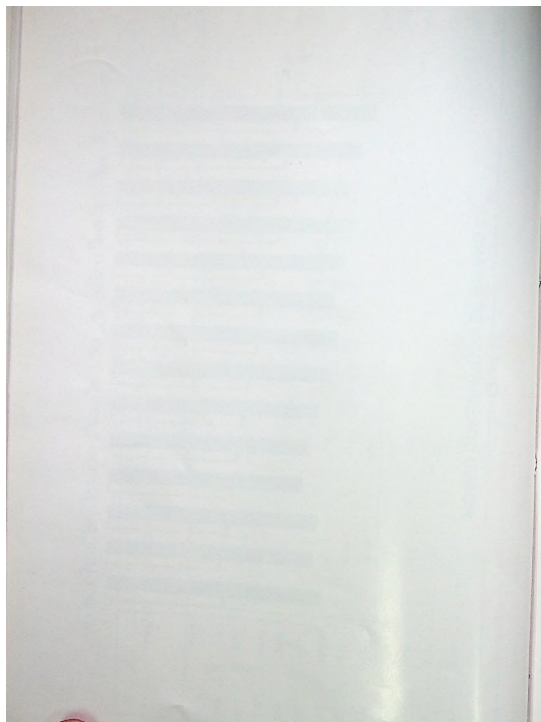


TABLE-58

**ESTIMATED PERCAPITA CONSUMPTION OF NATURAL AND SYNTHETIC RUBBER**  
(Kilograms)

Country	1980	1985	1990	1995	2000	2001	2002	2003p
U.S.A.	11.26	11.43	10.52	12.07	11.84	9.88	10.46	10.22
Canada	11.65	10.85	10.12	10.77	12.46	11.52	12.24	11.61
Germany	9.77	10.05	9.07	7.69	10.84	10.61	10.42	10.56
France	9.84	8.48	8.34	10.32	13.42	12.61	11.76	13.22
U.K.	6.77	5.77	6.24	6.06	5.45	4.59	4.75	5.08
Japan	11.23	12.31	14.65	14.19	14.89	14.27	14.48	14.80
Australia	6.87	5.19	5.39	6.37	4.91	3.75	3.50	3.68
Italy	7.44	7.05	7.63	6.93	7.39	7.11	6.80	6.82
Brazil	2.68	2.52	2.76	2.98	3.34	3.13	3.32	3.40
China	0.50	0.62	0.83	1.25	1.99	2.17	2.39	2.79
India	0.32	0.40	0.55	0.70	0.61	0.79	0.83	0.86
World	2.82	2.77	2.82	2.61	2.99	2.84	2.95	3.06

Source: Upto 1995, 'Key Rubber Indicators' published by IRSG, London. From 1996 onwards, compiled by the Rubber Board.

TABLE - 59

# **WORLD PRICE OF NATURAL RUBBER** (Average price for RSS 3 per 100 Kg.)

Year	<u>LONDON</u> (C.I.F)		<u>KUALA LUMPUR</u> (F.O.B)		<u>KOTTAYAM</u>
	Pound Sterling	Equivalent Rate in Rs.	Malaysian Ringgit	Equivalent Rate in Rs.	(INDIA) Rs.
1980	63.76	1170	298.7	1083	1154
1981	53.38	938	230.8	872	1423
1982	49.37	819	181.3	739	1473
1983	73.00	1120	238.8	1042	1672
1984	73.26	1110	214.7	1040	1689
1985	61.15	980	179.8	890	1694
1986	57.09	1057	202.1	988	1670
1987	62.23	1321	236.4	1217	1766
1988	69.25	1717	301.2	1600	1811
1989	61.06	1623	247.0	1482	2040
1990	51.24	1604	220.6	1425	2147
1991	50.00	2000	216.9	1796	2128
1992	52.72	2655	212.6	2457	2463
1993	58.92	2786	207.5	2538	2546
1994	78.49	3779	288.6	3455	3107
1995	104.62	5375	390.4	5030	5059
1996	92.96	5143	342.9	4764	5122
1997	63.65	3776	273.8	3614	3988
1998	45.76	3127	273.1	2884	3013
1999	42.71	2989	231.5	2644	2997
2000	48.60	3296	252.5	3007	3125
2001	44.90	3041	218.5	2732	3109
2002	74.56	5421	286.8	3696	3621
2003	102.70	7808	4450*	4985	4814

Note: In the case of India, price refers to RSS 4 grade rubber at Kottayam market.

\*: Bangkok price(Baht)

Source : Rubber Statistical Bulletin of the International Rubber Study Group.

Chart 15  
PRICE OF NATURAL RUBBER  
IN INDIAN & INTERNATIONAL MARKETS

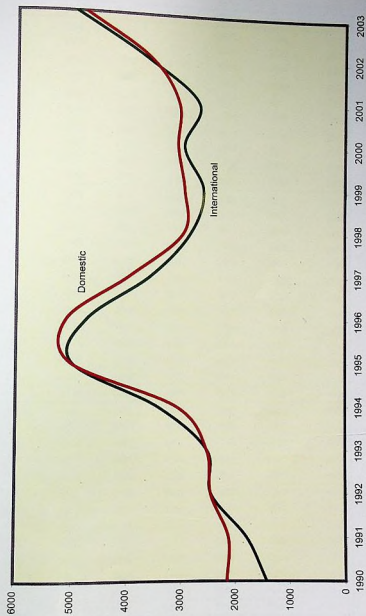




TABLE - 60

**INTERNATIONAL PRICE OF DIFFERENT GRADES OF NATURAL RUBBER**  
(F.O.B.price)

Month		RSS 1	RSS 2	RSS 3	RSS 4	RSS 5	SMR/STR 20
		(Rs. per 100 Kg.)					
1992-93		2688	2641	2608	2553	2484	2519
1993-94		2583	2537	2510	2405	2339	2533
1994-95		4217	4187	4171	4081	4021	4220
1995-96		5107	5029	5016	4916	4849	4895
1996-97		4609	4516	4509	4381	4311	4325
1997-98		3308	3227	3221	3094	3033	3250
1998-99		2961	2893	2885	2770	2716	2626
1999-2000		2790	2721	2704	2583	2525	2761
2000-01		3089	2976	2958	2831	2770	2798
2001-02		2880	2812	2793	2660	2597	2623
April	2002	3517	3441	3422	3286	3221	3241
May	"	3509	3446	3426	3290	3225	3248
June	"	4152	4067	4047	3911	3846	3982
July	"	4142	4078	4058	3922	3858	3959
August	"	4153	4110	4090	3955	3891	4030
September	"	4395	4348	4329	4194	4129	4373
October	"	4046	4001	3982	3847	3783	4141
November	"	4000	3955	3936	3801	3737	4144
December	"	4007	3962	3943	3809	3745	4142
January	2003	4219	4330*	4330*	4226*	4109*	4340
February	"	4568	4716*	4716*	4613*	4497*	4527
March	"	5008	5046*	5046*	4944*	4828*	4538
Average		4143	3934	3915	3779	3715	4055
April	2003	4882	4816	4755	4722	4673	4307
May	"	4757	4690	4628	4595	4545	4110
June	"	4915	4848	4786	4752	4702	4179
July	"	4717	4651	4590	4556	4507	4063
August	"	4890	4823	4763	4730	4680	4354
September	"	5162	5095	5032	4998	4948	4807
October	"	5874	5800	5737	5703	5651	5735
November	"	6085	6017	5954	5920	5869	5625
December	"	5793	5724	5661	5627	5575	5631
January	2004	5806	5736	5672	5637	5585	5538
February	"	5878	5809	5745	5710	5658	5606
March	"	6139	6071	6008	5974	5923	5863
Average		5408	5340	5278	5244	5193	4985

\*: Singapore price.

Price upto March'03 is of Kuala Lumpur market and from April '03 Bangkok market.



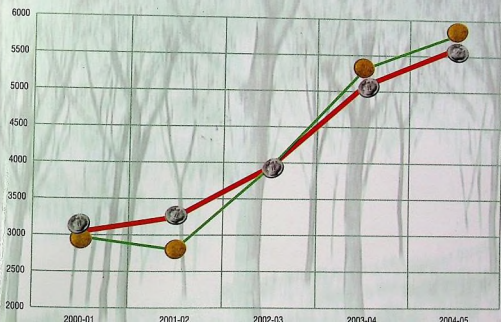
STATE OF NEW YORK  
IN SENATE  
January 10, 1906.

NAME	RESIDENCE	EDUCATION	AGE	DATE	REMARKS
1. J. B. ALLEN	Albany	Yale	35	1870	
2. J. C. ANDERSON	Albany	Yale	38	1867	
3. J. D. BROWN	Albany	Yale	40	1865	
4. J. E. CLARK	Albany	Yale	42	1863	
5. J. F. DAVIS	Albany	Yale	44	1861	
6. J. G. EVANS	Albany	Yale	46	1859	
7. J. H. FOSTER	Albany	Yale	48	1857	
8. J. I. GIBBS	Albany	Yale	50	1855	
9. J. K. HARRIS	Albany	Yale	52	1853	
10. J. L. JONES	Albany	Yale	54	1851	
11. J. M. KELLY	Albany	Yale	56	1849	
12. J. N. LEWIS	Albany	Yale	58	1847	
13. J. O. MASON	Albany	Yale	60	1845	
14. J. P. NICHOLS	Albany	Yale	62	1843	
15. J. Q. OLIVER	Albany	Yale	64	1841	
16. J. R. PARKER	Albany	Yale	66	1839	
17. J. S. REED	Albany	Yale	68	1837	
18. J. T. SMITH	Albany	Yale	70	1835	
19. J. U. TAYLOR	Albany	Yale	72	1833	
20. J. V. WHITE	Albany	Yale	74	1831	
21. J. W. WILSON	Albany	Yale	76	1829	
22. J. X. YOUNG	Albany	Yale	78	1827	
23. J. Z. ZIMMERMAN	Albany	Yale	80	1825	
24. J. A. ALLEN	Albany	Yale	82	1823	
25. J. B. BROWN	Albany	Yale	84	1821	
26. J. C. CLARK	Albany	Yale	86	1819	
27. J. D. DAVIS	Albany	Yale	88	1817	
28. J. E. EVANS	Albany	Yale	90	1815	
29. J. F. FOSTER	Albany	Yale	92	1813	
30. J. G. GIBBS	Albany	Yale	94	1811	
31. J. H. HARRIS	Albany	Yale	96	1809	
32. J. I. JONES	Albany	Yale	98	1807	
33. J. K. KELLY	Albany	Yale	100	1805	
34. J. L. LEWIS	Albany	Yale	102	1803	
35. J. M. MASON	Albany	Yale	104	1801	
36. J. N. NICHOLS	Albany	Yale	106	1799	
37. J. O. OLIVER	Albany	Yale	108	1797	
38. J. P. PARKER	Albany	Yale	110	1795	
39. J. Q. REED	Albany	Yale	112	1793	
40. J. R. SMITH	Albany	Yale	114	1791	
41. J. S. TAYLOR	Albany	Yale	116	1789	
42. J. T. WHITE	Albany	Yale	118	1787	
43. J. U. WILSON	Albany	Yale	120	1785	
44. J. V. YOUNG	Albany	Yale	122	1783	
45. J. W. ZIMMERMAN	Albany	Yale	124	1781	
46. J. X. ALLEN	Albany	Yale	126	1779	
47. J. Y. BROWN	Albany	Yale	128	1777	
48. J. Z. CLARK	Albany	Yale	130	1775	
49. J. A. DAVIS	Albany	Yale	132	1773	
50. J. B. EVANS	Albany	Yale	134	1771	
51. J. C. FOSTER	Albany	Yale	136	1769	
52. J. D. GIBBS	Albany	Yale	138	1767	
53. J. E. HARRIS	Albany	Yale	140	1765	
54. J. F. JONES	Albany	Yale	142	1763	
55. J. G. KELLY	Albany	Yale	144	1761	
56. J. H. LEWIS	Albany	Yale	146	1759	
57. J. I. MASON	Albany	Yale	148	1757	
58. J. K. NICHOLS	Albany	Yale	150	1755	
59. J. L. OLIVER	Albany	Yale	152	1753	
60. J. M. PARKER	Albany	Yale	154	1751	
61. J. N. REED	Albany	Yale	156	1749	
62. J. O. SMITH	Albany	Yale	158	1747	
63. J. P. TAYLOR	Albany	Yale	160	1745	
64. J. Q. WHITE	Albany	Yale	162	1743	
65. J. R. WILSON	Albany	Yale	164	1741	
66. J. S. YOUNG	Albany	Yale	166	1739	
67. J. T. ZIMMERMAN	Albany	Yale	168	1737	
68. J. U. ALLEN	Albany	Yale	170	1735	
69. J. V. BROWN	Albany	Yale	172	1733	
70. J. W. CLARK	Albany	Yale	174	1731	
71. J. X. DAVIS	Albany	Yale	176	1729	
72. J. Y. EVANS	Albany	Yale	178	1727	
73. J. Z. FOSTER	Albany	Yale	180	1725	
74. J. A. GIBBS	Albany	Yale	182	1723	
75. J. B. HARRIS	Albany	Yale	184	1721	
76. J. C. JONES	Albany	Yale	186	1719	
77. J. D. KELLY	Albany	Yale	188	1717	
78. J. E. LEWIS	Albany	Yale	190	1715	
79. J. F. MASON	Albany	Yale	192	1713	
80. J. G. NICHOLS	Albany	Yale	194	1711	
81. J. H. OLIVER	Albany	Yale	196	1709	
82. J. I. PARKER	Albany	Yale	198	1707	
83. J. K. REED	Albany	Yale	200	1705	
84. J. L. SMITH	Albany	Yale	202	1703	
85. J. M. TAYLOR	Albany	Yale	204	1701	
86. J. N. WHITE	Albany	Yale	206	1699	
87. J. O. WILSON	Albany	Yale	208	1697	
88. J. P. YOUNG	Albany	Yale	210	1695	
89. J. Q. ZIMMERMAN	Albany	Yale	212	1693	
90. J. R. ALLEN	Albany	Yale	214	1691	
91. J. S. BROWN	Albany	Yale	216	1689	
92. J. T. CLARK	Albany	Yale	218	1687	
93. J. U. DAVIS	Albany	Yale	220	1685	
94. J. V. EVANS	Albany	Yale	222	1683	
95. J. W. FOSTER	Albany	Yale	224	1681	
96. J. X. GIBBS	Albany	Yale	226	1679	
97. J. Y. HARRIS	Albany	Yale	228	1677	
98. J. Z. JONES	Albany	Yale	230	1675	
99. J. A. KELLY	Albany	Yale	232	1673	
100. J. B. LEWIS	Albany	Yale	234	1671	



# Indian Rubber Statistics

Volume 28  
2005







# Indian Rubber Statistics

VOLUME 28 2005

Compiled by:  
**The Statistics & Planning Department**

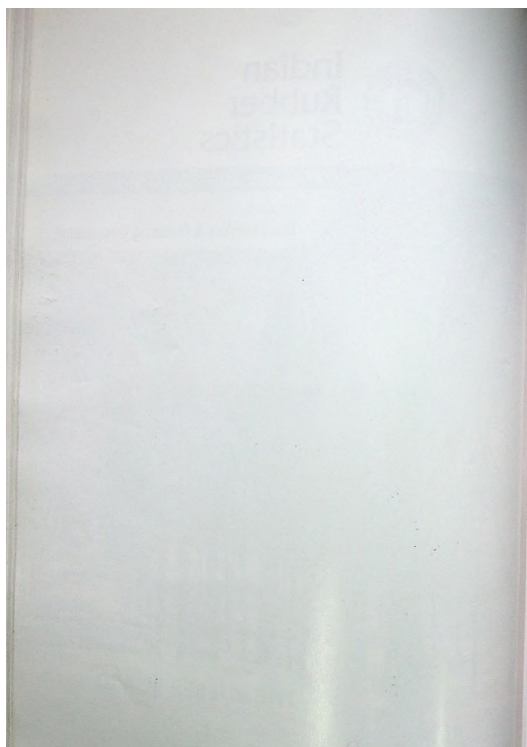
## **THE RUBBER BOARD**

(Ministry of Commerce & Industry, Govt. of India)

Kottayam - 686 002, India

Tel : 0481-2301231

Fax: 0481-2571380



## ABOUT THE RUBBER BOARD

The Rubber Board is a statutory body constituted under the Rubber Act, 1947.

The functions of the Board as defined under the Act are: (1) To promote by such measures as it thinks fit the development of the rubber industry; (2) without prejudice to the generality of the foregoing provision the measures referred to therein may provide for: - (a) undertaking, assisting or encouraging scientific, technological and economic research; (b) training students in improved methods of planting, cultivation, manuring and spraying; (c) the supply of technical advice to rubber growers; (d) improving the marketing of rubber; (e) the collection of statistics from owners of estates, dealers and manufacturers; (f) securing better working conditions and the provision and improvement of amenities and incentives to workers and (g) carrying out any other duties which may be vested with the Board under rules made under this Act.

It shall also be the duty of the Board - (a) to advise the Central Government on all matters relating to the development of the rubber industry, including the import and export of rubber; (b) to advise the Central Government with regard to participation in any international conference or scheme relating to rubber; (c) to submit to the Central Government and such other authorities as may be prescribed half yearly reports on its activities and the working of this Act and (d) to prepare and furnish such other reports relating to the rubber industry as may be required by the Central Government from time to time.

## ABOUT THE RUBBER BOARD

The Rubber Board is a statutory body constituted under the Rubber

Act, 1946.

The functions of the Board are defined under the Act as follows:—  
To advise the Government on all matters relating to the development of the rubber industry in India; to advise the Government on the production of rubber in India; to advise the Government on the export of rubber from India; to advise the Government on the import of rubber into India; to advise the Government on the processing of rubber in India; to advise the Government on the marketing of rubber in India; to advise the Government on the research and development of rubber in India; to advise the Government on the education and training of rubber workers in India; to advise the Government on the welfare of rubber workers in India; to advise the Government on the general administration of the Rubber Board.

It is hereby notified that

It shall also be the duty of the Board— (a) to advise the Government on all matters relating to the development of the rubber industry in India; (b) to advise the Government on the production of rubber in India; (c) to advise the Government on the export of rubber from India; (d) to advise the Government on the import of rubber into India; (e) to advise the Government on the processing of rubber in India; (f) to advise the Government on the marketing of rubber in India; (g) to advise the Government on the research and development of rubber in India; (h) to advise the Government on the education and training of rubber workers in India; (i) to advise the Government on the welfare of rubber workers in India; (j) to advise the Government on the general administration of the Rubber Board.

## FROM THE CHAIRMAN

Tabulated numerical facts are the basis for summarizing and interpreting the observations of a system and the same are essential for the forecasting of future events. The relevance of collection and interpretation of data regarding production, marketing and consumption of natural rubber to the grower and the user needs no over emphasis. The Rubber Act of 1947 lays down collection of rubber statistics as one of the basic functions of the Rubber Board. The **Indian Rubber Statistics** is the result of this effort. This annual publication is the 28<sup>th</sup> in the series, compiled by the Statistics & Planning Department of the Rubber Board. The Board also publishes a monthly, the Rubber Statistical News, that provides *inter alia* the latest statistics on production, consumption, import, export, price and stock of natural rubber.

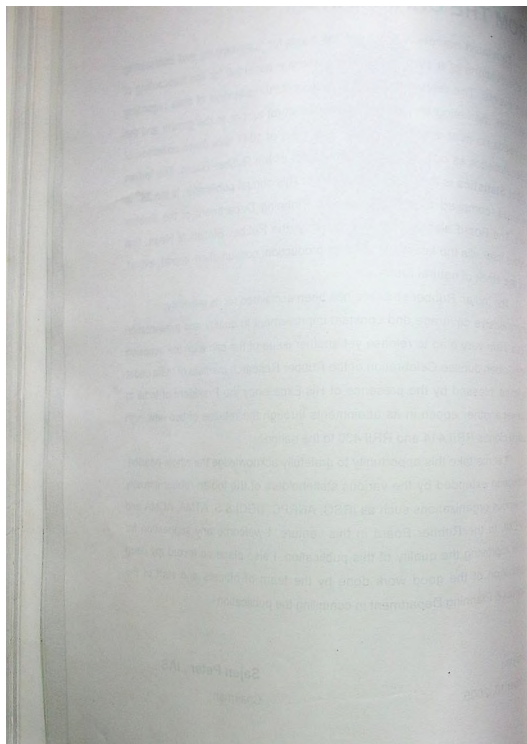
The Indian Rubber statistics has been acclaimed for its reliability, comprehensive coverage and constant improvement in quality and presentation of data. I am very glad to release yet another issue of the same on the occasion of the Golden Jubilee Celebration of the Rubber Research Institute of India under the Board, blessed by the presence of His Excellency the President of India to mark yet another epoch in its attainments through the release of two new high yielding clones RR11 414 and RR11 430 to the nation.

Let me take this opportunity to gratefully acknowledge the whole-hearted cooperation extended by the various stakeholders of the Indian rubber industry and various organizations such as IRSG, ANRPC, DGCI & S, ATMA, ACMA and CAPEXIL to the Rubber Board in this venture. I welcome any suggestion for further improving the quality of this publication. I also place on record my deep appreciation of the good work done by the team of officers and staff of the Statistics & Planning Department in compiling the publication.

