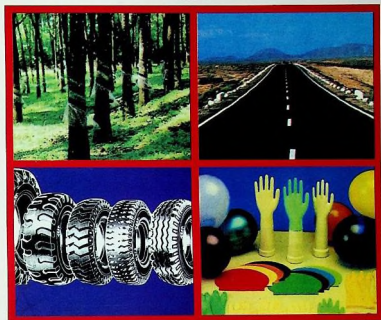






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Indian Rubber Statistics

Volume 24

2000

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VOLUME 24

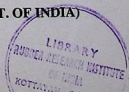
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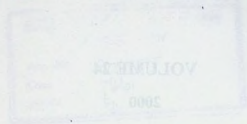
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THE STATISTICS & PLANNING DEPARTMENT

THE RUBBER BOARD
(MINISTRY OF COMMERCE & INDUSTRY, GOVT. OF INDIA)
KOTTAYAM 686 002, INDIA



INDIAN RUBBER STATISTICS



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THE RUBBER BOARD
(MINISTRY OF COMMERCE & INDUSTRY, GOVT. OF
KOTTAYAM - 686 001, INDIA)

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

Collection of statistics is one of the basic objectives of the Rubber Board. Indian Rubber Statistics is a comprehensive annual publication based on the statistics collected by the Rubber Board. The statistics published in the volume, 24th in the series, include those compiled from the Board's own records as well as those collected from various secondary sources.

The co-operation extended by the producers, traders and processors of natural, synthetic and reclaimed rubber, manufacturers of rubber goods, various organisations such as ATMA, ACMA, CAPEXIL, etc. and the various government departments is gratefully acknowledged. Suggestions for further improvement will be appreciated.

Those interested in the current statistics of production, consumption, import, stock, and the prices may refer to the "Rubber Statistical News" published by the Board every month.

I would record my appreciation for the good work done by the officers of the Statistics & Planning Department for the compilation and timely release of the publication.

Kottayam,
20/03/2001.

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

IN RETROSPECT

1. Area and Production of Natural Rubber

The decelerating phase entered upon by the Indian rubber production sector during 1997-98 and 1998-99 continued during the year 1999-2000 also. Annual growth in production of natural rubber (NR), which was 8.4 percent in 1996-97, 6.3 percent in 1997-98 and 3.6 percent in 1998-99, declined further to 2.8 percent in 1999-2000. The production during the year was 622,265 tonnes as against 605,045 tonnes in 1998-99. The continued decline in production growth can be ascribed to the lower rate of increase in productivity. The average productivity of 1576 kg realized during the year depicts a nominal increase of 13 kg over the previous year as against the increases of 81 kg in 1996-97, 46 kg in 1997-98 and 14 kg in 1998-99. Relatively lower level of adoption of short-term yield enhancing measures by the dominant small holders on account of the continuing low price in the market and the unfavourable climatic situation are the key factors which depressed the growth in productivity.

2. Consumption and Stock Position of Natural Rubber

After two years of sluggish performance, the rubber goods manufacturing industry in the country, especially the automobile tyre manufacturing sector, achieved some recovery during the first quarter of 1999-2000 and the trend continued throughout the year. 6.2 percent growth in consumption demand of NR attained during the year was against 1.8 percent during 1997-98 and 3.4 percent during 1998-99. The rubber goods manufacturing industry consumed 628,110 tonnes of NR during 1999-2000 as against 591,545 tonnes during 1998-99. The tyre manufacturing industry presented a better performance during the year by attaining a robust 10.6 percent growth as against the marginal growth of 2.2 percent of the general rubber goods sector. However, the resilience exhibited by the demand sector during 1999-2000 was not strong enough to absorb the entire surplus, which had accumulated in the country during the previous two years. The estimated total inventory of 192,570 tonnes held in the country at the end of March 2000 was in excess by about 88,000 tonnes even after accounting for the quantity normally required for two-months' consumption in the country.

3. Production and Consumption of Synthetic Rubber

The production of synthetic rubber (SR), which registered a decline of 6.1 percent during 1998-99, declined further by 10.8 percent during 1999-2000. One of the major producers of synthetic rubber in the country stopped production of SBR in July'99. The production of SR during 1999-2000 was 60,293 tonnes as against 67,590 tonnes during 1998-99.

The production and consumption of NR and SR during the last four years were as follows:

Production and Consumption of NR and SR

Year	Production ('000 tonnes)				Consumption ('000 tonnes)			
	NR	SR	Total	Growth (%)	NR	SR	Total	Growth (%)
1996-97	549.4	64.6	614.0	6.8	561.8	142.8	704.6	6.8
1997-98	583.8	72.0	655.8	6.8	571.8	160.9	732.7	4.0
1998-99	605.0	67.6	672.6	2.6	591.5	156.4	747.9	2.1
1999-00	622.3	60.3	682.6	1.5	628.1	167.2	795.3	6.3

The manufacturing industry in the country consumed 167,220 tonnes of SR during 1999-2000, registering an increase of 6.9 percent over the previous year. The relative use of NR and SR in the total elastomer consumption remained unchanged at 79:21 during the year.