Kottayam  
October 10, 2005

Sajen Peter , IAS  
Chairman





## IN RETROSPECT

### Introduction

The rubber plantation industry in India is dominated by small rubber growers and the average size of the small holdings is around 0.50 ha. Nearly 10 lakh growers are engaged in the rubber cultivation in India. The small holders accounts for 88 per cent of the total area and 91 percent of the total production of rubber.

### Area, production and productivity of Natural Rubber

The area under rubber increased from 573,980 hectares in 2003-04 to 578,000 hectares (provisional) in 2004-05 with a growth rate of 0.7% only. The rate of increase in area has declined as a result of non-availability of land for expansion of rubber cultivation in the major rubber growing regions. The tempo of planting has always been sensitive to price fluctuations.

Owing to the recovery in the prices since the beginning of 2002-03, the production sector resurged during 2003-04 with a growth of 9.6% and further to 5.3% in 2004-05. During the year 2004-05, the production of natural rubber(NR) was 749,665 tonnes as compared to 711,650 tonnes in 2003-04. The main reason is that the robust growth of 9.6% in 2003-04 was over a low base, while the growth attained during 2004-05 was over a higher base. Despite the adverse effects of drought like situation that had prevailed during the beginning of the year in Kerala, which accounts for 92% of the production, the production growth achieved during the year diminished to 5.3% while the other factor contributing production like expansion in tapped area, better adoption of agro management and crop harvesting factors remained stagnant during the year. However, because of the positive influence of the favourable factors like price during 2004-05, the national average productivity has increased to 1705 kg from 1663 kg during 2003-04. India occupies the first position in productivity among major producers of NR in the world.

## Consumption

Consumption has been growing in the faster rate than the production during the last two decades. While all the major producers of NR in the world, export a bulk of their rubber, India consumes almost its entire production. As the performance of the rubber manufacturing sector improved significantly during 2004-05, the consumption of NR increased by 5.0% to reach 755,405 tonnes from 719,600 tonnes during the previous year. The growth in consumption for the year 2003-04 was only 3.5%. The increased growth in the auto-tyre manufacturing sector from 7.1% in 2003-04 to 7.4% in 2004-05 and the impressive growth of 2.3% of the non-tyre sector this year from the negative growth of 0.3% of the previous year attributed to the overall growth of 5.0%.

## Production and Consumption of Synthetic Rubber

Synthetic Rubber (SR) production in the country increased to 94,209 tonnes during 2004-05 from 88,366 tonnes during the previous year, registered a growth of 6.6% and the increase was mainly in the Polybutadiene rubber. The consumption of SR in the rubber goods manufacturing industry was 224,650 tonnes during 2004-05 with an increase of 6.9% over the consumption of 210,190 tonnes during 2003-04. The relative use of NR and SR by the industry during 2003-04 and 2004-05 remains unchanged in the ratio 77:23.

Details of consumption of NR and SR during 2004-05 and 2003-04 are summarised in the following table.

**Consumption of NR and SR  
(tonnes)**

	2003-04	2004-05	Growth (%)
<b>Natural Rubber</b>			
Auto tyres & tubes	378,185	406,226	7.4
General rubber goods sector	341,415	349,179	2.3
<b>Total</b>	<b>719,600</b>	<b>755,405</b>	<b>5.0</b>
<b>Synthetic Rubber</b>			
Auto tyres & tubes	119,367	131,267	10.0
Other goods	90,823	93,383	2.8
<b>Total SR</b>	<b>210,190</b>	<b>224,650</b>	<b>6.9</b>
<b>NR &amp; SR</b>			
Auto tyres & tubes	497,552	537,493	8.0
Other goods	432,238	442,562	2.4
<b>Total NR &amp; SR</b>	<b>929,790</b>	<b>980,055</b>	<b>5.4</b>

#### **Import and Export of NR**

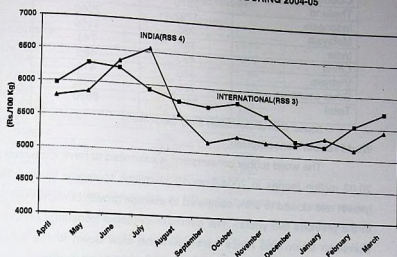
Due to the reinstatement of Advance Licence Scheme since June 2003, and with the issue of the Notification dated 6/8/2004, permitting import of natural rubber through all Ports of Customs both DTA and EOU units, there was a significant increase in the import of natural rubber. According to the figures collected from the Directorate General of Commercial Intelligence and Statistics, Kolkata, the total import during the year 2004-05 was 68,718 tonnes as against 44,199 tonnes imported during the year 2003-04. The increase in the domestic price of NR during June 2004 and July 2004 also appears to be another factor in the volume of import during the year. During the year 2004-05, 86% of the quantity of import was through Advance Licence and 74% of the import was solid block rubber. The basic customs duty on NR reduced from 25% to 20% from 9<sup>th</sup> January 2004 is being continued.

During the year 2004-05 the country had exported 46,169 tonnes of NR as against 75,905 tonnes exported during the year 2003-04. The decline in the export was mainly due to the reduction of incentives as half of the existing rates given to the exporters during 2003-04 limiting to a quantity of 35,000 tonnes, according to the Government Order dated 17<sup>th</sup> November 2004. During the 10<sup>th</sup> Plan period, Rs.36.50 crores were provided for giving financial incentives to the exporters. The scheme envisaged export of 102,000 tonnes of natural rubber during the 10<sup>th</sup> Plan period, against which 177,385 tonnes were exported during the first three years of the period ending 2004-05.

#### **Prices of NR**

The drought situation that prevailed during the first quarter of the year resulted in a drop in the anticipated production and hence the price improved from April '04 to June '04. There has been an abnormal increase in domestic market since second half of June '04 and the price of RSS-4 touched a peak price of Rs.6750 per quintal on 6<sup>th</sup> July '04. Thereafter the domestic market started declining. The comparable international price for RSS-3 grade also began to decline from the second half of July '04 with several ups and downs touched Rs.5661 per quintal in second week of September '04 and thereafter the prices improved to Rs.5833 in October '04. The domestic price of RSS-4 grade which declined to Rs.4950 per quintal during the second week of September '04 pushed up to Rs.5425 per quintal at the end of October '04. Thereafter the domestic price started declining and this trend continued until the price for RSS4 grade touched Rs.5000 per quintal in first week of December 2004. The international price was ruling above the domestic price except for June, July'04 and January '05. Both domestic and international prices were improved in March '05. During the year 2004-05, the average domestic price for RSS-4 grade was Rs.5571 per quintal and the corresponding international price for RSS-3 grade was Rs.5751 per quintal.

MONTHLY AVERAGE PRICE OF NR DURING 2004-05



#### Review of Global Rubber Situation

##### World rubber production

The world NR and SR output increased to 20.57 million tonnes in the year 2004 from 19.44 million tonnes in 2003 representing an increase of 5.8%. The growth in world NR output was achieved as a result of a sharp rise in Malaysian and Indonesian production. In 2004 the world NR production increased from 7.99 million tonnes to 8.62 million tonnes with an increase of 7.9% over the previous year. Steady growth in production of SR in Asia/Pacific region and the recovery in North America and European Union have contributed to the improvement in the production of SR in 2004. SR production in 2004 increased to 11.95 million tonnes from 11.45 million tonnes during 2003 at a growth rate of 4.4%.

The production of natural rubber in the main producing countries during the years 2003 & 2004 are furnished below:

**Production of Natural Rubber**  
(’000 tonnes)

Country	2003	2004
Thailand	2876	2959
Indonesia	1792	2066
Malaysia	986	1169
India	707	743
China	480	486
Vietnam	380	415
Other countries	769	782
<b>Total</b>	<b>7990</b>	<b>8620</b>

*Source: International Rubber Study Group (IRSG).*

#### **World rubber consumption.**

The world rubber consumption is estimated to have increased to 20.03 million tonnes in 2004 from 19.33 million tonnes in 2003. The growth rate slowed to 3.6% compared to average growth of more than 5% in the previous two years. The decrease in rubber consumption in the European Union and Africa contributed the slow down in the rubber consumption during 2004. In the year 2004 natural and synthetic rubber consumption increased to 8.28 million tonnes and 11.75 million tonnes respectively. There was an improvement in NR consumption during 2004, the growth in consumption of NR was higher than SR. The NR and SR consumption ratio during the year was 41:59. China increased its share of the world rubber consumption to 20.3% in 2004 from 18.8% in 2003. In addition to China, India, Brazil, Taiwan, Indonesia, Turkey, Poland, Sweden, Portugal and Ukrain also showed a rise in their respective shares of world rubber consumption.

The consumption of natural rubber in main consuming countries during the years 2003 & 2004 are furnished below:



### Consumption of Natural Rubber (<sup>'000 tonnes</sup>)

Country	2003	2004
China	1485	1630
USA	1079	1144
Japan	784	815
India	717	745
Malaysia	421	403
Rep. of Korea	333	352
Thailand	299	302
Other countries	2832	2889
<b>Total</b>	<b>7950</b>	<b>8280</b>

Source: The International Rubber Study Group (IRSG)

According to the sharp rise in NR output relative to consumption resulted a gap of 3,40,000 tonnes in the year 2004. IRSG forecasts the world NR output to rise 3.2% in 2005 and 3.3% in 2006. The world NR consumption is to increase by 6.6% in 2005 and 3.8% in 2006.

**G Mohanachandran**

Kottayam

Jt. Director

October 10, 2005

Statistics & Planning Dept.



## CONNOTATIONS

Holding	Unless the contrary is stated, the word means a rubber area contiguous or non-contiguous aggregating 20 ha or less under a single ownership.
Estate	Land contiguous or non-contiguous aggregating more than 20 ha planted with rubber under a single ownership is treated as "Estate". However, estates/holdings situated in different taluks even if they are under a single ownership are considered separately. In this context, the word owner includes any agent of an owner and a mortgage in possession and a lessee of the area.
Newplanted area	Land planted with rubber for the first time.
Replanted area	Land planted with rubber by removing the rubber trees planted earlier.
High Yielding area	Area planted with clonal seedlings and clones (bud grafts) approved by the Rubber Board. It may be stated that till 1970 Tjir-1 clonal planting materials was also included under high yielding varieties. From 1971 onwards this variety is not recommended for planting. So the area under high yielding variety in this publication includes area planted with Tjir-1 variety upto 1970.
Tappable area	Area, which is estimated to be tappable.
Yield per hectare	Average yield per ha of tappable area.
Manufacturer	A manufacturer of rubber goods who has taken out a licence from the Board for acquiring natural rubber.
Dealer	One who has taken out a licence from the Board for dealing in natural rubber, holding natural rubber stock. Under the Rubber Act all dealers and all consumers (manufacturers of rubber goods) of natural rubber should take out licence from the Rubber Board.
Natural Rubber	Includes the Dry Rubber Content (drc) of all grades and qualities of natural rubber. Quantity under latex also refers to weight of dry rubber content.
Synthetic Rubber	Includes oil content of oil extended rubber and total solid contents of lattices.
Reclaimed Rubber	Comprises of both natural and synthetic reclaimed rubber.
P	Provisional

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# WORLD COMMISSION ON DEVELOPMENT

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TABLE - I  
AREA NEWPLANTED AND REPLANTED WITH RUBBER  
(Hectares)

Year	Newplanted	Replanted	Total	Year	Newplanted	Replanted	Total
1970-71	6655	2089	8744	1994-95	7500	7000	14500
1980-81	19308	5476	24784	1995-96	7800	7500	15300
1985-86	21222	5759	26981	1996-97	10400	7000	17400
1986-87	19856	5563	25419	1997-98	13300	7500	20800
1987-88	19535	6517	26052	1998-99	8800	6500	15300
1988-89	19471	6998	26469	1999-00	6100	5200	11300
1989-90	20175	6854	27029	2000-01	4600	5000	9600
1990-91	15143	7154	22297	2001-02	4800	4800	9600
1991-92	13851	7100	20951	2002-03	4500	5500	10000
1992-93	11000	7200	18200	2003-04p	5200	5500	10700
1993-94	9200	6000	15200	2004-05p	8000	4600	10600



TABLE 2

STATE-WISE AREA UNDER RUBBER AT THE END OF EACH YEAR  
(Hectares)

State	1960-61	70-71	80-81	81-82	82-83	83-84	84-85	85-86	86-87	87-88	88-89	89-90	90-91
Kerala	135809	198424	253784	269821	287334	303774	323303	341506	356421	370079	383562	396467	407821
Tamil Nadu	6256	11712	15513	15740	16020	16240	16450	16567	16765	16917	17037	17100	17150
Karnataka	1659	6525	9004	9227	9502	9873	10710	11392	11913	12353	12809	13200	13995
Tripura			2746	3590	4578	5338	6545	7742	10085	12670	14326	16620	17320
Assam			568	789	840	929	1053	1242	1968	3178	5144	8350	9380
Meghalaya			923	1033	1108	1190	1266	1410	1831	2509	3229	3350	3466
Nagaland						105	205	355	525	675	910	1110	1300
Mizoram				170	276	420	470	570	620	690	810	900	950
Manipur			216	291	331	331	335	355	440	515	665	895	1203
A&N	181	537	900	900	902	908	912	919	930	943	948	950	960
Goa			512	563	604	640	711	773	831	851	861	923	970
Orissa												146	245
Maharashtra												132	143
Andhra Pradesh													
Total	143905	217198	284166	301924	321495	339848	361960	382831	402329	421512	440584	460341	475083
Annual growth rate	8.68	3.03	7.15	6.25	6.48	5.71	6.51	5.77	5.09	4.77	4.52	4.48	3.20

A&amp;N: Andaman &amp; Nicobar Islands.

TABLE - 2 (Contn.)

State	1991-92	92-93	93-94	94-95	95-96	96-97	97-98	98-99	99-00	2000-01	2001-02	2002-03p	2003-04p
Kerala	419174	428864	437138	443300	449000	455566	465282	469324	472300	474365	475039	476047	478402
Tamil Nadu	17210	17260	17300	17430	17948	18209	18470	18631	18659	18710	18704	18631	18633
Karnataka	14398	14650	14850	14955	16307	17324	18475	19323	19865	19735	20017	20294	20460
Tripura	17860	18250	18670	19252	20761	21982	22582	24120	25380	26495	27947	29853	30270
Assam	9740	9885	10008	10122	9943	10243	10060	10805	11644	12117	12806	13208	13541
Meghalaya	4058	4350	4521	4550	4105	4345	3757	3958	3683	4029	4354	4598	4758
Nagaland	1371	1370	1400	1450	1523	980	1287	1416	1615	1791	2024	2087	2091
Mizoram	960	960	972	979	913	934	628	671	543	585	619	696	709
Manipur	1215	1215	1220	1253	1400	1214	1308	1401	1610	1588	1698	1708	1773
A&N	964	970	969	960	954	976	969	931	931	931	960	960	962
Goa	978	998	935	936	828	922	924	939	839	872	843	870	755
Orissa	270	270	289	219	242	277	149	358	408	483	517	552	480
Maharashtra	150	154	150	91	101	143	305	163	180	189	165	200	182
Arunachal Pradesh	*	*	*	50	50	69	128	161	244	280	323	372	379
West Bengal	*	*	*	*	*	62	115	158	295	388	430	494	461
Andhra Pradesh	178	178	*	*	*	*	75	82	98	102	109	109	124
Total	488514	499374	508420	516547	524075	532146	544534	553041	558584	562670	566555	569667	573960
Annual growth rate	2.82	2.22	1.81	1.40	1.85	1.75	2.12	1.56	1.00	0.73	0.69	0.55	0.76

\* : Up to 1993-94 total area less than 100 hectares omitted, thereafter less than 50 hectares omitted.

TABLE - 3  
DISTRICT/STATE/UNION TERRITORY-WISE AREA OF RUBBER UNDER HOLDINGS & ESTATES  
(Hectares)

District/ State/ Union Territory	1960-61			1970-71			1980-81		
	Holdings	Estates	Total	Holdings	Estates	Total	Holdings	Estates	Total
1. Thiruvananthapuram	3657	1097	4754	6223	1414	7637	9208	971	10179
2. Kollam	13335	9888	23223	21116	12336	33454	28533	12548	41081
3. Alappuzha	2195	115	2310	3802	60	3862	4222	51	4273
4. Kottayam	35676	9818	45494	48313	9874	59187	61880	5046	66926
5. Idukki							15084	4813	19897
6. Ernakulam	13495	4568	18063	21807	6260	28067	23543	3312	26855
7. Thrissur	1537	5389	6926	3236	5847	9083	4392	5390	9782
8. Palakkad	2471	3640	6111	3237	1906	5143	9941	2038	11979
9. Malappuram				9930	7573	17503	14491	4833	19324
10. Kozhikode	8417	10325	18742	9283	7113	16396	13508	5663	19171
11. Kannur	7583	2603	10186	14664	3428	18092	21254	3063	24317
KERALA	89366	47443	135809	142611	55613	198424	206056	47728	253784
12. Kanyakumari	1736	3678	5614	5117	5922	11039	6858	8232	15090
Others	118	524	642	148	525	673	120	303	423
TAMIL NADU	1854	4402	6256	5265	6447	11712	6978	8535	15513
KARNATAKA	155	1504	1659	1924	4601	6525	2188	6816	9004
A & N ISLANDS							22	878	900
TRIPURA		181	181		537	537	159	2587	2746
ASSAM								568	568
MEGHALAYA								923	923
MANIPUR								216	216
GOA							40	472	512
Grand Total	90375	53530	143905	149800	67398	217198	215443	68723	284166
Percentage share	62.80	37.20	100.00	65.88	34.12	100.00	75.82	24.18	100.00

TABLE - 3 (Contn.)

District/ State/ Union Territory	1990-91			1995-96			2000-01		
	Holdings	Estates	Total	Holdings	Estates	Total	Holdings	Estates	Total
1. Thiruvananthapuram	21213	943	22156	25077	918	25995	27430	767	28197
2. Kollam	22957	9481	32438	26091	9255	35347	27453	8316	35717
3. Pathanamthitta	36511	6261	42672	41095	5968	47063	41794	6136	47869
4. Alappuzha	3350		3350	3573		3573	3801		3801
5. Kottayam	99205	4683	103888	105067	4515	109582	108924	4272	111196
6. Idukki	31166	4379	35545	32085	4255	36340	34051	4026	38367
7. Ernakulam	47991	3172	51163	52347	2900	55247	53873	2771	56676
8. Thrissur	6518	4752	11270	7898	4356	12254	9138	4235	13373
9. Palakkad	19707	1097	20804	24939	1092	26031	27871	1062	28933
10. Malappuram	18745	3875	22620	23271	3034	26305	26422	2787	29209
11. Kozhikode	12255	4395	16650	13415	3934	17349	14103	3587	17690
12. Wynad	4887	48	5035	5240	62	5302	6406	24	6430
13. Kannur	21371	1509	22880	27175	1245	28420	32668	1256	33944
14. Kasaragod	16164	986	17150	18469	823	19292	21665	557	22232
15. KERALA	45581	407821	452400	406642	42358	449000	433559	40806	474365
Others	9444	7276	16720	10636	6927	17563	11953	6339	18292
252	178	430	272	113		385	320	98	416
10908	7040	17948	17948	16307	6594	22901	12273	6437	18710
13895	890	14785	15675	1509	845	15940	13956	5779	19735
890	954	1844	2794	954		954	86	845	931
11242	11242	11242	11242	11242	11242	11242	17856	8359	26495
17300	2338	19638	21568	20761	2338	22100	17856	1649	19495
3466	1097	4563	5660	3466	1097	4563	10463	1649	12117
2448	3466	5914	8412	1097	3018	4115	10463	1649	12117
780	1300	2080	3380	662	861	1523	1653	138	1791
113	950	1063	2013	378	535	913	520	535	1055
113	1203	1316	2519	682	718	1400	1111	477	1588
778	970	1748	2726	296	532	828	431	441	872
546	145	691	837	42	59	101	131	58	189
107	245	352	559	118	124	242	399	94	493
80	0	80	80	13	37	50	243	37	280
0	0	0	0	*	0	*	285	103	388
0	0	0	0	*	0	*	102	0	102
178	0	178		*		*			
Grand Total	397465	77618	475083	449499	74576	524075	495358	67312	562670
Percentage share	83.66	16.34	100.00	85.77	14.23	100.00	88.04	11.96	100.00

\*. Statewise total area less than 50ha. omitted.

TABLE - 3(Contn.)