4. Price of NR and Market Interventions

As stated earlier, the slump in the demand growth of NR during 1997-98 and 1998-99 generated surplus of NR in the market, which in turn resulted in declining rubber prices. Owing to the situation of surplus stock of NR in the domestic market coupled with the absence of any signs of price recovery in the international market, Indian NR market continued to remain depressed during 1999-00 and 2000-01. The average price of RSS 4 grade of rubber in Kottayam market during 1999-00 was Rs.3099 per 100 kg as against Rs.2994 during 1998-99. The average price during the first eleven months of 2000-01 was Rs.3069. It is worth noting that with the exception of November and December 1999, February, November and December 2000, January and February 2001, the Indian price remained higher than the international price, as can be seen from the following table.

Average Market Price of NR

(Rs./100 kg)

Month	India (Price of RSS 4 in Kolayam market)	World (FOB price of RSS 3 in Kuala Lumpur market)
April 1999	2818	2434
May "	3190	2474
June "	3408	2518
July "	3360	2381
August "	3318	2364
September "	2951	2513
October "	2958	2750
November "	3036	3133
December "	2865	2902
January 2000	3099	2762
February "	3133	3180
March "	3049	3032
Average (1999-2000)	3099	2704
April 2000	3199	3073
May "	3356	3085
June "	3248	3004
July "	3253	2857
August "	3198	3056
September "	3122	2975
October "	3061	3028
November "	2909	2991
December "	2867	3037
January 2001	2853	2921
February "	2694	2800

The benchmark prices of NR, revised by the Government of India to Rs.3405 for RSS 4 and Rs.3355 for RSS 5 (per 100 kg.), on 28 September 1998, remained unchanged during 1999-00. As reported in Volume 23 of Indian Rubber Statistics, the Government of India, in its efforts to support domestic NR price, intervened in the domestic market through STC from August'97 onwards and procured about 9,600 tonnes. This was the first phase of procurement operation. As a second phase of market intervention, STC procured 19,831 tonnes during the period September 1998 to October 1999 and sold the entire quantity to the exporters of rubber goods in lieu of import against Advance Licence, which remained, banned with effect from 20 February 1999. STC again intervened in the market in March 2000 and as the third phase of procurement operation a quantity of 20,000 tonnes was lifted from the

market and sold the entire quantity to Advance Licence holders. The quantity authorized to be procured under the fourth phase, which is currently being undertaken by STC, is 20,000 tonnes.

5. Import and Export of NR

Under the Export-Import policy of the Govt. of India for the period 1997-2002, NR is included in the "negative list" of restricted items of imports. It can be imported against a licence issued by the Government or in accordance with a Public Notice issued in this regard. Besides, NR can be imported free of duty using Quantity Based Advanced Licence (QBAL), which is an incentive entitled to exporters of rubber goods. The EXIM Policy for 1997-2002 also allows import of NR by using Special Import Licence (SIL) given to big export houses. But, being in the Negative List, NR cannot be imported by using Duty Entitlement Pass Book (DEPB) Scheme, introduced in the EXIM Policy for the period 1997-2002. However, from SAARC countries NR can be imported free of licence from August 1998 onwards. Export of NR is freely allowed since April 1992.

Since there was excess availability of NR in the domestic market, after 1995-96 the Government of India did not allow the import of NR under the Public Notification scheme. Besides, the Government of India has discontinued issuing licence to import using SIL with effect from 2000-01. The SIL holders will be permitted to import till 31 March 2001. As the import under SIL attracted import duty apart from a premium charged by the export house concerned, no considerable import has taken place during the period prior to its discontinuation. But the manufacturers imported NR using Advance Licence against their commitments of the export of manufactured goods. In this context, as a measure to enhance the demand for indigenous rubber, the Government of India imposed ban on the import of NR against Advance Licence with effect from 20 February 1999. As an alternative arrangement, exporters of rubber goods have been allowed to purchase NR from the State Trading Corporation of India Ltd. (STC) at the international price from their locally procured stock. Since Advance licence has a normal validity for 18 months after issue and can be extended twice for duration of six-months each, import of NR continued after the imposition of ban. As regards export of NR, India has not been able to make headway. The following table gives the figures of import and export of NR since 1996-97.