District/State/ Union Territory	2001-02			2002-03			2003-04		
	Holdings	Estates	Total	Holdings	Estates	Total	Holdings	Estates	Total
1. Thiruvananthapuram	27530	766	28296	27659	756	28415	27717	715	28432
2. Kollam	27528	835	36863	27549	9247	36796	27650	9091	36741
3. Pathanamthitta	41755	6107	47862	41764	6141	47905	41784	6006	47820
4. Alappuzha	3818	31	3849	3825	0	3825	3844	0	3844
5. Kottayam	107064	4237	111301	107618	4158	111776	107678	4037	111775
6. Idukki	34129	3994	38123	34164	4036	38200	34253	4123	38376
7. Ernakulam	53881	2729	56610	54023	2714	56737	54036	2856	56892
8. Thrissur	9153	4249	13402	9165	4231	13396	9272	4178	13448
9. Palakkad	27944	1041	28985	28025	1039	29064	28574	1038	29612
10. Malappuram	26537	2726	29263	26668	2667	29335	27241	2590	29931
11. Kozhikode	14128	3447	17575	14143	3448	17591	14268	3374	17642
12. Wynad	6426	24	6450	6451	0	6451	6636	0	6636
13. Kannur	32756	1256	34012	32835	1250	34085	33377	1204	34581
14. Kasargod	21708	640	22348	21780	640	22420	22205	567	22772
15. Kanyakumari	434457	40582	475039	435070	40377	476047	438535	39887	478402
Others	11953	6344	18297	11992	6226	18218	12007	6218	18225
16. TAMIL NADU	309	98	407	300	113	413	295	113	408
KARNATAKA	12262	6442	18704	12292	6339	18631	12302	6331	18633
A & N ISLANDS	14062	5965	20017	14222	5972	20294	14593	5867	20460
TRIPURA	115	845	960	115	845	960	127	835	962
ASSAM	19122	8625	27947	19509	8944	28853	21165	9105	30270
MEGHALAYA	11133	1673	12806	11559	1649	13208	11861	1680	13541
NAGALAND	2510	1844	4354	3436	1150	4586	3525	1233	4758
MIZORAM	1833	191	2024	1890	197	2087	1934	157	2091
MANIPUR	566	53	619	609	87	696	624	85	709
GOA	1221	477	1698	1231	477	1708	1296	477	1773
MAHARASHTRA	432	411	843	459	411	870	343	412	755
ORISSA	107	58	165	142	53	200	124	58	182
ARUNACHAL PRADESH	429	86	517	464	88	552	392	86	480
WEST BENGAL	285	37	323	340	32	372	342	37	379
ANDHRA PRADESH	327	103	430	347	147	494	365	96	461
Grand Total	498961	67594	566555	502894	66773	569667	507652	66328	573900
Percentage share	88.07	11.93	100.00	89.28	11.72	100.00	88.44	11.56	100.00

TABLE - 4

**CLASSIFICATION OF HOLDINGS AND ESTATES ACCORDING TO SIZE AT THE END OF EACH YEAR**  
(Area in hectares)  
**HOLDINGS**

Year	2 ha. & below			Above 2 ha. & upto including 4 ha.			Above 4 ha. & upto & including 20 ha.			Total	
	Units	Area		Units	Area		Units	Area		Units	Area
1960-61	67896	523403		4660	13981		2878	24054		75374	90375
1970-71	114924	82570		9922	25853		5593	41377		130439	149800
1980-81	218155	139809		11924	30140		6389	45494		236468	215443
1990-91	763022	332401		13100	33149		4465	31915		780587	337465
1991-92	797429	342010		13556	35569		4562	33044		815547	410623
1992-93	824298	351571		13627	36450		4575	33138		842500	421159
1993-94	845402	359451		13714	37205		4584	33437		863700	430093
1994-95	862728	365654		13984	37849		4678	34016		881400	437519
1995-96	892094	375957		14474	39079		4721	34463		911289	449499
1996-97	912112	384008		14724	40145		4801	35284		931637	459437
1997-98	935456	394412		17210	44104		5058	36364		957724	474880
1998-99	948553	402336		17317	44515		5108	36850		970978	483701
1999-00	963613	407801		17627	45031		5249	37645		986489	490277
2000-01	968656	412574		17647	45088		5257	37696		991560	495358
2001-02	974200	414146		18141	45803		5530	39012		997871	489861
2002-03	984580	428753		11377	34281		4810	39860		1000767	502894
2003-04p	988815	433198		11400	34350		4890	40104		1005105	507652



TABLE - 4 (Contn.)

## ESTATES

Year	Above 20 ha & upto 40 ha		Above 40 ha & upto 200 ha		Above 200 ha & upto 400 ha		Above 400 ha & upto 600 ha		Above 600 ha & upto 800 ha		Above 800 ha		Total	
	Units	Area	Units	Area	Units	Area	Units	Area	Units	Area	Units	Area	Units	Area
1960-61	271	7590	216	17812	29	8082	18	8768	5	3437	8	7841	547	53530
1970-71	309	8771	273	21318	29	8219	20	9966	6	4036	12	15088	649	67998
1980-81	258	7289	228	18659	25	7481	15	8208	10	6885	17	20201	553	68723
1990-91	120	3407	130	11348	22	6262	22	11051	17	11415	21	34135	332	77618
1991-92	123	3478	130	11533	22	6217	21	10822	17	11423	21	34618	334	77891
1992-93	126	3543	132	11555	22	6285	21	10649	17	11504	21	34679	339	78215
1993-94	129	3628	132	11406	22	6280	21	10679	17	11406	21	34928	342	78327
1994-95	130	3659	132	11377	22	6266	21	10638	17	11230	21	34858	343	78028
1995-96	114	3286	134	12291	25	7599	19	9835	15	10116	19	31459	326	74576
1996-97	112	3214	134	12262	25	7610	20	10303	13	8682	19	31738	323	73809
1997-98	111	3165	136	11732	23	6821	22	11396	11	7328	19	29212	322	69654
1998-99	111	3171	136	11743	23	7059	21	10775	11	7313	19	29279	321	69340
1999-00	111	3186	137	11680	23	7159	20	10301	11	7284	19	28695	321	66307
2000-01	108	3118	135	11591	24	7487	21	10720	9	5887	19	28509	316	67312
2001-02	98	2917	136	11547	24	7548	21	10721	9	5872	19	28989	307	67594
2002-03	90	2649	136	11494	23	7171	22	11119	9	5884	19	28456	299	66773
2003-04p	76	2218	137	11744	18	5541	20	10047	9	5918	21	30960	281	66328

CHART 1

## AREA UNDER HOLDINGS AND ESTATES

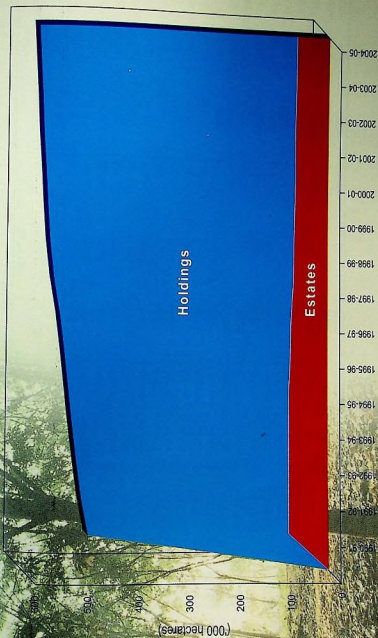






TABLE - S

AREA UNDER HIGH YIELDING AND UNSELECTED MATERIALS  
(Hectares)

Year	HOLDINGS			ESTATES			TOTAL		
	High yielding	Unselected	Total	High yielding	Unselected	Total	High yielding	Unselected	Grand Total
1960-61	26912	63463	90375	23811	23719	55530	50723	93182	143905
1965-66	53048	69962	123010	39534	24169	63703	92562	94131	186713
1970-71	83030	66770	149800	55397	12001	67398	138427	78771	217198
1975-76	107326	61361	168687	64978	2211	67189	172304	63572	235876
1980-81	169699	45744	215443	68110	613	68723	237809	46357	284166
1985-86	270835	38374	310209	72072	550	72622	342907	39924	382831
1990-91	365315	32150	397465	77228	390	77618	442543	32540	475083
1991-92	379036	31587	410623	77519	372	77891	458555	31959	488514
1992-93	390648	30511	421159	77858	357	78215	468506	30868	493774
1993-94	402705	27368	430093	77987	340	78327	480692	27728	508420
1994-95	412676	24643	437519	77689	339	78028	480565	22582	515547
1995-96	427235	22264	449499	74260	316	74576	501495	22580	524075
1996-97	439224	20213	459437	73522	287	73809	512746	20500	533246
1997-98	456635	18045	474680	69398	256	69654	526233	18301	544534
1998-99	468105	15596	483701	69084	256	69340	537189	15852	553041
1999-00	476289	13988	490277	68080	227	68307	544369	14215	558584
2000-01	486045	9313	495358	67118	194	67312	553163	9507	562570
2001-02	491080	7881	498961	67437	157	67594	558517	8038	566555
2002-03	496485	6409	502894	66558	115	66773	563143	6524	569667
2003-04p	503260	4392	507652	66278	50	66328	569538	4442	573980

TABLE - 6

**TAPPED AREA, PRODUCTION AND AVERAGE YIELD PER HECTARE IN DIFFERENT STATES**  
(Area in hectares, Production in tonnes and Yield per hectare in kilograms)

Year	KERALA			TAMIL NADU			KARNATAKA			OTHERS			TOTAL		
	Tapped area	Production	Yield	Tapped area	Production	Yield	Tapped area	Production	Yield	Tapped area	Production	Yield	Tapped area	Production	Yield
1960-61	55355	23175	354	3305	2040	617	1483	452	305	110	30	272	70253	25697	366
1970-71	134103	86773	647	5673	4859	857	1374	519	378	26	20	769	141176	92171	653
1980-81	179980	140320	780	9700	10446	1077	4004	2128	531	561	206	367	194245	153100	788
1990-91	284960	307521	1079	11873	13645	1149	6957	6865	958	2623	1784	680	306413	329615	1076
1991-92	301360	343109	1139	12180	13975	1147	7370	7260	985	3630	2401	661	324540	366745	1130
1992-93	306539	368648	1203	12110	14250	1177	7872	7910	1005	3979	2682	674	330500	393490	1191
1993-94	313416	408311	1304	12215	14720	1205	8410	8626	1026	4509	3503	777	338550	435160	1285
1994-95	318965	442830	1389	12550	15065	1200	9175	9700	1057	5580	4220	756	346270	471815	1362
1995-96	328812	474555	1443	12420	17335	1396	9530	10275	1078	5682	4745	835	356444	506910	1422
1996-97	335400	512756	1529	12730	18505	1454	9760	11160	1143	7680	7004	911	365580	549425	1503
1997-98	342420	541935	1583	13000	19175	1475	10365	12150	1172	11185	10570	945	376870	583830	1549
1998-99	349683	559069	1599	13215	20263	1533	10685	12549	1174	13517	13134	972	387100	605045	1563
1999-00	355342	572820	1612	13377	21134	1580	10980	13115	1194	15101	15196	1006	394800	622265	1576
2000-01	359780	579898	1612	13651	21611	1583	11043	13368	1211	15427	15560	1009	399901	630405	1576
2001-02	360006	580350	1612	13677	21631	1582	11110	13465	1212	15920	15954	1002	400713	631400	1576
2002-03	363791	594917	1635	14065	22253	1582	11278	13659	1211	16819	18606	989	407953	649435	1592
2003-04p	381970	655135	1715	14170	22520	1589	11488	14070	1225	20307	19925	981	427935	711650	1663

CHART 2

# AVERAGE YIELD PER HECTARE (Kilograms)



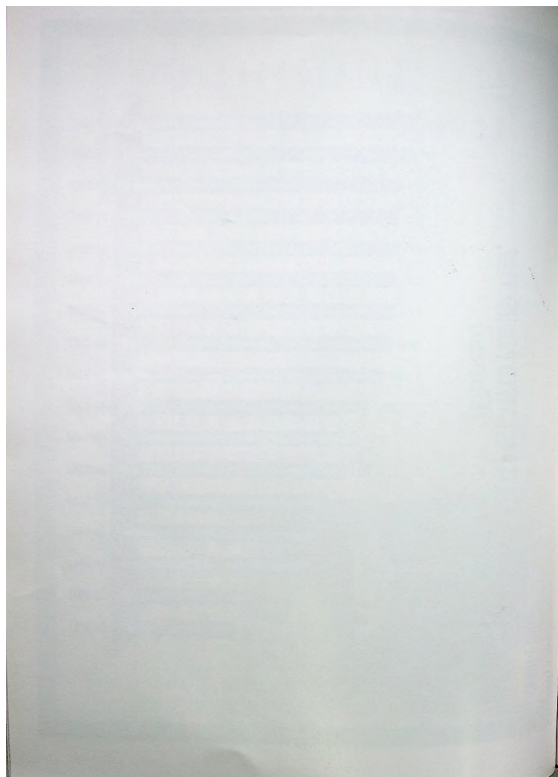


TABLE - 7

# MONTH-WISE PRODUCTION OF NATURAL RUBBER (Tonnes)

Month	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05p
April	23590	35300	38315	41080	41735	43355	44105	40035	39800	45580	47550
May	20570	37210	44890	47460	47640	37665	47345	43350	42410	49960	47300
June	18310	29660	36140	40180	41220	38990	40400	39175	43635	47035	48205
July	20520	32540	35810	36990	38580	40220	42750	43490	45835	49485	53110
August	25260	39475	40545	43440	46790	50870	45320	51485	51475	56950	63590
September	34850	48260	51360	55980	46470	58250	56550	56450	58460	64815	73130
October	37965	53040	55110	59320	57130	60555	64825	62460	63215	71290	75395
November	37885	58815	63150	65255	71065	76225	72090	75525	75410	85325	89065
December	39840	62660	64820	71420	75750	77430	76850	79410	80495	89450	91455
January	35650	55990	60125	64785	69710	70365	70550	73030	75525	77545	80110
February	16265	25085	27590	28260	31560	32190	32515	31855	35050	36455	38205
March	18910	28875	31570	29660	35395	36150	37105	35145	38105	38760	41550
Total	329615	506910	549425	583830	605045	622265	630405	631400	649435	711650	749665
Annual growth rate	10.87	7.44	8.39	6.26	3.63	2.85	1.31	0.16	2.86	9.58	5.34

TABLE - 8

**TYPE-WISE PRODUCTION OF NATURAL RUBBER**  
(Tonnes)

Type	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05p
RSS Grades	236530	373455	396160	436560	436275	454180	455175	453465	441875	490070	532155
Latex Concentrates(drc)	39440	59695	61550	55400	64565	60640	65975	62990	76205	81860	78795
Solid Block Rubber	16980	41110	51960	49910	59715	60095	60225	65650	81405	87665	84275
Pale Latex Crepes	2725	2310	1565	1315	1980	1845	1975	1645	1750	1765	2070
Others	33940	30340	38190	40645	42510	45505	47055	47650	48200	50290	52370
<b>Total</b>	<b>329615</b>	<b>506910</b>	<b>549425</b>	<b>583830</b>	<b>605045</b>	<b>622265</b>	<b>630405</b>	<b>631400</b>	<b>649435</b>	<b>711650</b>	<b>749665</b>



TABLE - 9

## PRODUCTION OF HOLDINGS AND ESTATES

(Tonnes)

Year	Holdings	Estates	Total	Year	Holdings	Estates	Total
1960-61	6528	19169	25697	1992-93	327500	65990	393490
1965-66	20424	30106	50530	1993-94	367950	67210	435160
1970-71	51538	40833	92171	1994-95	405900	65915	471815
1975-76	84616	53134	137750	1995-96	436500	70410	506910
1980-81	107700	45400	153100	1996-97	475000	74425	549425
1985-86	149673	50792	200465	1997-98	507000	76830	583830
1986-87	168195	51325	219520	1998-99	527000	78045	605045
1987-88	181710	53487	235197	1999-00	544600	77665	622265
1988-89	204000	55172	259172	2000-01	553770	76635	630405
1989-90	239400	57900	297300	2001-02	555320	76080	631400
1990-91	268500	61115	329615	2002-03p	580080	69355	649435
1991-92	302700	64045	366745	2003-04p	647095	64555	711650



TABLE - 10

## DISTRICT-WISE PRODUCTION OF NATURAL RUBBER

(Tonnes)

District/State	1970-71	1975-76	1980-81	1985-86	1990-91	1995-96	2000-01	2001-02	2002-03p	2003-04p
Thiruvananthapuram	3581	5223	5933	8475	15513	27298	33318	33586	34206	36028
Kollam	16141	24185	25561	19807	26951	38821	46289	46854	48386	50038
Pathanamthitta	--	--	--	16245	34264	52974	62423	62502	62833	67988
Alappuzha	1713	2409	2771	2722	2140	3135	4003	4114	4356	5092
Kottayam	26907	34021	36132	50134	82852	120846	141266	140543	143244	152883
Idukki	--	10187	11140	15611	26638	38356	45405	45260	45295	4949
Ernakulam	11907	12292	13929	19419	37586	62159	73557	73219	73752	7964
Thrissur	5700	7190	6739	6079	9108	15513	19670	19762	19932	2138
Palakkad	1466	3816	4516	7150	12531	22571	31619	31759	34334	4091
Malappuram	6451	9132	10571	11419	14855	24430	33007	32904	33883	3995
Kozhikode	7656	10076	10730	8602	12769	19490	22871	22884	23490	2554
Wynad	--	--	--	1635	2357	3015	3955	4038	4753	623
Kannur	5251	10238	12298	9841	16808	26876	38459	38800	40658	5038
Kasaragod	--	--	--	7424	13149	18971	24024	24125	25795	29758
Kerala	86773	128769	140320	184563	307521	474555	579666	580350	594917	655135
Outside Kerala	5398	8981	12780	15902	22094	32355	50539	51050	54518	56515
Grand Total	92171	137750	153100	200465	329615	506910	630405	631400	649435	711650

Note : Wynad District was formed in November 1980 from Kozhikode & Kannur Districts; Pathanamthitta District in November 1982 from Kollam & Alappuzha Districts and Kasargode District in May 1984 from Kannur District.

CHART 3

# TYPE-WISE PRODUCTION OF NR-2004-05

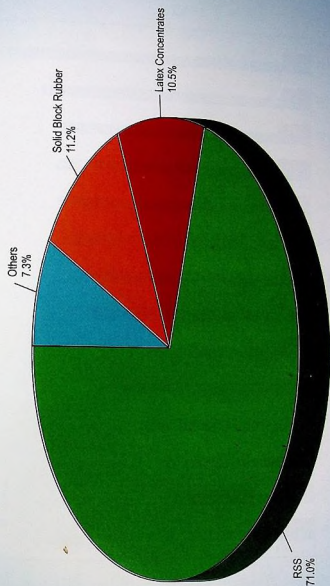
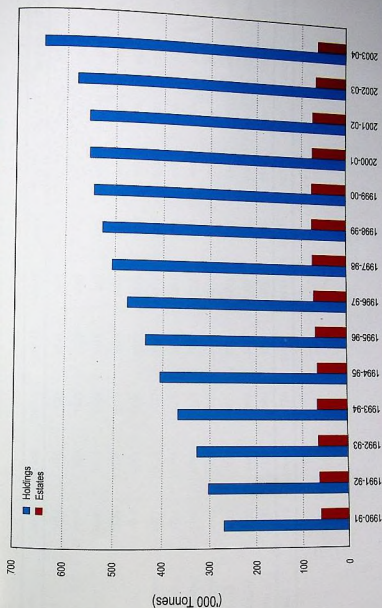




CHART 4

# PRODUCTION OF HOLDINGS AND ESTATES



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TABLE - II

## MONTH-WISE IMPORT OF NATURAL RUBBER

(Tonnes)

Month	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05p
April	10614	940	1021	2347	2959	1751	255	162	2015	815	4717
May	7759	820	1619	1737	1085	889	708	843	1282	6095	6885
June	8096	3290	1584	3518	905	1284	1367	1299	894	4519	7788
July	2598	12301	3156	3378	3483	2125	1839	3064	2088	5377	7245
August	4718	16854	1531	2518	3842	4573	567	7432	5067	8186	5446
September	5977	5658	1057	2190	4712	2208	968	8766	688	3651	7890
October	1794	1754	876	2115	1807	1843	918	3938	817	2295	4169
November	1143	6562	727	1368	1376	1580	749	5398	336	1129	4658
December	2013	231	1927	3168	1813	724	278	6441	161	1056	3318
January	1261	810	1573	2741	4573	580	334	6230	3187	2457	6481
February	1132	1443	1819	3457	1587	1728	232	3900	6114	2848	6546
March	1888	1172	2680	3533	1282	930	855	2296	3558	5771	3775
Total	49013	51635	19770	32070	29534	20213	8970	49769	26217	44199	66718

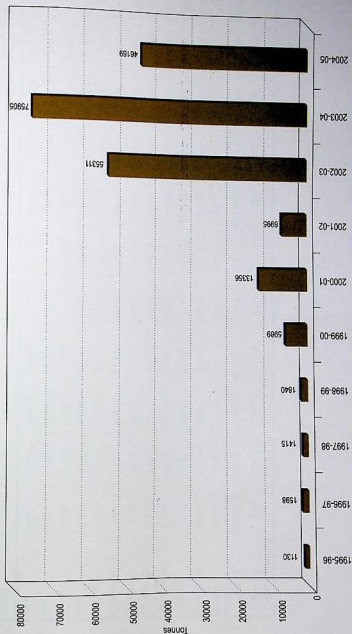
TABLE - 12

# COUNTRY-WISE EXPORT OF NATURAL RUBBER (Tonnes)

COUNTRY	1998-99	1999-2000	2000-01	2001-02	2002-03	2003-04	2004-05p
Australia	230	40	162	34	586	619	774
Belgium	..	..	..	..	193	1651	212
China	..	..	1350	665	13314	31226	16485
Egypt	..	..	..	..	162	385	547
France	..	24	18	..	..	226	168
Germany	..	19	..	10	1375	2469	2779
Hungary	..	..	..	..	33	109	96
Indonesia	..	756	3582	2337	9149	1444	..
Iran	..	..	..	..	16	864	..
Japan	..	..	..	..	..	56	..
Kenya	..	..	108	..	452	321	16
Korea	..	..	..	..	36	218	301
Malaysia	..	162	343	..	9801	7775	4388
Mexico	47	..	..	..	..	..	..
Nepal	1491	937	927	727	1267	1798	1585
Netherlands	..	..	..	..	315	237	64
Pakistan	..	162	2556	1349	1900	1533	618
Poland	..	..	..	..	95	146	62
Russia	17	9	..	..	402	400	..
South Africa	..	72	..	..	185	76	152
Singapore	19	3798	2047	..	1538	1936	1110
Spain	..	..	658	10	2689	3222	2153
Sri Lanka	..	..	630	1406	4486	9995	10246
Tanzania	36	..	..	..	106	..	120
Thailand	..	..	..	173	..	42	..
Turkey	..	..	792	57	5182	4337	1858
U.A.E.	..	..	..	199	276	581	337
U.K.	..	..	..	13	746	1236	331
Ukraine	..	..	..	..	209	648	105
U.S.A.	..	..	..	..	207	16	..
Zimbabwe	..	..	144	..	291	..	..
Others	..	10	39	15	300	2339	1662
Total Quantity	1840	5989	13356	6995	55311	75905	46169
Value(Rs.Crores)	5.59	16.20	37.36	16.91	185.27	346.88	225.45

CHART 5

## EXPORT OF NATURAL RUBBER





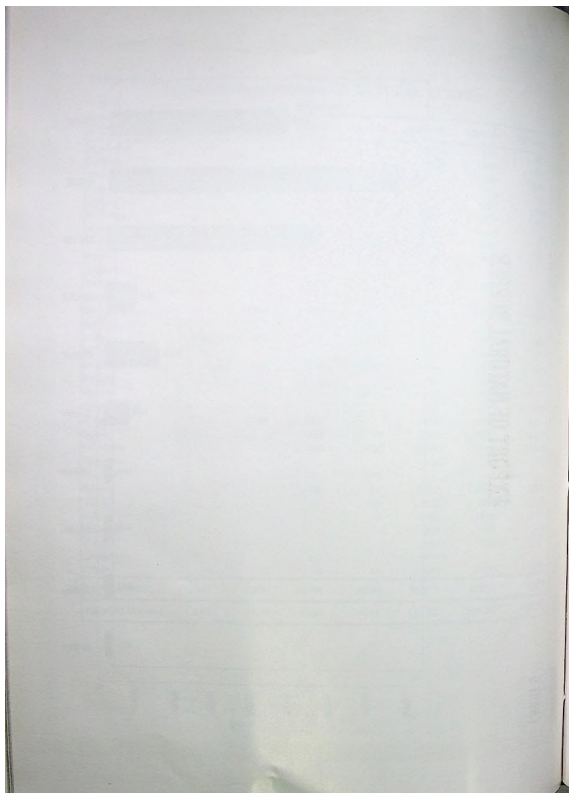


TABLE-13

## MONTH-WISE CONSUMPTION OF NATURAL RUBBER

(Tonnes)

Month	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05p
April	29040	41770	45030	44800	45190	49705	51040	52875	54510	54130	59020
May	29215	41525	45955	48500	46020	51290	51675	54505	56505	59095	60695
June	29350	41140	46530	46050	48250	50315	53225	55010	56740	60275	62640
July	31040	43455	49360	48320	47710	52115	53950	52555	56920	61450	64265
August	29420	43265	47525	49810	47550	49775	52415	50820	57935	61205	64210
September	29140	41250	47350	48455	49910	53460	51565	51010	57390	60310	64525
October	30335	43855	45060	47450	48590	50315	51060	51935	57750	58925	62455
November	31405	46480	48050	48150	52400	53670	55450	53150	58470	61405	61115
December	31585	45650	48260	49350	53900	56505	56245	54425	59455	63205	65150
January	31530	45485	49400	48910	51155	54310	52440	54950	60210	61175	63515
February	30670	44410	45045	45275	48535	53195	50475	53045	59525	59825	63505
March	31380	47180	47200	47250	52335	53455	51935	54430	58125	60200	64310
Total	364310	525465	561765	571820	591545	628110	631475	638210	695425	719600	755405
Annual growth rate	6.57	8.15	6.91	1.79	3.45	6.18	0.54	1.07	8.96	3.48	4.99

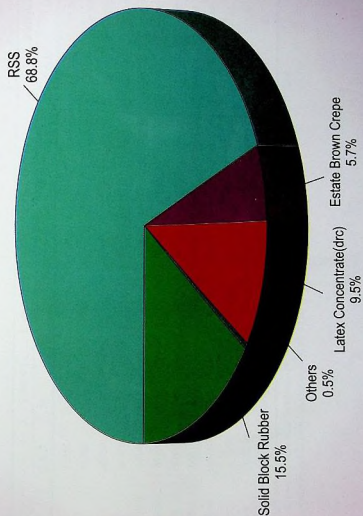
TABLE - 14

**TYPE-WISE CONSUMPTION OF NATURAL RUBBER**  
(Tonnes)

Type	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05p
RSS grades	261780	383280	415220	419935	432695	462120	463280	446150	492980	501625	519855
Estate Brown Crepe	30367	27923	32350	30860	29435	31835	32785	33405	34030	37685	43125
Latex Concentrate(drc)	39865	57995	58255	58100	65430	66775	70870	72595	77540	78660	71880
Pale Latex Crepe & Sole Crepe	3307	2826	1780	1395	1920	2190	2250	2360	2615	2515	2210
Solid Block Rubber	27700	52205	55080	60780	61295	64385	61680	82850	87305	98205	117130
Others	1291	1236	1100	750	770	805	610	850	955	910	1205
<b>Total</b>	<b>364310</b>	<b>525465</b>	<b>561765</b>	<b>571820</b>	<b>591545</b>	<b>628110</b>	<b>631475</b>	<b>638210</b>	<b>695425</b>	<b>719600</b>	<b>755405</b>

CHART 6

# TYPE-WISE CONSUMPTION OF NR-2004-05



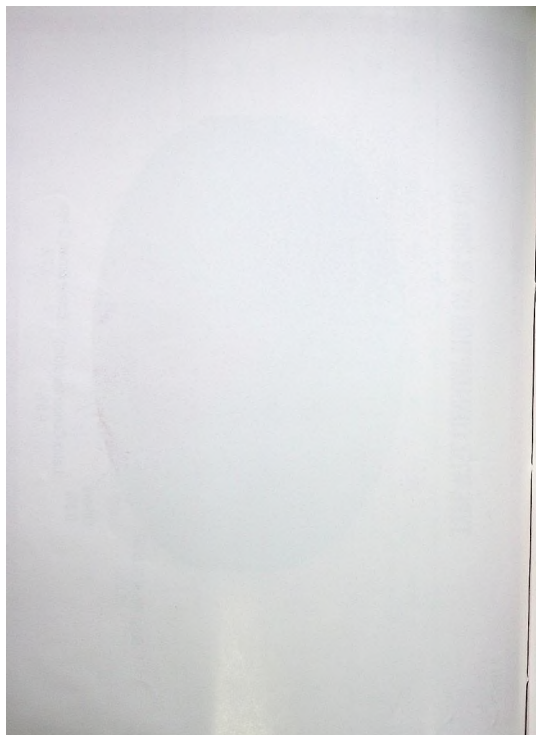


TABLE - 15

**STOCK OF NATURAL RUBBER WITH GROWERS, DEALERS AND MANUFACTURERS  
AT THE END OF EACH MONTH**

(Tonnes)

Month	1990-91			2000-01			2001-02			
	G & D	M	STC	T	G & D	M	T	G & D	M	T
April	25550	25185	24251	74986	135278	49602	184880	133700	37460	171190
May	26860	26600	21108	74568	131517	49568	180475	122530	38300	160830
June	23730	28790	19632	72152	117945	50075	168020	106740	36575	143315
July	23475	26965	13923	64363	113355	44185	157540	105425	31115	136540
August	26165	25760	13281	65206	116395	34000	150395	106195	35520	141715
September	35100	23750	16891	75741	129010	27080	156090	116715	37320	153035
October	40410	27940	16891	85241	136715	32475	169190	133010	34580	167590
November	50015	25965	16891	92871	148560	36240	184820	158425	36435	194860
December	55720	30720	16891	103331	167950	35380	203330	181615	43885	225500
January	59295	33580	16891	109766	176540	43160	221700	196840	51150	247990
February	42225	35795	18341	96361	161980	41095	203075	172160	56875	223035
March	30230	34045	22155	86430	136310	47590	183900	133490	59580	193070

Note: G - Growers, D - Dealers & Processors, M - Manufacturers, STC-State Trading Corporation of India, T- Total.

Stock with manufacturers includes stock in transit as well as imported rubber.

TABLE - 15 (Contn.)

Month	2002-03			2003-04			2004-05p		
	G & D	M	T	G & D	M	T	G & D	M	T
April	111200	65290	176490	59675	49725	109400	31085	46495	77590
May	100030	60950	160980	62550	43740	106290	30205	38750	68955
June	93835	52015	145850	53190	42830	96020	29505	32270	61775
July	83875	47335	131210	53760	33060	86820	28140	31040	57180
August	87595	41125	128720	53305	32490	85795	32535	28765	61300
September	91830	32520	124350	59135	28275	87410	41310	30770	72080
October	87335	34995	122330	68810	28320	95130	49690	29730	79420
November	100605	34590	135195	78750	31320	110070	67555	35305	102860
December	111145	40495	151640	92300	38410	130710	81756	43804	125560
January	119295	46575	165870	102225	43465	143690	94225	53615	147840
February	84280	57080	141360	68880	44390	113270	72410	55040	127450
March	65655	52340	117995	37510	47680	85190	55095	51105	108200

TABLE - 16

**MONTH-WISE PRODUCTION OF SYNTHETIC RUBBER**  
(Tonnes)

Month	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05p
April	3615	4089	4208	4695	4861	4401	5296	5680	6040	7885
May	4801	5635	6121	5984	5453	2913	5218	6487	6548	7542
June	6415	4323	6157	5632	5528	6136	5478	6791	5687	7922
July	7118	6370	5693	5793	5943	5751	5199	5904	7863	8035
August	7137	5872	7342	6761	5540	5819	5568	7505	7029	7888
September	4402	4325	6097	4582	5321	5443	5536	6715	8402	7638
October	5975	3286	6174	4953	4390	5308	6660	6247	6954	7403
November	5021	6123	6287	5827	5067	5083	5846	6370	7797	7875
December	8628	5770	7199	5745	5362	6563	6267	7209	7780	8208
January	5301	7347	5645	5558	4001	6504	5880	7800	8551	7566
February	5666	5690	5121	5461	3995	5597	5975	6642	7563	7278
March	6146	5753	5949	6619	4832	5942	6730	7041	8132	8989
Total	68223	64563	71993	67590	60293	65460	69653	80401	88366	94209



TABLE - 17

# TYPE-WISE PRODUCTION OF SYNTHETIC RUBBER (Tonnes)

Type	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p	2004-05p
SBR 1502	11608	9897	6243	3035	239	--	--	--	--	--
SBR 1712	7645	6265	5031	1183	--	--	--	--	--	--
SBR 1958*	17704	20529	17770	15139	12322	12482	15197	15363	16820	16222
Latex(drc)*	3389	4064	3038	1984	1411	1422	1642	1490	2424	3143
Nitrile	2837	4300	3619	4445	5280	5151	6275	6781	6887	6660
Polybutadiene	21442	15547	32789	36760	35750	40670	41994	50977	55652	63762
EPDM	3598	3597	3136	4619	4811	4304	3835	5010	6003	3668
Others	--	364	367	425	480	1431	710	780	780	754
Total	68223	64563	71993	67590	60293	65460	69653	80401	88366	94209
Annual growth rate(%)	7.13	-5.36	11.51	-6.12	-10.80	8.57	6.41	15.43	9.91	6.61

\* including HSR

\* includes SBR Latex, VP Latex and Nitrile Latex.

TABLE - 18

## TYPE-WISE CONSUMPTION OF SYNTHETIC RUBBER

(Tonnes)

Type	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05P
Styrene butadiene rubber @	51920	54424	55220	51245	53790	54935	55945	65110	71030	75610
Polybutadiene	38700	42033	50250	44040	49245	49810	49995	55170	61120	64620
Butyl	24645	26845	32110	35910	37925	39940	40385	44850	47400	51900
Polychloroprene	3795	3952	4610	4680	5115	5310	5655	5450	5775	6220
Nitrile	4790	4880	5835	6455	6605	5875	6405	7055	7280	7935
Latex(dre)	4320	4740	5070	5050	5025	5030	5180	5605	5970	6190
EPDM	3200	3400	4265	5985	6190	5920	6430	6730	7040	7195
Others*	2715	2636	3555	3050	3325	3850	4535	4880	4575	4980
Total	134085	142810	160915	156395	167220	170670	174530	194850	210190	224650
Annual growth rate	9.27	6.51	12.68	-2.81	6.92	2.06	2.26	11.64	7.87	6.89

@ : Include SBR latex.

\* : Include unclassified rubber also.

TABLE-19

**STOCK OF SYNTHETIC RUBBER AT THE END OF EACH MONTH**  
(Tonnes)

Month	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p	2004-05p
April	14700	20455	31420	29420	41020	44500	45180	51385	66775	49275
May	14485	20785	30940	31980	39350	44180	43440	52900	64745	46745
June	14810	23325	32180	31630	39980	46875	42070	54445	60565	43990
July	16110	23230	32735	33895	40920	47900	44435	57125	58830	43150
August	17500	23885	31630	36390	40530	47210	46255	60995	55605	42560
September	16300	24110	30825	34675	40820	47530	46245	63320	55130	41870
October	16820	24160	28890	34240	37805	47010	46710	67410	53375	40830
November	17195	25175	27435	36640	37920	46180	47775	68665	51075	39700
December	17400	24740	27075	37960	40495	45655	48225	68520	51645	38750
January	16380	27110	26005	38150	39690	47040	49010	68995	51835	37560
February	16100	27825	27385	40440	39785	46240	49840	65625	51750	33715
March	18760	31560	29030	42410	43505	45220	51930	67385	50295	32950

TABLE - 20

**PRODUCTION, CONSUMPTION AND EXPORT  
OF RECLAIMED RUBBER  
(Tonnes)**

Year	Production	Consumption	Export
1970-71	15507	14348	259
1980-81	29336	26850	1127
1981-82	28787	28160	896
1982-83	28242	29190	520
1983-84	32964	30690	524
1984-85	34155	34625	446
1985-86	39195	38215	201
1986-87	38995	38635	188
1987-88	40535	41140	278
1988-89	40960	42450	699
1989-90	47615	46300	752
1990-91	53629	52500	985
1991-92	54185	54015	573
1992-93	61490	62470	379
1993-94	62780	63110	810
1994-95	64425	64655	1928
1995-96	65780	65775	2078
1996-97	66670	66585	3306
1997-98	69840	70085	2271
1998-99	63980	63095	1252
1999-00	64080	63450	2184
2000-01	62120	62260	3349
2001-02	63550	63875	5766
2002-03	67385	67320	7625
2003-04p	70990	70460	9462
2004-05p	73060	72905	10381



TABLE - 22

**TOTAL STOCK OF NATURAL AND SYNTHETIC RUBBER WITH PRODUCERS,  
DEALERS AND MANUFACTURERS AT THE END OF EACH MONTH**  
(Tonnes)

Month	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p	2004-05p
April	78420	117795	136860	175865	223180	229380	216370	227885	176175	128855
May	74240	116685	136650	180910	208620	224655	204270	213880	171035	115700
June	67080	112775	135015	174220	198175	214895	185385	200295	156605	105765
July	68905	101945	127150	169840	189955	205440	180975	189335	145450	100330
August	81565	96795	122250	174790	194340	197605	187970	189715	141400	103860
September	98865	102010	131060	175005	201055	203620	192280	187870	142540	113950
October	111150	112380	142900	185450	209605	216200	214300	189740	148505	120250
November	126305	130995	159670	207860	232855	231000	242635	203960	161145	142560
December	144750	148170	184025	232035	255595	248995	273725	220160	182355	164310
January	155145	163705	201860	254260	270730	268740	297000	234865	195525	185400
February	136480	148510	188775	240825	250055	249315	278675	206985	165020	161165
March	121950	138870	176330	230375	236075	229120	245000	185380	139485	139150

TABLE - 23

## PRODUCTION, IMPORT, EXPORT, CONSUMPTION AND STOCK OF NATURAL RUBBER

(Tonnes)

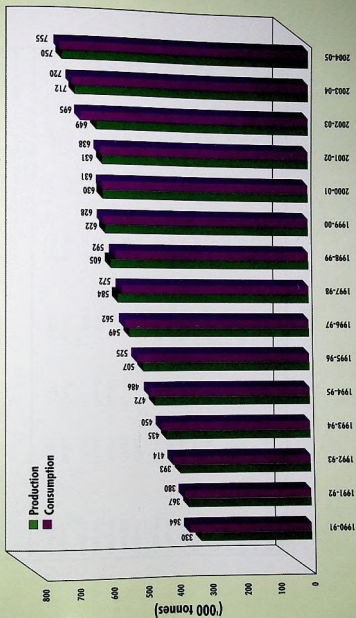
Year	Production	Annual growth rate	Import	Total Supply	Export	Consumption	Annual growth rate	Total Demand	Excess(+) / Deficiency(-) compared with demand	Stock at the end of the period
1960-61	25697	6.30	23125	48822		48148	18.91	48148	+ 674	9875
1970-71	92171	12.47	2469	94640		87237	1.19	87237	+ 7403	39109
1980-81	153100	3.12	9250	162350		173630	5.07	173630	- 11280	33700
1990-91	325615	10.87	49013	378628		364310	6.57	364310	+14318	86430
1991-92	366745	11.26	15070	381815	5834	380150	4.35	385984	- 4169	81250
1992-93	393490	7.29	17884	411374	5999	414105	8.93	420104	- 8730	71140
1993-94	435160	10.59	19940	455100	186	450480	8.78	450666	+ 4434	77015
1994-95	471815	8.42	8003	479908	1961	485850	7.85	487811	- 7903	69550
1995-96	506910	7.44	51635	558545	1130	525465	8.15	526595	+ 31950	103190
1996-97	549425	8.39	19770	569195	1598	561765	6.91	563363	+ 5832	107310
1997-98	583830	6.26	32070	615900	1415	571820	1.79	573235	+ 42665	147300
1998-99	605045	3.63	29534	634579	1840	591545	3.45	593385	+ 41194	187965
1999-00	622285	2.85	20213	642478	5989	628110	6.18	634099	+ 8379	192570
2000-01	630405	1.31	8970	639375	13356	631475	0.54	644831	- 5456	183900*
2001-02	631400	0.16	49769	681169	6995	638210	1.07	645205	+35964	193070*
2002-03	649435	2.96	28217	675652	55311	695425	8.96	750736	-75084	117995*
2003-04	711650	9.58	44199	755849	75905	719600	3.48	795505	-39656	85190*
2004-05p	749665	5.34	68718	818383	46169	755405	4.98	801574	+16809	106200*

\*Including year end adjustment



CHART 7

# PRODUCTION AND CONSUMPTION OF NR





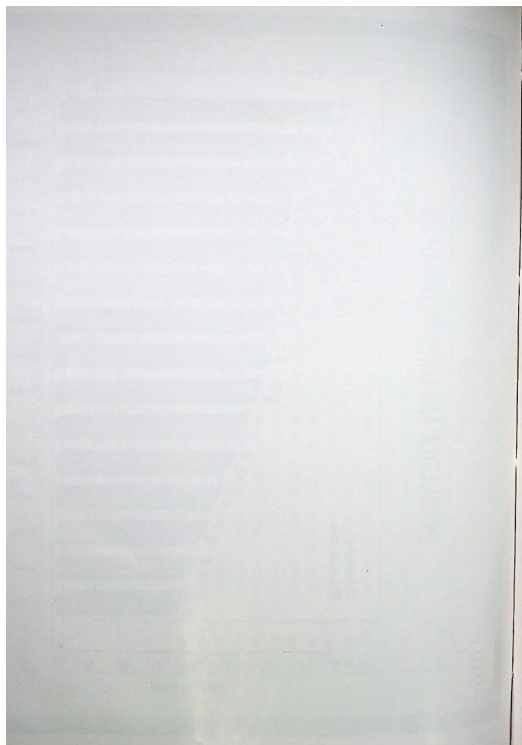


TABLE 24

**PRODUCTION, IMPORT, CONSUMPTION AND STOCK OF  
SYNTHETIC RUBBER**  
(Tonnes)

Year	Production	Import	Total	Consumption	Excess(+)/ Deficiency(-) compared with demand	Stock at the end of the period
1970-71	29791	5014	34805	33160	+ 1645	13984
1980-81	25293	17492	42785	47050	- 4265	10900
1990-91	57293	51715	109008	104735	+ 4273	19500
1991-92	57726	39210	96936	105650	- 8714	11470
1992-93	57892	47362	105254	108690	- 3436	12390
1993-94	49633	64338	113971	113395	+ 576	14665
1994-95	63681	73860	137541	122710	+ 14831	20285
1995-96	68223	71735	139958	134065	+ 5873	18760
1996-97	64563	91050	155613	142810	+ 12803	31560
1997-98	71993	86389	158382	160915	- 2533	29030
1998-99	67590	97548	165138	156395	+ 8743	42410
1999-00	60293	104842	165135	167220	- 2085	43505
2000-01	65460	106923	172383	170870	+ 1713	45220
2001-02	69653	111572	181225	174530	+ 6695	51930
2002-03	80401	129902	210303	194850	+ 15453	67385
2003-04p	88366	104733	193099	210190	- 17091	50295
2004-05p	94209	113095	207304	224850	- 17346	32950

TABLE - 25

STATE-WISE CONSUMPTION OF ALL KINDS OF RUBBER  
(Tonnes)

State/Union Territory	1970-71			1980-81			1985-86		
	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total	Total
Andhra Pradesh	+	+	+	+	2223	250	186	2659	4538
Delhi	1956	199	96	2251	6311	1372	1071	8754	10209
Goa & Daman	+	+	+	+	2409	350	55	2814	4180
Gujarat	1192	161	45	1398	3034	560	583	4177	4982
Haryana	4475	2439	193	7107	14974	4421	1548	20943	18780
Karnataka	631	609	358	1598	5770	1944	699	8413	11670
Kerala	6739	1798	380	8917	19283	4673	2293	26249	28341
Madhya Pradesh	+	+	+	+	+	+	+	+	920
Maharashtra	19896	9897	3231	32824	33119	11678	5748	50545	37351
Punjab	2277	206	269	2752	13232	1565	2463	17260	27172
Rajasthan	+	+	+	+	5482	2448	59	7989	12259
Tamil Nadu	17548	5966	2628	26142	17050	4951	2472	24483	19037
Uttar Pradesh	1180	153	59	1372	22578	4601	2057	29236	29458
West Bengal	30988	11634	7015	49637	27414	7771	7571	42756	27538
Others	575	98	74	747	751	456	45	1252	965
Total	87237	33160	14348	134745	173630	47050	26850	247530	237440
									70035
									38215
									345690

+: included in others.

TABLE - 25 (Contn.)

State/Union Territory	1990-91			1995-96			2000-01					
	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total
Andhra Pradesh	8907	2594	1743	13244	19015	6573	3115	28703	19906	9330	3166	32402
Bihar	+	+	+	+	1151	341	206	1698	1304	317	186	1807
Delhi	15613	3747	1804	21164	19819	2749	1868	24436	18360	2176	1478	22014
Goa & Daman	6214	1501	667	8382	11689	2606	530	14825	23552	8556	974	33082
Gujarat	6889	1402	1021	9312	24245	4058	1715	30018	35107	6213	1622	42942
Haryana	22728	7108	1373	31207	31194	8270	1775	41239	38638	7596	1424	47658
Karnataka	16978	6602	2267	25847	24285	7294	4324	35903	31233	9312	4476	45021
Kerala	55365	15232	5015	75612	75200	22727	6232	104159	88221	32978	6773	127972
Madhya Pradesh	4120	1040	1151	6311	19183	3124	2045	24352	27732	11404	3159	42295
Maharashtra	47219	21370	8729	77318	62840	24899	9673	97412	68344	25989	8322	102655
Orissa	+	+	+	+	16893	4141	430	21464	24072	4907	692	29671
Pondicherry	+	+	+	+	3067	816	42	3925	2531	718	34	3283
Punjab	46158	3735	12917	62810	62028	5993	15230	83251	82843	8001	16542	107386
Rajasthan	17936	6932	567	25435	22249	6056	546	28851	35867	8423	465	44755
Tamil Nadu	21213	11254	4428	36895	25844	10657	4793	41294	32588	11539	4119	48246
Uttar Pradesh	46795	11396	5870	64061	65134	14265	7891	87290	55684	12945	4178	72807
West Bengal	42292	9635	4794	56721	39308	9449	5314	54671	43258	10217	4603	58078
Others	5883	1189	154	7226	1721	67	46	1834	2235	49	47	2331
Total	364310	104735	52500	521545	525465	134085	65775	725325	631475	170670	62260	864405

TABLE - 25(Contn.)

State/Union	2001-02				2002-03				2003-04p			
	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total
Andhra Pradesh	16951	7013	3605	27579	21143	7937	4479	33559	24211	8515	4508	37234
Bihar	1406	315	188	1909	1414	322	148	1884	1436	341	156	1933
Delhi	17942	2233	1443	21618	17716	2083	1284	21083	17182	2012	1208	20402
Goa & Daman	14808	10533	751	26092	18266	14004	687	32967	31711	7694	965	40370
Gujarat	39223	6959	1928	48110	39707	7868	1864	49239	37532	8994	1830	48356
Haryana	40311	7077	1442	48830	46392	6831	1413	54436	47022	8230	1383	56645
Karnataka	38402	12218	5150	55770	45844	14382	6010	66236	46247	15344	6269	67860
Kerala	100163	32114	6583	138860	126100	38438	6861	169399	124630	48921	7367	178918
Madhya Pradesh	31143	11966	3273	46382	31894	13370	3302	48566	31101	15577	3271	49949
Maharashtra	76316	29439	8670	116425	84685	33654	8825	127164	90365	37655	10209	138229
Orissa	23973	4702	531	29206	25511	5299	491	31301	31039	5913	373	37325
Pondicherry	3140	1080	84	4314	3264	1690	83	5037	3251	1729	99	5079
Punjab	83559	8485	17562	109606	85537	8935	18446	112518	84246	8573	18879	111698
Rajasthan	35891	8333	564	44788	41056	9003	1223	51282	42138	9318	1289	52745
Tamil Nadu	29598	11276	4393	45267	32754	14026	4869	51649	34654	14372	4875	53901
Uttar Pradesh	40088	9431	3347	52866	32897	7637	3126	43660	33541	7754	3247	44542
West Bengal	40894	11289	4312	56495	39004	11519	4353	54876	37110	11184	4475	52769
Others	2392	57	49	2498	2241	52	46	2339	2184	64	47	2295
Total	638210	174530	63875	876615	695425	194850	67320	957595	719600	210190	70460	1000250

TABLE - 26

## VALUE OF NATURAL RUBBER IMPORTED FROM VARIOUS COUNTRIES

('000 Rs)

Country	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05p
China	56016	--	2614	5745	4875	17	767	--	2214	294
Indonesia	70181	17928	119429	88911	53004	27960	181686	167159	330766	687207
Malaysia	1141140	325100	423509	199578	94027	90242	566686	277285	1082183	1492830
Myanmar	7837	--	12902	44422	20161	6926	35536	2091	10487	28284
Singapore	317905	82858	26832	84364	29499	18177	62030	35129	12608	28398
Sri Lanka	214590	216554	87125	41458	46717	13774	22253	17988	20402	142226
Thailand	906974	331804	524961	371530	247477	87944	502364	401966	632631	1560240
Vietnam	--	--	5051	14658	60467	30736	40077	64761	84650	102830
Others	69780	30128	14196	60956	16877	28057	33048	26595	45250	19212
Total	2784423	1004372	1216619	911662	573204	303833	1444647	993004	2201391	4062521

Source: "Monthly Statistics of Foreign Trade of India", published by DGCI &amp; S, Kolkata.

TABLE - 27

**VALUE OF SYNTHETIC AND RECLAIMED RUBBER\* IMPORTED FROM VARIOUS COUNTRIES**  
('000 Rs)

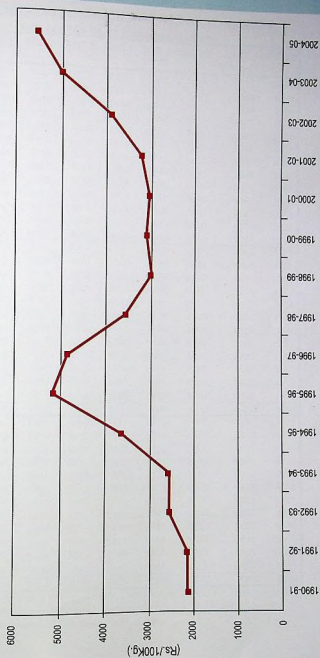
Country	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05 <sup>p</sup>
U.S.A	342214	379592	337586	240005	333813	368800	388599	382847	663312	911202
Canada	142302	149857	286420	387987	503563	564560	204214	111690	10217	13691
Germany(FR)	315298	356867	320315	309669	486823	381012	486159	414865	492521	911181
U. K	70279	125816	163121	145889	233476	236540	184450	306801	486365	577137
France	673397	944163	827480	575273	592979	592781	687409	727472	781383	1413591
Netherlands	23384	41510	36726	38746	113970	62789	173649	154233	216014	320964
Belgium	280710	522586	132436	36594	68443	72333	167915	198388	183873	228182
Japan	1387977	1365998	1268458	1373712	1174021	1509763	1095054	1067494	1297785	1261536
Others	1164116	1418305	1384464	2103575	2147994	2875793	3553343	4433567	6563038	8036986
<b>Total</b>	<b>4409677</b>	<b>5304694</b>	<b>4757006</b>	<b>5211430</b>	<b>5655082</b>	<b>6664371</b>	<b>6900892</b>	<b>7797157</b>	<b>10714518</b>	<b>13682470</b>

\* Including waste and scrap of unhardened rubber

Source: "Monthly Statistics of Foreign Trade of India", published by DGCI &amp; S, Kolkata.

CHART 8

# PRICE OF INDIGENOUS RSS4 GRADE RUBBER (At Kottayam Market)





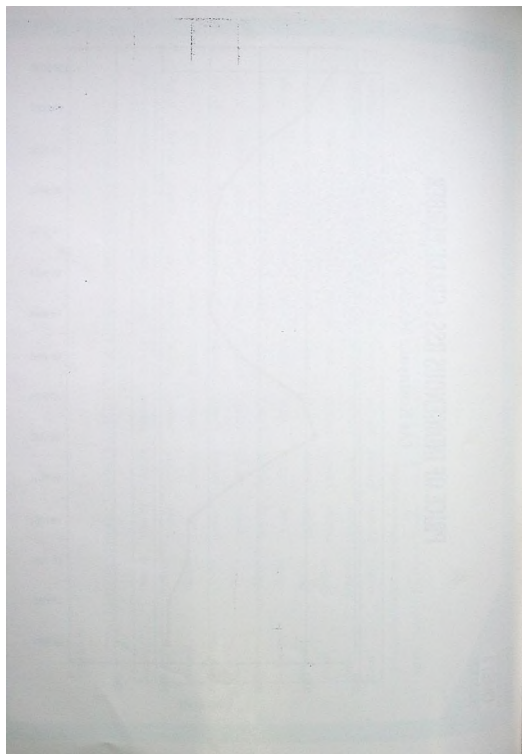


TABLE - 28

## PRICE OF DIFFERENT GRADES OF NATURAL RUBBER

(Rs. per 100 Kg. in Kottayam Market)

Month/ Year	RSS 1	RSS 2	RSS 3	RSS 4	RSS 5	EBR 2X	LATEX ISNR 20 (60% drc)
1990-91	2276	2225	2182	2129	2046	1934	4210
1991-92	2285	2235	2179	2141	2081	1741	3688
1992-93	2739	2676	2616	2550	2446	2121	4096
1993-94	2803	2706	2637	2569	2496	2253	4423
1994-95	3968	3845	3803	3638	3517	3093	5061
1995-96	5758	5397	5266	5204	5010	4726	7848
1996-97	5381	5188	5013	4901	4720	4421	6255
1997-98	4115	3927	3734	3580	3445	3245	5386
1998-99	3553	3362	3136	2994	2856	2648	4443
1999-2000	3538	3415	3272	3099	2955	2845	4091
2000-01	3513	3353	3205	3036	2909	2801	4560
2001-02	3558	3455	3343	3228	3081	2658	4371
2002-03	4283	4183	4083	3919	3693	3513	5293
April 2003	5467	5367	5267	5074	4943	4892	6002
May "	5175	5075	4975	4851	4749	4652	6317
June "	5176	5076	4976	4829	4719	4712	6317
July "	4815	4735	4635	4453	4286	4283	6203
August "	5024	4924	4824	4693	4490	4402	5853
September "	5152	5052	4952	4849	4655	4506	6004
October "	5494	5394	5294	5155	4978	4858	6571
November "	5716	5616	5516	5346	5148	5124	7164
December "	5659	5559	5459	5315	5092	5038	6873
January 2004	5510	5410	5310	5153	5014	4997	6840
February "	5587	5487	5387	5192	5087	4980	6752
March "	5944	5844	5744	5567	5436	5389	6882
<b>Average</b>	<b>5393</b>	<b>5295</b>	<b>5195</b>	<b>5040</b>	<b>4883</b>	<b>4819</b>	<b>6482</b>
April 2004	6163	6063	5963	5779	5673	5496	7190
May "	6232	6132	6032	5855	5749	5579	7403
June "	6678	6578	6478	6343	6113	5794	7918
July "	6911	6811	6711	6560	6271	5889	8175
August "	5982	5882	5782	5572	5358	5142	6999
September "	5592	5492	5392	5163	4976	4850	6429
October "	5616	5516	5416	5277	5101	5071	6681
November "	5571	5471	5371	5207	5043	5104	6822
December "	5519	5419	5319	5188	4995	4969	6875
January 2005	5668	5568	5468	5311	5152	5122	6840
February "	5524	5424	5324	5149	5008	4999	6805
March "	5795	5695	5595	5447	5338	5290	6752
<b>Average</b>	<b>5938</b>	<b>5838</b>	<b>5738</b>	<b>5571</b>	<b>5398</b>	<b>5275</b>	<b>7057</b>

Note: RMA 1X, RMA 1, RMA 2, RMA 3, RMA 4 and RMA 5 are changed to RSS 1X, RSS 1, RSS 2, RSS 3, RSS 4 and RSS 5 respectively vide Gazette Notification No. G.S.R.561(E) dated 5th July 1994, issued by Ministry of Commerce, Govt. of India.

TABLE - 29

## AVERAGE PRICE OF INDIGENOUS SYNTHETIC RUBBER

Year	(Rs. per 100 kg)			Poly butadiene (Ex-Baroda Price) 1203/1220
	Styrene butadiene (Ex-Bareilly price)			
	1500/1502	1712	1958	
1970-71	440	390	680	---
1975-76	779	720	1370	---
1980-81	1507	1317	2019	1224
1985-86	2350	2110	2736	1928
1990-91	4010	3700	4340	2903
1991-92	4899	4536	5177	3632
1992-93	5184	4824	5463	4000
1993-94	5181	4770	5389	4200
1994-95	4764	4269	5494	4200
1995-96	6212	5629	7105	6048
1996-97	5967	5375	7000	6071
1997-98	4734	4279	6623	5200
1998-99	5076	4569	6543	4525
1999-00	5400	4800	6400	4460
2000-01	---	---	---	5403
2001-02	---	---	---	4925
2002-03	---	---	---	5250
2003-04	---	---	---	6056
2004-05	---	---	---	7413

Note: The prices are exclusive of excise duty and other taxes.

No production of Styrene Butadiene rubber(1500/1502/1712/1958 grades) since July 1999.

Source: M/s. Synthetics & Chemicals Ltd. and Indian Petro Chemicals Corporation Ltd.

TABLE 30

**DISTRIBUTION OF MANUFACTURERS ACCORDING TO THEIR TOTAL CONSUMPTION OF RUBBER**  
(Consumption in tonnes)

Consumption Group	No. of Manufacturers	1970-71			No. of Manufacturers	1980-81			Total	
		CONSUMPTION				CONSUMPTION				
		Natural	Synthetic	Reclaimed		Natural	Synthetic	Reclaimed		
A	847	2168	445	173	2786	1696	4202	597	496	5295
B	280	5862	1210	415	7487	817	17016	2831	2116	21163
C	62	3407	1173	399	4979	159	9944	2901	2431	15276
D	68	9577	3270	1666	14513	112	17783	5834	3830	27447
E	13	6138	1802	1953	9883	18	9874	2731	1771	14178
F	11	60085	25260	9742	95087	24	115011	32156	16206	163373
Total	1281	87237	33160	14348	134745	2826	173630	47050	26850	247530

Consumption Group	No. of Manufacturers	1985-86			No. of Manufacturers	1990-91			Total	
		CONSUMPTION				CONSUMPTION				
		Natural	Synthetic	Reclaimed		Natural	Synthetic	Reclaimed		
A	1955	7951	1356	774	10081	2686	11023	3199	1625	15847
B	1318	25805	4108	3792	33705	1639	38447	11043	5724	55214
C	241	14356	4951	3030	22337	335	19062	5810	3503	28375
D	201	32821	13340	5157	51318	291	56490	18640	10570	85700
E	21	8263	4106	3203	15572	34	16892	4731	1840	25463
F	33	148244	42174	22259	212677	43	220396	61312	28238	310946
Total	3769	237440	70035	38215	345690	1257	21014	6098	2653	29765

Note : Regarding Consumption Group, see page 38.

TABLE - 30(Contn.)

Consumption Group	No. of Manufacturers	2000-01				2001-02			
		CONSUMPTION		Total	No. of Manufacturers	CONSUMPTION		Total	
A	1967	11250	2528	1110	14888	Natural	11494	2637	926
B	2039	62995	12827	5277	81099	Synthetic	65875	14797	4801
C	549	36812	10354	5024	52190	Reclaimed	40522	10900	5133
D	394	89520	30015	20481	140016	Total	88017	34027	18362
E	56	33831	4768	1095	39694		26317	3917	1607
F	57	397067	110178	29273	536518		405985	108252	32946
Total	5062	631475	170670	62260	864405		638210	174530	63875
									876615

Consumption Group	No. of Manufacturers	2002-03				2003-04p			
		CONSUMPTION		Total	No. of Manufacturers	CONSUMPTION		Total	
A	1894	11892	2652	736	15280	Natural	11935	2649	704
B	1939	70874	15167	4211	90252	Synthetic	69139	16124	4223
C	613	42040	11393	4668	58101	Reclaimed	41206	11191	4666
D	375	86124	37355	20089	143568	Total	84197	38155	20578
E	44	24684	3720	1636	30040		27731	4743	3079
F	66	459811	124563	35980	620354		485392	137328	37210
Total	4931	695425	194850	67320	957595		719600	210190	70460
									1000250

Note:- A: 10 tonnes and below, B: above 10 tonnes and upto and including 50, C: above 50 tonnes and upto and including 100, D: above 100 tonnes and upto and including 500, E: above 500 tonnes and upto and including 1000, F: above 1000 tonnes.

# NUMBER OF RUBBER GOODS MANUFACTURERS



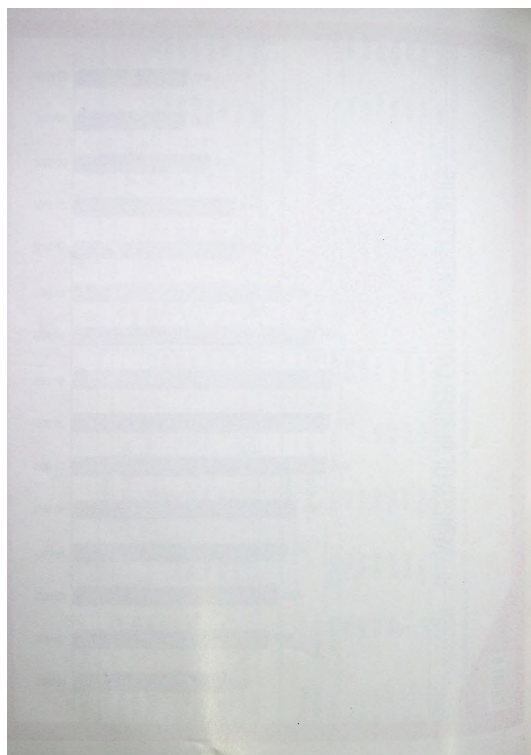


TABLE - 31

## NUMBER OF LICENSED MANUFACTURERS IN DIFFERENT STATES AT THE END OF EACH YEAR

State/ Union Territory	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Kerala	816	947	994	1021	1026	974	891	906	854	851	896
Maharashtra	569	613	627	629	617	623	612	624	578	563	542
Tamil Nadu	491	537	533	545	523	506	502	503	486	483	483
Punjab*	538	623	608	611	593	552	554	539	522	488	478
Uttar Pradesh	504	486	465	475	464	450	438	439	439	430	426
West Bengal	494	512	531	508	506	484	447	437	435	409	403
Gujarat	304	414	427	432	422	395	378	377	381	368	374
Haryana	252	305	298	313	315	311	289	307	324	324	332
Karnataka	221	263	252	258	249	249	229	219	203	194	189
Delhi	377	368	333	309	306	297	276	242	220	206	195
Andhra Pradesh	158	174	173	161	157	140	139	155	160	160	160
Rajasthan	66	105	105	98	93	92	87	99	111	109	111
Madhya Pradesh	85	96	92	91	91	91	88	86	82	77	61
Goa	24	19	20	31	24	28	25	31	33	33	26
Jharkhand**											25
Chattisgarh*											13
Orissa	19	17	17	16	16	16	14	13	13	12	10
Assam	3	4	4	6	6	5	6	7	8	9	9
Uttaranchal@											9
Himachal Pradesh	12	13	12	8	7	8	6	10	8	8	8
Bihar	47	37	38	34	33	33	34	28	27	27	3
Others	48	59	59	48	46	49	47	44	47	40	37
Total	5028	5572	5588	5595	5494	5303	5062	5066	4931	4791	4800

\* includes Chandigarh, \*\* upto 2003-04 included in Bihar, + in Madhya Pradesh and @ in Uttar Pradesh.



TABLE-32

## PRODUCTION OF TYRES

('000 numbers)

Year	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05p
Truck & Bus	5258	7696	8095	8058	7913	8969	8612	8474	9863	10821	11092
Tractor	1373	2325	2083	2074	2147	2400	2315	2255	2420	2405	2815
Car	2472	3324	3888	4263	4571	6054	6813	7481	8544	9959	11882
Jeep	596	881	1098	1342	1247	1283	1155	1247	1384	1440	1462
LCV	870	1177	1833	1903	1917	1980	2108	2352	2844	3271	3945
Motor Cycles	1961	3788	4457	5582	7277	9275	11196	12275	15655	16688	18127
Scooter	4466	9853	9545	9577	10975	10140	9385	8547	9875	9274	9982
Moped	555	833	795	400	234	516	119	135	185	168	124
A.D.V	469	673	561	528	593	589	511	488	456	295	197
OTR	32	36	30	37	37	36	38	46	51	74	69
Aero	15	7	0	0	0	0	0	0	0	0	0
Industrial	8	95	66	143	137	172	219	214	309	295	377
<b>Total</b>	<b>18075</b>	<b>30688</b>	<b>32471</b>	<b>33907</b>	<b>37048</b>	<b>41414</b>	<b>42471</b>	<b>43514</b>	<b>51586</b>	<b>54690</b>	<b>60082</b>

Source: Automotive Tyre Manufacturers' Association, New Delhi.

TABLE-33

## PRODUCTION OF TUBES

('000 numbers)

Year	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05p
Truck & Bus	4237	4923	5961	6503	6781	7382	7465	7291	7852	8851	9439
Tractor	826	995	953	1088	1221	1259	1108	925	824	906	1053
Car	2156	2604	3061	3518	3563	3949	4322	4277	4728	5331	5947
Jeep	430	653	811	1153	1133	1046	939	972	1036	1056	1040
LCV	693	969	1323	1422	1416	1614	1758	1835	2133	2633	3100
Motor Cycles	1412	2574	3290	5272	6507	7771	9772	11372	13978	15415	18671
Scooter	2215	4375	4526	5369	6903	5753	5531	5122	5750	5624	6439
Moped	398	561	830	208	224	564	223	151	176	270	347
A.D.V	377	259	250	234	295	268	259	216	231	187	140
OTR	16	16	4	8	9	12	9	13	15	19	26
Aero	1	1	0	0	0	0	0	0	0	0	0
Industrial	7	30	24	42	29	33	48	61	65	50	71
Total	12768	17960	20833	24817	28081	29651	31434	32235	36788	40342	46273

Source: Automotive Tyre Manufacturers' Association, New Delhi.

TABLE - 34

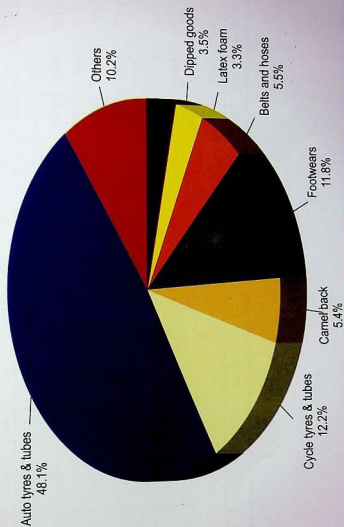
# PRODUCTION OF VEHICLES ('000 numbers)

Year	Commercial vehicles	Tractors	Cars	Jeeps/ multi-utility	Motor Cycles	Scooters	Three Wheelers	Mopeds	Total
1990-91	145	139	182	37	470	910	89	440	2412
1991-92	143	148	166	32	431	768	77	407	2172
1992-93	128	148	163	39	384	706	65	413	2047
1993-94	141	138	208	50	462	833	92	460	2384
1994-95	195	163	264	50	648	1031	129	517	2996
1995-96	259	191	348	68	809	1226	173	623	3698
1996-97	237	226	408	135	989	1323	222	669	4207
1997-98	161	256	401	135	1126	1280	235	667	4260
1998-99	136	254	390	113	1387	1315	209	672	4477
1999-00	175	257	574	124	1794	1259	206	725	5115
2000-01	152	248	518	126	2183	880	203	695	5005
2001-02	163	207	564	106	2906	938	213	465	5561
2002-03	203	157	606	115	3915	850	271	345	6461
2003-04	166	207	783	109	4355	935	356	333	7244
2004-05p	211	249	961	139	5194	986	374	347	8461

Source: Automotive Component Manufacturers' Association of India, New Delhi.

CHART 10

# TOTAL CONSUMPTION OF RUBBER ACCORDING TO END PRODUCTS-2003-04



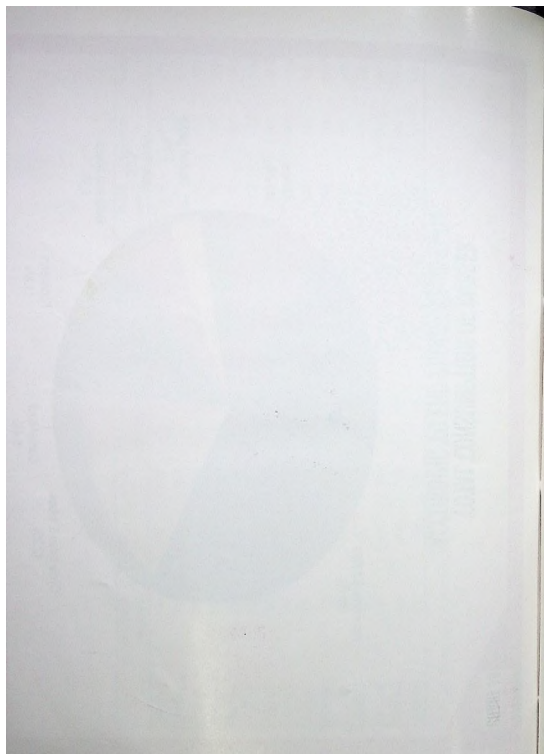


TABLE - 35

## CONSUMPTION OF ALL KINDS OF RUBBER ACCORDING TO END PRODUCTS

(Tonnes)

Products	1990-91				1995-96				2000-01			
	NR	SR	RR	Total	NR	SR	RR	Total	NR	SR	RR	Total
1. Auto tyres & tubes*	161578	52935	7607	221120	245654	74926	8859	329499	285275	94066	10210	389551
2. Cycle tyres & tubes	50160	10929	16344	77453	66358	11778	21519	99655	82592	15245	18283	116120
3. Camel back	25440	5414	3498	34352	32316	6503	4002	42821	38104	8815	3924	50843
4. Footwears	37574	19251	6819	63644	52003	23541	8513	84057	70547	31555	7832	109934
5. Belts and hoses	25583	7194	3610	36387	35838	7107	4519	47464	38220	7934	3922	50076
6. Latex foam	19598	--	--	19598	28633	--	--	28633	31620	--	--	31620
7. Cables and wires	1252	1154	590	2996	1494	1372	862	3728	1719	1684	824	4227
8. Battery boxes	1265	2038	8235	11538	1794	2387	10318	14489	1865	2691	9875	14231
9. Dipped goods	15578	--	--	15578	24847	--	--	24947	32081	--	--	32081
10. Others	26262	5620	5797	37879	36438	6471	7183	50092	49452	8680	7590	65722
Total	364310	104735	52500	521545	525465	134085	65775	725325	322470	98915	46703	468088

\* Includes Tractor, Aero, ADV and Off-the-road.

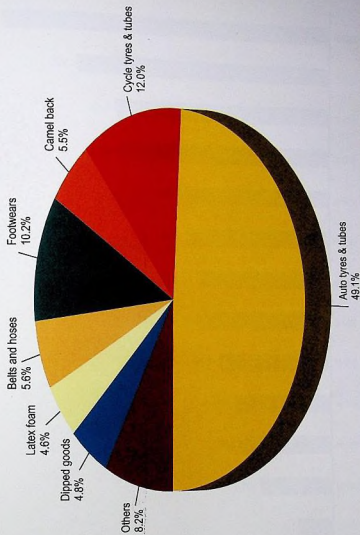
TABLE - 35(Contn.)

Products	2001-02				2002-03				2003-04p			
	NR	SR	RR	Total	NR	SR	RR	Total	NR	SR	RR	Total
1. Auto tyres & tubes*	284138	91150	9956	385242	329623	102834	12435	444892	353131	114299	14052	481482
2. Cycle tyres & tubes	84478	18065	19036	119577	86363	16159	20125	122647	86154	15799	20349	122301
3. Camel back	38446	9105	4014	51565	39084	10848	4119	54051	39449	10862	4132	54443
4. Footwears	71479	34201	7805	113485	73048	35801	7760	116609	73470	36053	8009	117532
5. Belts and hoses	39195	9170	4302	52667	39843	9468	4311	53622	40682	9941	4546	55149
6. Latex foam	32536	--	--	32536	33603	--	--	33603	33452	--	--	33452
7. Cables and wires	1741	1687	815	4243	1784	1694	820	4298	1756	1685	810	4251
8. Battery boxes	1901	2684	9681	14266	1873	2705	10091	14669	1852	2726	9826	14404
9. Dipped goods	32381	--	--	32381	34234	--	--	34234	34441	--	--	34441
10. Others	51919	10468	8266	70653	55970	15341	7659	78970	55233	19826	8736	82795
Total	638210	174530	63875	876615	695425	194850	67320	957595	719600	210190	70460	1000250

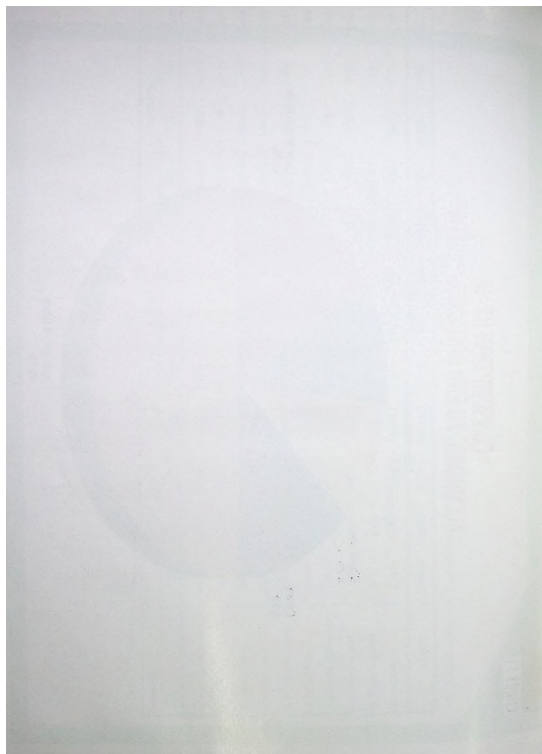
NR - Natural Rubber, SR - Synthetic Rubber &amp; RR - Reclaimed Rubber.

CHART 11

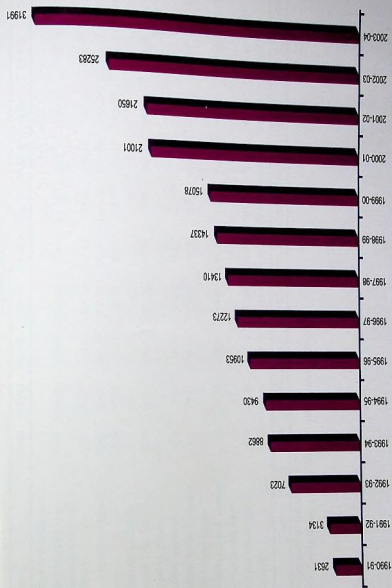
## CONSUMPTION OF NR ACCORDING TO END PRODUCTS-2003-04

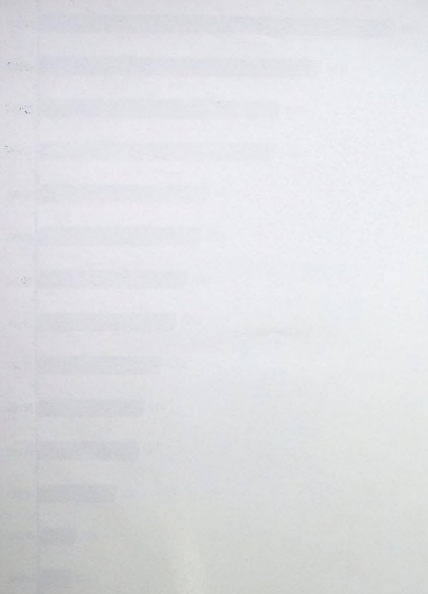






# VALUE OF RUBBER PRODUCTS EXPORTED (Million Rs.)





UNITED STATES DEPARTMENT OF AGRICULTURE

1917

TABLE - 36

**VALUE OF RUBBER PRODUCTS EXPORTED**  
(Value in million Rs.)

Products	1980-81	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p
1. Automobile tyres and tubes including tyre retreading materials	131.53	1826.00	7176.80	7944.20	9043.9	8109.69	8638.23	11647.53	11655.44	12430.43	14759.40
2. Beltings	42.80	241.00	369.42	578.75	539.87	684.99	602.46	988.27	1063.45	1393.96	2236.16
3. Cycle tyres and tubes	25.88	120.00	807.44	711.85	740.81	1082.85	1227.86	2100.14	2072.13	2673.34	2828.26
4. Hoses	8.23	77.00	71.18	88.47	90.71	168.10	145.20	228.69	402.66	541.65	765.50
5. Hygienic, medical & surgical articles including gloves	20.94	139.00	1288.41	1477.25	1338.78	1578.36	1366.77	1899.21	1489.96	2119.00	2185.39
6. Rubber footwear	3.66	7.50	84.30	90.90	103.2	--	--	--	--	--	--
7. Rubber-soled footwear with canvas upper	41.77	112.00	134.20	175.60	312.5	747.80*	611.95*	873.16*	1244.12*	1314.89*	3170.55*
8. Rubber coats & aprons for textile industry	3.94	11.00	52.28	59.83	83.37	92.60	103.48	154.29	158.49	211.47	238.13
9. Rubber sheetings	0.63	7.20	147.74	172.86	227.57	354.12	576.77	693.38	587.85	945.73	1322.91
10. Others	34.22	89.80	821.15	973.29	929.27	1518.39	1804.93	2446.63	2965.92	3662.65	4385.31
<b>Total</b>	<b>313.60</b>	<b>2630.50</b>	<b>10952.92</b>	<b>12273.00</b>	<b>13410.00</b>	<b>14336.90</b>	<b>15077.65</b>	<b>21001.30</b>	<b>21650.02</b>	<b>25283.12</b>	<b>31990.61</b>

\* - including rubber footwear.

Source : CAPEXIL, Kolkata and Council for Leather Exports, Chennai.

TABLE - 37

# QUANTITY AND VALUE OF RUBBER PRODUCTS IMPORTED

(Value in '000 Rs)

Products	Unit	1980-81		1990-91		2000-01	
		Quantity	Value	Quantity	Value	Quantity	Value
<b>1. TYRES</b>							
Aircraft	Nos.	1167	4149	646	18766	1765	27604
Cycle	"	--	--	--	--	25711	12855
Motor car, Truck & Bus	"	1864	2370	6879	24522	172203	195916
Tractor and other OTR	"	2318	6350	524	28941	4088	226650
Motor cycles & Scooters	"	1	1	--	--	15558	9333
Solid/Cushion tyres							
interchangeable tyre treads	Tonnes	612	1359	--	--	76	19811
Others	Nos.		5583		57248		110458
Total			19812		129477		602627
<b>2. TUBES</b>							
Aircraft	Nos.	4	16	7	14	2060	3197
Cycle	"	30	3	--	--	6492	277
Motor car, Truck and Bus	"	5	3	8	11	3903	2559
Tractor and other OTR	"	365	107	--	--	94	139
Motor cycle	"	--	--	--	--	945	93
Others	"	995	339	696	364	15418	7302
Total			468		389		13567
<b>3. FLAPS</b>	Nos.	5	2	85	11	24*	6196
<b>4. HYGIENIC &amp; PHARMACEUTICALS</b>							
Contraceptives	Million Nos.	0.5	636	74	53463	7*	7643
Others	Nos.	5521	507	14547	4606	107*	29716
<b>5. BELTING</b>							
Conveyor	Tonnes	212	10573	36	7566	326	179532
Others	"	178	19268	235	71283	1033	373318
<b>6. TEXTILE FABRICS COATED WITH RUBBER, LEATHER etc.</b>	Tonnes	62	8008	7	1344	--	--
<b>7. LATEX FOAM SPONGE</b>	"	23	206	4	472	123	13650
<b>8. HOSES</b>	"	124	10438	368	66115	384	134583
<b>9. EBONITE</b>	"	26	933	0.3	158	45	14783
<b>10. OTHER VULCANISED SHEETS</b>	"	57	2212	--	--	374	34769
<b>11. OTHER ARTICLES OF RUBBER</b>			96473		657356		4492777
<b>Grand Total</b>			169536		992240		5903161

\*: Tonnes

TABLE-37(Contn.)

Products	Unit	2001-02		2002-03		2003-04p	
		Quantity	Value	Quantity	Value	Quantity	Value
<b>1. TYRES</b>							
Aircraft	Nos.	7411	59334	4046	86505	2561	52914
Bicycles	"	51209	16393	211389	29271	42495	4167
Motor car, Truck & Bus	"	127339	166037	274370	358930	533633	635181
Tractor and other OTR	"	6783	278101	13776	279391	21532	34993
Motor cycles & Scooters	"	14809	10519	35773	23901	146728	102065
Solid/Cushion tyres							
Interchangeable tyre treads	Tonnes	80	16453	76	41291	72	20074
Others	Nos.		123318		169350		574551
<b>Total</b>			<b>670155</b>		<b>988639</b>		<b>1423945</b>
<b>2. TUBES</b>							
Aircraft	Nos.	20125	6924	2574	4505	404	1076
Bicycles	"	25541	1017	147642	3725	15140	309
Motor car, Truck and Bus	"	5874	4180	4068	1882	8379	14182
Tractor and other OTR	"	98	240	4	34	987	666
Motor cycle	"	4945	877	375	57	6162	1155
Others	"	3911	2482	12005	4215	21007	4137
<b>Total</b>			<b>15720</b>		<b>14418</b>		<b>21525</b>
<b>3. FLAPS</b>	Tonnes	64	6309	1	494	45	10593
<b>4. HYGIENIC &amp; PHARMACEUTICALS</b>							
Contraceptives	Tonnes	96	44016	156	70928	278	126909
Others	"	128	36552	77	26559	56	27588
<b>5. BELTING</b>							
Conveyor	"	1200	507536	1878	552229	559	254561
Others	"	921	386263	618	280264	1008	529498
<b>6. LATEX FOAM SPONGE</b>	"	111	18999	36	10891	122	8219
<b>7. HOSES</b>	"	411	171300	274	96752	Not available separately	
<b>8. EBONITE</b>	"	76	17049	170	25474	276	11249
<b>9. VULCANISED RUBBER</b>							
THREAD & CORD	"	443	70540	1301	157993	1147	102144
<b>10. OTHER ARTICLES OF RUBBER</b>			4514544		5478932		6742863
<b>Grand Total</b>			<b>6458983</b>		<b>7703573</b>		<b>9259094</b>

Source: "Monthly Statistics of Foreign Trade of India (Annual number), Published by DGCI&amp;S, Kolkata.

TABLE - 38

**NUMBER OF LICENSED DEALERS IN DIFFERENT STATES  
AT THE END OF EACH YEAR**

State/Territory	1980-81	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Kerala	6439	8304	8866	9453	9820	9281	9230	8417	8820	8737	9051										
Tamil Nadu	192	214	212	223	220	223	213	192	195	195	200										
Punjab*	123	217	218	214	188	182	176	153	157	156	147										
Tripura	12	79	107	138	136	125	120	105	113	119	130										
Karnataka	51	104	113	124	117	117	118	108	115	118	126										
Delhi	161	181	171	168	147	148	144	126	120	112	117										
Maharashtra	77	90	97	102	103	108	90	93	95	105	92										
West Bengal	91	115	103	103	90	85	86	75	76	71	75										
Uttar Pradesh	59	89	83	79	81	85	83	72	67	65	67										
Haryana	34	46	45	43	44	43	42	39	38	42	42										
Gujarat	21	28	28	34	34	36	36	36	42	40	41										
Assam	3	15	15	17	21	24	26	23	24	24	28										
Rajasthan	2	12	15	13	15	18	18	19	22	21	23										
Meghalaya	2	4	5	6	9	9	13	12	14	15	14										
Andhra Pradesh	0	4	2	3	1	2	3	4	6	6	7										
Pondicherry	0	1	2	2	2	2	2	3	3	4	3										
Nagaland	0	0	0	0	0	1	1	1	2	3	3										
Jharkhand**																					
Madhya Pradesh	3	14	15	12	8	7	5	5	4	3	3										
Bihar	3	4	6	6	6	7	6	5	4	3	1										
Goa, Daman & Diu	0	1	1	2	2	2	1	2	1	2	1										
Andaman & Nicobar	5	8	8	9	8	8	7	3	3	1	1										
Orissa	1	2	3	2	2	1	1	1	1	0	1										
Chattisgarh*																					
Jammu & Kashmir	1	1	1	1	1	1	1	0	0	0	1										
Himachal Pradesh	0	0	1	2	1	1	0	0	0	0	0										
Grand Total	7279	9532	10115	10756	10557	10512	10481	9492	9722	9842	10175										

\* Including Chandigarh, \*\* Upto 2003-04 included in Bihar, @ in Madhya Pradesh.

TABLE - 39

**NUMBER OF LICENSED DEALERS IN DIFFERENT DISTRICTS  
IN KERALA STATE AT THE END OF EACH YEAR**

District	1990-91	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05
Thiruvananthapuram	477	699	786	870	885	869	869	758	768	796	884
Kollam	771	984	1014	1110	1127	1135	1146	1062	1134	1256	1349
Pathanamthitta	857	1106	1233	1256	1203	1148	1175	1022	1069	1081	1132
Alappuzha	37	115	122	130	124	130	133	132	151	168	210
Kottayam	2033	2345	2487	2583	2543	2536	2523	2308	2304	2205	2206
Idukki	324	434	457	473	452	458	457	418	409	394	391
Ernakulam	1005	1188	1222	1295	1259	1252	1241	1124	1105	1093	1112
Thrissur	84	152	147	162	155	162	168	159	163	167	175
Palakkad	113	235	280	314	328	323	326	315	350	368	392
Malappuram	226	320	369	415	410	415	419	385	408	431	435
Kozhikode	164	197	214	227	217	215	220	188	191	190	182
Wynad	35	52	54	68	72	71	61	59	57	57	59
Kannur	262	403	391	423	428	454	449	395	423	445	464
Kasaragod	51	94	110	127	117	113	103	92	88	86	81
Total	6439	8304	8866	9453	9320	9281	9290	8417	8620	8737	9051



TABLE - 40

**AVERAGE DAILY EMPLOYMENT  
IN RUBBER PLANTATIONS**

Year	Numbers	Year	Numbers
1971	147902	1988	257742
1972	148040	1989	271601
1973	150909	1990	282674
1974	154214	1991	293108
1975	157754	1992	304618
1976	162661	1993	310800
1977	168475	1994	315900
1978	176925	1995	322300
1979	184320	1996	328900
1980	192578	1997	335450
1981	199775	1998	341320
1982	206790	1999	345200
1983	212613	2000	347700
1984	220434	2001	348700
1985	227780	2002	354300
1986	235351	2003	372070
1987	244477	2004p	378300

Source: Ministry of Food and Agriculture(Govt.of India),  
Govt. of Kerala and Rubber Board.

TABLE - 41

## COLLECTION OF EXCISE DUTY AND MISCELLANEOUS RECEIPTS OF THE RUBBER BOARD

Year	(Million Rs.)				Total
	Excise Duty on Rubber Collected	Sale of rubber from experiment stations	Sale of planting materials from nurseries	Others*	
1990-91	147.34	4.62	3.99	10.03	165.98
1991-92	168.15	5.73	3.65	12.18	189.71
1992-93	180.48	5.82	5.01	13.69	205.00
1993-94	198.18	8.40	3.41	14.01	224.00
1994-95	262.34	9.22	5.28	65.26	342.10
1995-96	435.77	10.74	6.74	87.00	540.25
1996-97	489.97	6.50	7.36	99.10	582.93
1997-98	482.03	5.74	8.04	113.50	609.31
1998-99	500.47	5.29	6.72	114.50	626.98
1999-00	755.63	12.30	6.70	126.63	901.26
2000-01	821.91	7.38	5.93	133.56	968.78
2001-02	811.37	7.81	5.27	66.20	890.65
2002-03	820.44	16.62	6.56	50.33	893.95
2003-04p	850.07	20.87	6.14	30.68	907.76
2004-05p	957.52	23.46	7.09	24.73	1012.80

\* Figures from 1994-95 include recovery of the cost of plantation inputs distributed through RPSs.

TABLE - 42

## SCHEME-WISE EXPENDITURE OF THE RUBBER BOARD

(Million Rs.)

Scheme	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03p	2003-04p
1. Rubber plantation development scheme (newplanting and replanting)	141.37	174.76	197.00	190.99	161.29	135.98	119.53
2. Infrastructure development in non-traditional areas	30.33	39.04	36.63	5.52	13.25	25.23	26.62
3. Extension training and supplies*	113.24	174.87	146.83	159.21	17.06	79.54	52.15
4. Maintenance of nurseries and distribution of planting materials	11.91	9.15	9.12	9.96	13.26	12.41	11.74
5. Processing, marketing and product development	81.80	78.17	171.87	177.29	100.87	115.96	109.19
6. Research	97.05	93.42	105.82	103.34	110.38	104.79	127.20
7. Special component plan and tribal subplan	32.32	26.78	36.64	42.80	19.50	14.99	12.25
8. Labour welfare	10.66	11.18	10.81	12.07	12.18	21.11	19.08
9. Construction of administrative building, residential building etc.	7.03	5.72	2.98	3.74	7.69	12.36	14.23
10. Operational expenses for schemes 1,3,4 & 7	128.87	119.37	139.07	101.02	206.48	348.91	430.24
11. General administration	42.71	50.54	50.73	53.63	55.39	58.05	62.02
Plan	599.26	709.69	799.17	757.78	616.33	840.76	900.53
Non plan	108.15	122.60	128.39	123.08	145.51	126.74	148.67
Grand Total	707.41	832.29	927.56	880.86	761.84	967.50	1049.20

Note : Totals include contribution to Pension Fund, advance to staff bearing interest and expenditure on official language implementation.

TABLE - 43

**PROGRESS IN DISTRIBUTION OF PLANTING MATERIALS**  
(Distributed directly by the Rubber Board)

Year	Tjr 1 Clonal Seeds	Tjr 1 Clonal Seedlings	Indigenous Poly Clonal Seedlings	PB/G, GG1 & GG2 Seedlings	Budded Stumps	Green budded Stumps	Budwood *	Poly bagged Plants
1970	3142000	210500	68900	74800	390900	****	2525	****
1980	****	****	29890	****	871532	****	12014	4887
1985	****	****	****	****	848443	171690	14291	12901
1986	****	****	****	****	1003694	278684	12725	53651
1987	****	****	****	****	833430	259439	31731	****
1988	****	****	****	****	513822	282287	22276	3509
1989	****	****	****	****	982035	7500	10394	3490
1990	****	****	****	****	1114918	107784	28100	7242
1991	****	****	****	****	629485	12000	22283	****
1992	****	****	****	****	792823	****	7265	****
1993	****	****	****	****	734886	165748	5962	****
1994	****	****	****	****	856158	465838	873	****
1995	****	****	****	****	549162	527290	7168	****
1996	****	****	****	****	645553	405121	23050	****
1997	****	****	****	****	900489	402377	15216	****
1998	****	****	****	****	736954	248238	1754	****
1999	****	****	****	****	557807	187895	311	****
2000	****	****	****	****	630566	208283	2391	****
2001	****	****	****	****	435122	104944	34521	****
2002	****	****	****	****	667524	166208	47262	****
2003p	****	****	****	****	374535	136598	40989	****
2004p	****	****	****	****	497938	192825	60784	****

In Metres

TABLE - 44

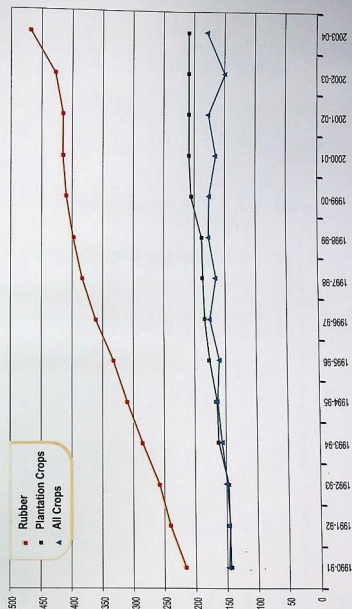
## RUBBER MARKETED BY THE CO-OPERATIVE SOCIETIES

Year	No. of Societies	Rubber Marketed (In Tonnes)	Year	No. of Societies	Rubber Marketed (In Tonnes)
1969-70	25	4284	1987-88	116	25781
1970-71	37	10651	1988-89	118	31246
1971-72	58	14510	1989-90	118	30413
1972-73	58	18513	1990-91	125	29285
1973-74	60	7045	1991-92	146	48665
1974-75	62	4350	1992-93	146	34260
1975-76	62	5545	1993-94	219	50719
1976-77	64	9866	1994-95	231	55934
1977-78	54	7878	1995-96	262	60000
1978-79	52	6875	1996-97	269	62000
1979-80	50	10200	1997-98	288	62900
1980-81	53	9336	1998-99	295	63480
1981-82	54	11067	1999-00	272	80494
1982-83	58	11077	2000-01	281	101923
1983-84	59	11984	2001-02	285	103611
1984-85	60	12960	2002-03	286	120438
1985-86	62	21036	2003-04p	293	106890
1986-87	116	24651	2004-05p	291	74230

Note: From 1986-87 onwards, include Rubber Producers' Societies.

CHART 13

# **MOVEMENT OF PRODUCTION INDICES** (BASE 1981-82=100)



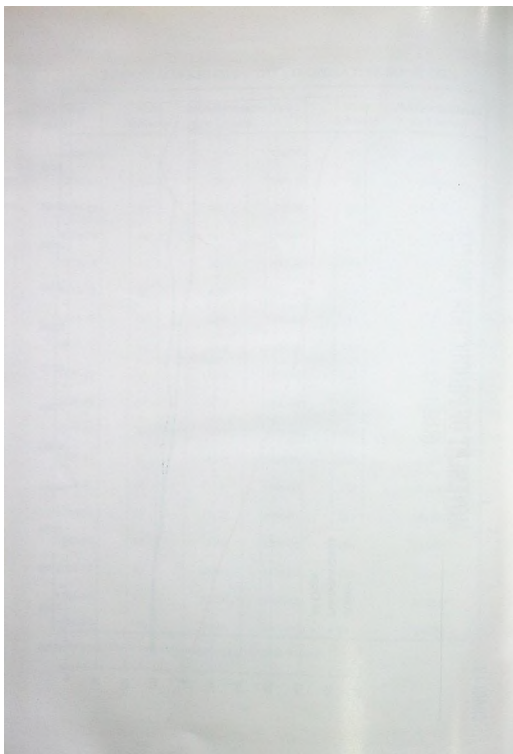


TABLE - 45

## INDEX NUMBERS OF AGRICULTURAL PRODUCTION

(Base: Triennium ending 1981-82=100)

Year	Rubber	Tea	Coffee	Plantation Crops	Rice	Wheat	Food Grains	Non-food Grains	All Crops
1970-71	60.8	74.7	79.1	73.2	84.4	67.7	87.9	82.6	85.9
1975-76	90.9	86.9	60.3	82.5	98.0	82.0	96.8	91.9	96.2
1980-81	101.1	101.6	85.1	76.0	107.8	103.2	104.9	97.1	102.1
1985-86	132.3	117.0	87.7	114.0	128.7	133.6	123.4	113.0	119.6
1990-91	217.6	132.3	122.3	144.9	149.4	156.6	143.7	156.3	148.4
1991-92	242.1	125.5	129.5	146.1	150.2	159.2	137.6	158.8	145.5
1992-93	259.8	125.5	116.2	146.5	146.5	162.5	144.3	163.7	151.5
1993-94	287.3	132.6	149.7	162.2	161.5	170.0	150.2	169.4	157.3
1994-95	311.5	134.4	129.6	163.6	164.5	186.8	155.9	180.9	165.2
1995-96	334.6	139.1	160.5	176.5	154.8	176.4	146.1	185.4	160.7
1996-97	362.7	144.5	148.2	182.4	164.4	197.0	160.9	200.9	175.7
1997-98	385.4	144.5	148.2	186.2	166.0	188.5	155.7	181.6	165.3
1998-99	399.4	144.5	148.2	188.6	173.0	202.5	165.2	199.4	177.9
1999-00	410.8	149.0	210.1	205.3	180.3	217.0	169.7	189.0	176.9
2000-01	416.2	151.3	216.8	209.0	170.9	198.0	158.4	178.2	165.7
2001-02	416.8	151.1	216.3	208.9	187.5	206.7	172.0	189.0	178.3
2002-03p	428.7	151.1	216.3	208.9	146.1	184.9	140.4	166.4	150.7
2003-04p	469.8	151.1	216.3	208.9	174.2	204.7	171.0	193.8	179.5

Source: Directorate of Economics &amp; Statistics, Department of Agriculture &amp; Cooperation.



TABLE - 46

# INDEX NUMBERS OF PRODUCTIVITY

(Base: Triennium ending 1981-82 = 100)

Year	Rubber	Tea	Coffee	Plantation Crops	Rice	Wheat	Food Grains	Non-food Grains	All Crops
1970-71	83.2	80.2	122.0	86.8	90.2	82.4	93.2	91.4	82.6
1975-76	98.5	90.9	73.4	90.5	99.6	89.0	98.0	96.3	96.7
1980-81	100.7	101.1	84.6	97.9	107.7	102.8	105.1	99.2	102.9
1985-86	115.3	111.2	76.2	102.8	125.3	129.0	122.3	108.4	117.6
1990-91	138.1	119.9	110.2	122.2	140.2	143.8	137.8	128.0	133.8
1991-92	145.1	113.6	129.7	123.7	141.1	150.9	136.5	123.9	131.1
1992-93	152.8	113.6	96.5	118.7	140.6	146.7	142.0	130.2	137.0
1993-94	165.0	119.7	107.0	127.4	152.1	150.0	146.5	132.8	140.7
1994-95	174.8	121.0	92.4	127.6	154.0	161.3	150.4	138.9	145.5
1995-96	182.6	122.4	114.4	136.1	144.8	156.5	143.1	135.8	139.9
1996-97	192.9	127.0	101.9	137.5	151.7	188.9	154.5	143.8	149.8
1997-98	198.8	127.0	101.2	139.2	153.1	156.7	148.4	132.3	141.4
1998-99	200.8	125.8	121.1	129.4	154.8	163.3	154.0	141.3	148.4
1999-00	202.3	115.3	129.1	138.4	160.0	175.2	159.8	136.4	149.6
2000-01	202.3	113.3	130.7	137.3	153.2	170.7	152.8	133.5	144.4
2001-02	202.3	112.7	129.5	136.7	167.3	174.1	163.9	138.9	153.1
2002-03p	204.4	112.7	129.5	136.7	145.4	165.1	146.1	127.1	137.6
2003-04p	213.5	112.7	129.5	136.7	165.1	180.9	163.9	146.3	156.4

Source : Directorate of Economics &amp; Statistics, Ministry of Agriculture.

TABLE - 47

# **GROSS DOMESTIC PRODUCT AND CONSUMER PRICE INDEX**

Year	Gross Domestic Product at factor cost (at 1993-94 prices) (Rs.Crores)	Annual growth rates (percent)	All India Consumer Price Index* (Base 1986-87=100)
1980-81	401128	7.2	67
1981-82	425073	6.0	75
1982-83	438079	3.1	79
1983-84	471742	7.7	88
1984-85	492077	4.3	88
1985-86	513990	4.5	93
1986-87	536257	4.3	97
1987-88	556778	3.8	107
1988-89	615098	10.5	120
1989-90	656331	6.7	127
1990-91	692871	5.6	136
1991-92	701863	1.3	163
1992-93	737792	5.1	183
1993-94	781345	5.9	189
1994-95	838031	7.3	212
1995-96	899563	7.3	237
1996-97	970082	7.8	262
1997-98	1016595	4.8	284
1998-99	1082748	6.5	293
1999-00	1148367	6.1	306
2000-01	1198592	4.4	300
2001-02	1267945	5.8	309
2002-03	1318362	4.0	324
2003-04p	1430548	8.5	332

\* For Agricultural Labourers.

Source: Economic Survey, Govt. of India.

TABLE - 46

# INDEX NUMBERS OF PRODUCTIVITY (Base: Triennium ending 1981-82 = 100)

Year	Rubber	Tea	Coffee	Plantation Crops	Rice	Wheat	Food Grains	Non-food Grains	All Crops
1970-71	83.2	80.2	122.0	86.8	90.2	82.4	93.2	91.4	92.6
1975-76	98.5	90.9	73.4	90.5	99.6	89.0	98.0	96.3	96.7
1980-81	100.7	101.1	84.6	97.9	107.7	102.8	105.1	99.2	102.9
1985-86	115.3	111.2	76.2	102.8	125.3	129.0	122.3	106.4	117.6
1990-91	138.1	119.9	110.2	122.2	140.2	143.8	137.8	128.0	133.8
1991-92	145.1	113.6	129.7	123.7	141.1	150.9	136.5	123.9	131.1
1992-93	152.8	113.6	96.5	118.7	140.6	146.7	142.0	130.2	137.0
1993-94	165.0	119.7	107.0	127.4	152.1	150.0	146.5	132.8	140.7
1994-95	174.8	121.0	92.4	127.6	154.0	161.3	150.4	138.9	145.5
1995-96	182.6	122.4	114.4	136.1	144.8	156.5	143.1	135.8	139.9
1996-97	192.9	127.0	101.9	137.5	151.7	168.9	154.5	143.8	149.8
1997-98	198.8	127.0	101.2	139.2	153.1	156.7	148.4	132.3	141.4
1998-99	200.6	125.8	121.1	129.4	154.8	163.3	154.0	141.3	148.4
1999-00	202.3	115.3	129.1	138.4	160.0	175.2	159.8	136.4	149.6
2000-01	202.3	113.3	130.7	137.3	153.2	170.7	152.8	133.5	144.4
2001-02	202.3	112.7	129.5	136.7	167.3	174.1	163.9	138.9	153.1
2002-03p	204.4	112.7	129.5	136.7	145.4	165.1	146.1	127.1	137.6
2003-04p	213.5	112.7	129.5	136.7	165.1	180.9	163.9	146.3	156.4

Source : Directorate of Economics &amp; Statistics, Ministry of Agriculture.

TABLE - 47

### GROSS DOMESTIC PRODUCT AND CONSUMER PRICE INDEX

Year	Gross Domestic Product at factor cost (at 1993-94 prices) (Rs.Crores)	Annual growth rates (percent)	All India Consumer Price Index* (Base 1986-87=100)
1980-81	401128	7.2	67
1981-82	425073	6.0	75
1982-83	438079	3.1	79
1983-84	471742	7.7	88
1984-85	492077	4.3	88
1985-86	513990	4.5	93
1986-87	536257	4.3	97
1987-88	556778	3.8	107
1988-89	615098	10.5	120
1989-90	656331	6.7	127
1990-91	692871	5.6	136
1991-92	701863	1.3	163
1992-93	737792	5.1	183
1993-94	781345	5.9	189
1994-95	838031	7.3	212
1995-96	899563	7.3	237
1996-97	970082	7.8	262
1997-98	1016595	4.8	284
1998-99	1082748	6.5	293
1999-00	1148367	6.1	306
2000-01	1198592	4.4	300
2001-02	1267945	5.8	309
2002-03	1318362	4.0	324
2003-04p	1430548	8.5	332

\* For Agricultural Labourers.

Source: Economic Survey, Govt. of India.

TABLE - 48

# INDEX NUMBERS OF WHOLESALE PRICES OF SELECTED COMMODITIES (Base: 1993-94=100)

Commodities	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04p	2004-05p
All Commodities	121.6	127.2	132.8	140.7	145.3	155.7	161.3	166.8	175.9	187.3
Food - grains	122.5	137.6	139.3	152.0	176.4	173.8	172.4	174.3	178.3	177.5
Fruits & Vegetables	123.5	148.9	142.8	185.4	154.5	160.0	188.9	190.2	195.6	204.2
Condiments & Spices	153.4	176.6	176.9	220.2	226.4	202.5	188.1	194.0	205.0	188.1
Oil seeds	128.6	130.6	128.3	148.5	133.4	129.3	137.6	160.2	177.8	180.8
Minerals	94.7	107.2	99.8	110.9	110.4	113.5	119.3	118.8	121.6	255.1
Electricity	127.8	133.5	151.8	157.2	168.9	200.0	224.8	238.0	248.8	253.0
Edible Oils	116.9	115.1	113.5	139.1	122.1	103.3	112.9	138.0	157.9	156.4
Tea & Coffee processing	114.6	116.7	160.4	164.1	185.5	189.1	177.2	143.7	177.2	185.6
Textiles	129.4	118.7	115.5	114.4	115.0	119.9	119.3	122.2	131.6	135.7
Leather & Leather Products	119.2	121.2	128.8	133.2	154.6	149.6	141.0	130.1	146.9	155.7
Natural Rubber	202.6	190.8	199.4	116.5	120.6	118.2	125.7	152.5	196.2	216.9
Rubber & Plastic Products	123.0	124.2	124.5	123.7	123.6	125.5	126.0	132.6	135.0	134.5
Tyres & Tubes	129.6	132.9	131.7	133.1	131.7	130.7	127.2	132.0	130.0	129.5
Plastic Products	112.2	110.7	113.1	109.3	110.9	112.1	117.9	125.7	132.2	135.0
Other Rubber & Plastic Products	133.7	132.6	132.8	132.8	132.8	161.0	163.7	177.0	189.6	178.7
Chemicals & Chemical Products	126.8	131.1	137.1	145.8	155.2	164.4	169.0	173.9	177.2	181.7
Fertilisers & Pesticides	128.1	128.2	134.2	136.0	140.3	153.8	157.7	163.9	164.7	166.3
Motor Vehicles	116.7	124.5	129.3	133.4	137.6	146.1	149.2	149.4	149.9	157.4

Source: "Index number of wholesale prices in India", Published by the Office of Economic Advisor, Ministry of Industry, Govt. of India.

# WORLD RUBBER STATISTICS

TABLE - 49

## AREA UNDER RUBBER IN MAIN PRODUCING COUNTRIES

(In Thousand Hectares)

Territory	End of	Holdings	Estates	Total
Indonesia	2004	2769	493	3262
Thailand	2004	1883	200	2083
Malaysia	2004	1156	126	1282
China	2004	NA	NA	600
India	2004	512	66	578
Vietnam	2004	262	189	451
Brazil	2004	NA	NA	117
Sri Lanka	2003	83	46	129
Nigeria	1999	90	60	150
Liberia	1999	49	60	109
Myanmar	1995	59	46	105
Cote d'Ivoire	1999	26	70	96
Philippines	1999	NA	NA	92
Cameroon	2002	7	41	48
D.R. of Congo(a)	1999	10	25	35

Note : Estate areas refer to holdings of 40 ha. and over except for India where it refers to holdings of over 20 ha.

NA : Not available.

Source : Rubber Statistical Bulletin of the International Rubber Study Group.

TABLE-50

**PRODUCTION OF NATURAL RUBBER IN MAIN PRODUCING COUNTRIES**  
(In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003p	2004p
Thailand	1275	1805	1970	2031	2076	2155	2346	2320	2615	2878	2959
Indonesia	1282	1455	1527	1505	1714	1599	1501	1607	1630	1792	2066
Malaysia	1291	1069	1063	971	898	769	928	882	890	986	1169
India	<b>324</b>	<b>500</b>	<b>540</b>	<b>580</b>	<b>591</b>	<b>620</b>	<b>629</b>	<b>632</b>	<b>641</b>	<b>708</b>	<b>743</b>
China	264	424	430	444	450	460	445	464	468	480	486
Vietnam	103	155	220	212	218	262	293	331	372	380	415
Liberia	19	13	30	67	75	100	105	107	109	110	117
Brazil	31	44	53	61	70	87	88	88	89	94	98
Sri Lanka	113	108	113	106	96	97	88	86	91	92	94
Philippines	61	60	62	66	68	65	67	71	76	84	80
Comodia	35	38	39	40	39	46	42	42	45	46	47
Nigeria	152	116	64	65	65	58	55	45	42	38	40
Others*	190	235	309	322	472	552	143	575	272	304	306
<b>World</b>	<b>5120</b>	<b>6040</b>	<b>6440</b>	<b>6470</b>	<b>6820</b>	<b>6870</b>	<b>6730</b>	<b>7250</b>	<b>7340</b>	<b>7990</b>	<b>8620</b>

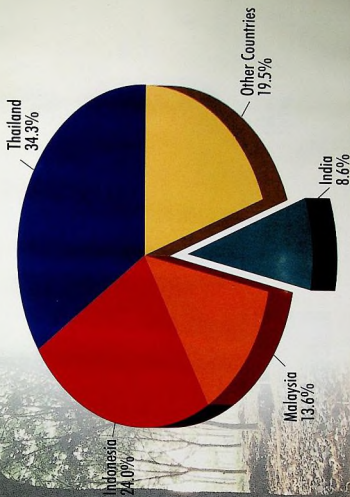
Italics: estimated, \*: countries not reported separately.

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.



CHART 14

## SHARE OF INDIA IN WORLD PRODUCTION OF NR-2004





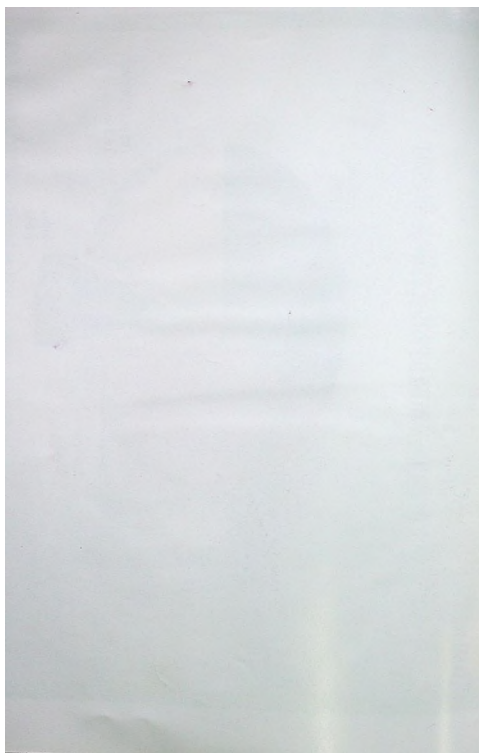
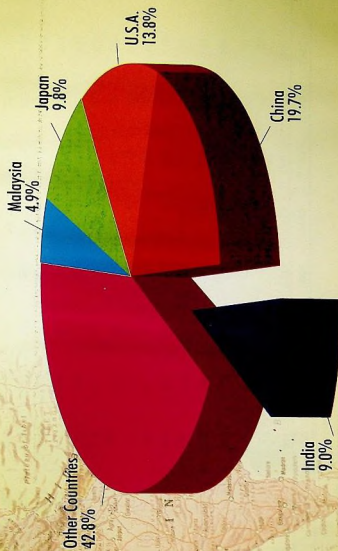


CHART 15

## SHARE OF INDIA IN WORLD CONSUMPTION OF NR-2004



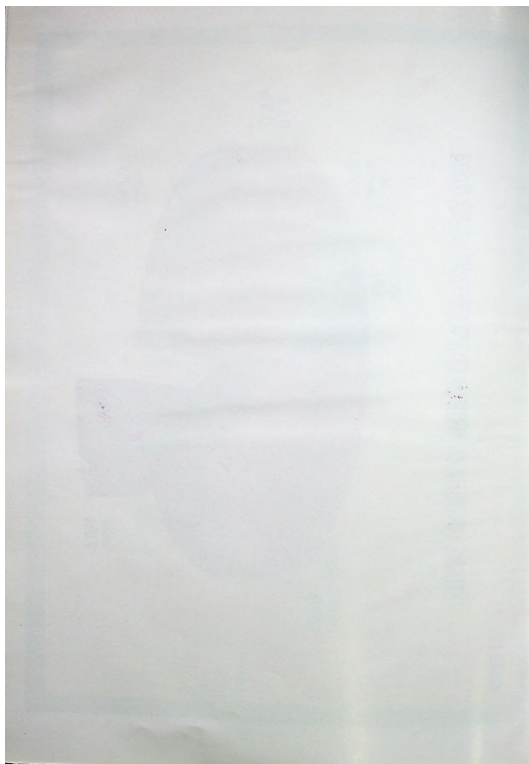


TABLE-51

# CONSUMPTION OF NATURAL RUBBER IN MAIN CONSUMING COUNTRIES (In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003p	2004p
China	600	780	810	910	839	852	1080	1215	1310	1485	1630
U.S.A.	808	1004	1002	1044	1157	1116	1195	974	1111	1079	1144
Japan	677	692	715	713	707	734	752	729	749	764	815
India	358	516	558	572	580	619	638	631	680	716	745
Malaysia	184	327	357	327	334	344	364	401	408	421	403
Rep. of Korea	255	300	300	302	283	333	332	332	326	333	352
France	179	176	182	192	223	240	270	282	231	300	230
Thailand	99	153	174	182	186	227	243	253	278	299	302
Brazil	124	155	161	161	185	184	227	216	233	256	282
Germany	209	212	193	214	247	226	250	246	247	251	220
Spain	119	128	130	147	157	153	163	176	181	188	192
Indonesia	108	133	142	141	97	116	139	142	145	156	196
Canada	84	121	119	131	148	140	148	131	155	146	146
Italy	130	102	100	117	146	134	139	137	134	138	142
Taiwan	105	103	96	101	97	105	92	90	107	115	120
U.K.	136	118	111	119	139	127	123	98	76	91	87
Russian Fed.	150	13	18	9	6	15	36	36	19	32	29
Others*	885	917	944	1078	1029	975	1129	1101	1150	1160	1245
<b>World</b>	<b>5210</b>	<b>5950</b>	<b>6110</b>	<b>6460</b>	<b>6560</b>	<b>6640</b>	<b>7320</b>	<b>7190</b>	<b>7540</b>	<b>7950</b>	<b>8280</b>

Italics: estimated, \*: countries not reported separately.

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.

TABLE-52

**COUNTRY-WISE IMPORT OF NATURAL RUBBER**  
(In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004p
China	340	297	490	362	411	402	820	943	915	1150	1208
U.S.A	820	1026	1014	1044	1177	1116	1192	972	1110	1077	1144
Japan	663	696	724	730	678	755	802	713	772	792	801
Rep. of Korea	254	289	299	299	282	332	331	330	323	333	352
France	178	176	182	192	223	240	270	282	231	300	230
Germany	209	212	193	212	247	226	250	245	243	260	220
Spain	119	130	130	148	159	161	171	184	182	189	191
Brazil	81	106	107	100	115	98	139	128	144	162	184
Canada	84	121	118	133	148	141	150	132	154	146	146
Italy	132	121	119	132	148	131	136	135	136	138	142
Taiwan	105	103	96	101	97	105	92	90	106	115	120
Turkey	47	79	78	87	84	69	86	79	95	109	118
U.K.	136	120	111	120	139	127	123	98	76	91	86
Mexico	68	55	69	80	82	82	90	67	67	73	74
India	60	50	16	27	29	20	11	35	26	46	63
Argentina	31	29	32	38	42	22	27	23	26	34	36
Others*	736	612	614	620	656	620	743	749	716	786	808
<b>World</b>	<b>4063</b>	<b>4222</b>	<b>4392</b>	<b>4425</b>	<b>4717</b>	<b>4647</b>	<b>5433</b>	<b>5205</b>	<b>5322</b>	<b>5801</b>	<b>5921</b>

Italics: estimated, \*: countries not reported separately.

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.

TABLE 53

## COUNTRY-WISE EXPORT OF NATURAL RUBBER

(In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003p	2004p
Thailand	1151	1636	1763	1837	1839	1886	2166	2042	2354	2573	2627
Indonesia	1077	1324	1434	1404	1641	1495	1380	1497	1502	1661	1875
Malaysia	1186	778	710	587	425	436	196	162	430	510	680
Vietnam	76	138	195	194	191	218	254	283	325	325	351
Liberia	19	13	30	67	75	100	105	107	109	104	112
Sri Lanka	87	68	72	61	41	43	33	32	36	35	41
Nigeria	121	99	49	53	47	38	36	30	24	20	24
Cambodia	28	30	31	32	33	39	35	35	36	15	11
India	0	1	2	1	2	3	13	4	44	63	71
World*	3990	4320	4590	4235	4690	4640	4970	5110	5230	5690	6240

Italics : Estimated

\* Including other countries not reported separately.

Source : Rubber Statistical Bulletin of the International Rubber Study Group.

TABLE - 54

**PRODUCTION OF SYNTHETIC RUBBER IN MAIN PRODUCING COUNTRIES**  
(In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002	2002p	2004p
U.S.A.	2115	2530	2486	2589	2600	2354	2395	2064	2150	2192	2257
Japan	1426	1498	1520	1592	1520	1577	1592	1466	1522	1577	1616
China	316	493	553	600	589	754	836	1052	1133	1272	1478
Russian Federation	2277 <sup>⊗</sup>	837	775	725	821	737	837	919	919	1070	1112
Germany	525	480	548	555	619	720	849	828	869	888	905
France	522	618	583	595	606	592	669	672	681	718	776
Korea Rep	227	384	516	540	547	655	678	663	685	700	710
Taiwan	175	365	376	457	472	495	465	480	523	529	545
Brazil	256	286	310	347	310	363	373	342	384	405	390
U.K.	274	320	280	294	262	283	286	333	337	327	328
Italy	300	310	303	295	290	279	285	274	250	244	235
Mexico	133	142	147	154	173	171	187	173	182	180	183
Netherlands	244	178	198	194	164	185	200	188	176	176	180
Canada	195	170	220	216	191	195	187	143	150	152	152
Belgium	125	95	105	100	95	100	104	104	104	104	108
Poland	103	105	106	100	94	97	102	83	87	90	95
India	58	67	63	75	68	66	60	69	78	86	95
Others*	620	602	651	652	651	717	725	637	670	740	785
<b>World</b>	<b>9990</b>	<b>9480</b>	<b>9740</b>	<b>10080</b>	<b>9880</b>	<b>10340</b>	<b>10830</b>	<b>10490</b>	<b>10900</b>	<b>11450</b>	<b>11950</b>

Italics: estimated, \*: countries not reported separately.

⊗: refer to the former U.S.S.R.

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.

TABLE - 55

# CONSUMPTION OF SYNTHETIC RUBBER IN MAIN CONSUMING COUNTRIES (In Thousand Tonnes)

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002	2003p	2004p
<i>China</i>	340	760	870	995	1000	1285	1455	1575	1750	2155	2438
<i>U.S.A.</i>	1821	2172	2187	2323	2354	2218	2190	1840	1895	1926	1904
<i>Japan</i>	1133	1085	1125	1163	1116	1133	1138	1085	1096	1111	1146
<i>Russian Federation</i>	2078@	424	438	450	358	436	539	575	551	619	585
<i>Germany</i>	511	426	478	501	582	565	632	613	612	615	625
<i>France</i>	351	430	436	416	451	434	482	465	489	483	420
<i>Brazil</i>	284	280	290	310	300	309	320	334	344	350	388
<i>Rep. Of Korea</i>	279	370	440	406	277	394	382	373	365	342	339
<i>Spain</i>	186	195	200	222	229	242	269	262	292	294	303
<i>Taiwan</i>	195	284	274	292	272	263	282	232	284	293	296
<i>Italy</i>	310	293	291	290	275	287	291	275	261	251	255
<i>Canada</i>	185	198	242	259	238	239	233	228	228	225	227
<i>India</i>	97	133	142	158	155	164	171	172	192	204	223
<i>U.K.</i>	223	226	230	235	177	189	188	167	210	204	207
<i>Mexico</i>	114	132	160	182	165	169	160	142	132	140	141
<i>Others*</i>	1573	1862	1767	1818	1921	1873	2008	1912	2059	2158	2253
<b>World</b>	<b>9660</b>	<b>8270</b>	<b>9570</b>	<b>10000</b>	<b>9870</b>	<b>10200</b>	<b>10720</b>	<b>10250</b>	<b>10740</b>	<b>11380</b>	<b>11750</b>

Italics: estimated, \*, countries not reported separately.

@ : refer to the former U.S.S.R.

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.



TABLE 56

**PRODUCTION, CONSUMPTION AND STOCK OF NATURAL AND SYNTHETIC RUBBER**  
(In Thousand Tonnes)

Year	NATURAL RUBBER			Stock at the end of the year	SYNTHETIC RUBBER			Stock at the end of the year
	Production	Consumption	Excess(+) or deficiency(-) compared with consumption		Production	Consumption	Excess(+) or deficiency(-) compared with consumption	
1990	5120	5210	-90	1520	9890	9660	+230	2120
1991	5160	5060	+100	1600	9270	9220	+50	1940
1992	5450	5320	+130	1730	9300	9360	-60	1900
1993	5310	5430	-120	1600	8600	8630	-30	1870
1994	5720	5650	+70	1700	8670	8820	+50	1910
1995	6070	5950	+120	1780	9480	9270	+210	2120
1996	6440	6110	+330	2130	9740	9570	+170	2340
1997	6470	6460	+10	2250	10080	10000	+80	2400
1998	6920	6960	+260	2560	9680	9870	+10	2450
1999	6870	6640	+230	2760	10340	10200	+140	2700
2000	6730	7320	-590	2170	10630	10720	+110	2810
2001	7250	7190	+60	2230	10490	10250	+240	3050
2002	7340	7540	-200	2030	10900	10740	+160	3210
2003p	7990	7950	+40	2070	11450	11380	+90	3300
2004p	8620	8280	+340	2410	11950	11750	+200	3500

Source: "Rubber Statistical Bulletin" of the International Rubber Study Group.

CHART 16

# WORLD CONSUMPTION OF NR AND SR





TABLE- 57

**ESTIMATED PERCAPITA CONSUMPTION OF NATURAL AND SYNTHETIC RUBBER**  
(Kilograms)

Country	1980	1985	1990	1995	2000	2001	2002	2003p	2004p
U.S.A.	11.26	11.43	10.52	12.07	11.84	9.88	10.46	10.22	10.37
Canada	11.65	10.65	10.12	10.77	12.46	11.52	12.24	11.61	11.65
Germany	9.77	10.05	9.07	7.69	10.84	10.61	10.42	10.56	10.29
France	9.84	8.48	9.34	10.32	13.42	12.61	11.76	13.22	10.84
U.K.	6.77	5.77	6.24	6.06	5.45	4.59	4.75	5.00	4.97
Japan	11.23	12.31	14.65	14.19	14.89	14.27	14.48	14.80	15.32
Australia	6.87	5.19	5.39	6.37	4.91	3.75	3.50	3.68	3.68
Italy	7.44	7.05	7.63	6.93	7.39	7.11	6.80	6.82	6.96
Brazil	2.68	2.52	2.76	2.98	3.34	3.13	3.32	3.40	3.76
China	0.50	0.62	0.83	1.25	1.99	2.17	2.39	2.79	3.12
India	0.32	0.40	0.55	0.70	0.81	0.79	0.83	0.86	0.91
World	2.82	2.77	2.82	2.61	2.99	2.84	2.95	3.07	3.18

Source: Up to 1995, 'Key Rubber Indicators' published by IRSG, London. From 1996 onwards, compiled by the Rubber Board.

TABLE - 58

**WORLD PRICE OF NATURAL RUBBER**  
(Average price for RSS 3 per 100 Kg.)

Year	<u>LONDON</u> (C.I.F)		<u>KUALA LUMPUR</u> (F.O.B)		<u>KOTTAYAM</u>
	Pound Sterling	Equivalent Rate in Rs.	Malaysian Ringgit	Equivalent Rate in Rs.	(INDIA) Rs.
1980	63.76	1170	298.7	1083	1154
1981	53.38	938	230.8	872	1423
1982	49.37	819	181.3	739	1473
1983	73.00	1120	238.8	1042	1672
1984	73.26	1110	214.7	1040	1689
1985	61.15	980	179.8	890	1694
1986	57.09	1057	202.1	988	1670
1987	62.23	1321	236.4	1217	1766
1988	69.25	1717	301.2	1600	1811
1989	61.06	1623	247.0	1482	2040
1990	51.24	1604	220.6	1425	2147
1991	50.00	2000	216.9	1796	2128
1992	52.72	2655	212.6	2457	2463
1993	58.92	2786	207.5	2538	2546
1994	78.49	3779	288.6	3455	3107
1995	104.62	5375	390.4	5030	5059
1996	92.96	5143	342.9	4764	5122
1997	63.65	3776	273.8	3614	3988
1998	45.76	3127	273.1	2884	3013
1999	42.71	2989	231.5	2644	2997
2000	48.60	3296	252.5	3007	3125
2001	44.90	3041	218.5	2732	3109
2002	74.56	5421	286.8	3696	3621
2003	102.70	7808	4450*	4985	4814
2004	110.60	9143	5170*	5833	5571

Note: In the case of India, price refers to RSS 4 grade rubber at Kottayam market.

\*: Bangkok price(Baht)

Source : "Rubber Statistical Bulletin" of the International Rubber Study Group.

CHART 17

## PRICE OF NATURAL RUBBER IN INDIAN & INTERNATIONAL MARKETS

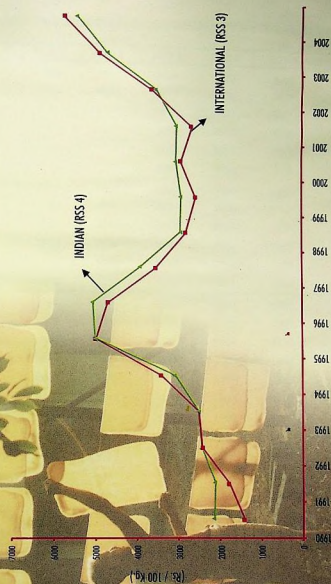




TABLE - 59

**INTERNATIONAL PRICE OF DIFFERENT GRADES OF NATURAL RUBBER**  
(F.O.B.price)

Month		RSS 1	RSS 2	RSS 3	RSS 4	(Rs. per 100 Kg.)	
						RSS 5	SMR/STR 20
1992-93		2688	2641	2608	2553	2484	2519
1993-94		2583	2537	2510	2405	2339	2533
1994-95		4217	4187	4171	4081	4021	4220
1995-96		5107	5029	5016	4916	4849	4895
1996-97		4609	4516	4509	4381	4311	4325
1997-98		3308	3227	3221	3094	3033	3250
1998-99		2961	2893	2885	2770	2716	2626
1999-2000		2790	2721	2704	2583	2525	2761
2000-01		3089	2976	2958	2831	2770	2798
2001-02		2880	2812	2793	2660	2597	2623
2002-03		4143	3934	3915	3779	3715	4055
2003-04		5408	5340	5278	5244	5193	4985
April	2004	6102	6035	5973	5940	5890	5678
May	"	6421	6352	6289	6255	6203	5739
June	"	6365	6298	6237	6203	6153	5556
July	"	6058	5991	5929	5895	5844	5405
August	"	5900	5833	5772	5738	5688	5425
September	"	5838	5771	5710	5677	5627	5386
October	"	5928	5861	5800	5767	5717	5656
November	"	5744	5677	5615	5582	5532	5587
December	"	5377	5311	5248	5214	5164	5217
January	2005	5310	5242	5180	5146	5095	5262
February	"	5655	5587	5524	5490	5439	5522
March	"	5865	5797	5734	5701	5650	5452
Average		5880	5813	5751	5717	5667	5490

Price upto March'03 is of Kuala Lumpur market and from April '03 Bangkok market.