**Import and Export of NR
(Tonnes)**

Year	Import	Export
1996-97	19,770	1,598
1997-98	32,070	1,415
1998-99	29,534	1,840
1999-00	16,436	5,989

6. Global Scenario

The total global production of NR increased marginally to 67.5 lakh tonnes in 1999 from 66.8 lakh tonnes during 1998. As may be seen from the following table, the first four major producers were Thailand, Indonesia, Malaysia and India, sharing 33.6 percent, 23.6 percent, 11.4 percent and 9.2 percent respectively, of the global output. The global consumption of NR was 67.0 lakh tonnes during 1999 as against 65.5 lakh tonnes during 1998 recording an increase of 2.3 percent. U.S.A., China, Japan and India were the first four major consuming countries and they respectively accounted for 16.3 percent, 12.7 percent, 11.0 percent and 9.2 percent of the global demand of NR.

able,

Country-wise Production and Consumption of NR during 1999

Production			Consumption		
Country	('000 tonnes)	Percentage to world total	Country	('000 tonnes)	Percentage to world total
Thailand	2266	33.6	U.S.A.	1093	16.3
Indonesia	1596	23.6	China	852	12.7
Malaysia	769	11.4	Japan	734	11.0
India	620	9.2	India	619	9.2
China	460	6.8	Malaysia	344	5.1
Vietnam	230	3.4	Korea	331	4.9
World	6750	100.0	World	6700	100.0

Termination of the Third International Natural Rubber Agreement (INRA 1995) prior to its scheduled term was a major development in the international scenario of NR. India was not a signatory to the agreement, which was administered by the International Natural Rubber Organization (INRO). The Daily Market Indicator Price (DIMP) used for the operation of buffer stock scheme existing under the INRA 1995 was calculated on the basis of Malaysian and Singapore currencies. As a result, despite a considerable price decline in Dollar terms, most of the times the DIMP was within the neutral zone and the producing countries of the INRO became increasingly unhappy with the effectiveness of the Agreement. As a result, in October 1998, Malaysia gave notice of its withdrawal from the INRO. Malaysia's decision was followed by a similar move from Thailand in February 1999 and Sri Lanka in June 1999. Consequently, the INRO council met in September 1999 and decided to terminate the agreement, which came into force with effect from 13 October 1999. The buffer stock of about 138,000 tonnes of NR held with the INRO at the time of termination was decided to be released into the market in a phased manner during 2000 and 2001, so that the whole stock would be cleared by the end of June 2001. According to the report of the Association of Natural Rubber Producing Countries released in March 2001, about 70 percent of INRO's stocks had been sold.

Kottayam,
20/03/2001.

E. Lalitha Kumari
Joint Director
Statistics & Planning Department

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 (budgrafts) 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.
Ungraded rubber	Small holders, particularly those in the lower area group generally sell their smoked sheet rubber to dealers without grading and packing. This rubber consists of mostly RSS 3,4 and 5 and offgrades. Grading and packing is done usually at the medium/big dealer's level.
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.
1999-00	1999-2000.

CONTENTS

Table	Subject	Page
I	Area under Rubber and Average Yield per hectare	
	1 Area Newplanted and Replanted with Rubber since 1956-57	1
	2 Statewise Area under Rubber at the end of each year	2
	3 Districtwise Area under Rubber	5
	4 Classification of Holdings and Estates according to Size	9
	5 Area under High Yielding and Unselected Materials	11
	6 Tappable area, Production and Average Yield per ha	12
II	Production, Import, Export, Consumption and Stock of Rubber	
	a) Natural Rubber	
	7 Monthwise Production of Natural Rubber	14
	8 Gradewise Production of Natural Rubber	15
	9 Production of Holdings and Estates	16
	10 Districtwise Production of Natural Rubber	17
	11 Monthwise Import of Natural Rubber	18
	12 Gradewise Import of Natural Rubber	19
	13 Gradewise Export of Natural Rubber	20
	14 Countrywise Export of Natural Rubber	21
	15 Monthwise Consumption of Natural Rubber	22
	16 Gradewise Consumption of Natural Rubber	23
	17 Stock of Natural Rubber	24
	b) Synthetic Rubber	
	18 Monthwise Production of Synthetic Rubber	27
	19 Gradewise Production of Synthetic Rubber	28
	20 Gradewise Consumption of Synthetic Rubber	29
	21 Stock of Synthetic Rubber	30
	c) Reclaimed Rubber	
	22 Production, Import, Consumption & Export of Reclaimed Rubber	31

d) Natural, Synthetic & Reclaimed Rubber

23 Production, Import, Export & Consumption of NR and SR	32
24 Total Stock of Natural and Synthetic Rubber	34
25 Production, Import, Consumption and Stock of NR and SR	35
26 Statewise Consumption of All Kinds of Rubber	37
27 Value of Rubber Imported	41

III Price of Rubber

28 Price of Ungraded Natural Rubber	43
29 Price of Different Grades of Natural Rubber	44
30 Price of Indigenous Synthetic Rubber	48

IV Manufacturers, Rubber Products, Exports, Dealers, etc.

31 Distribution of Manufacturers according to their Total Consumption	49
32 Number of Manufacturers in Different States	52
33 Production of Tyres	53
34 Production of Tubes	54
35 Production of Vehicles	55
36 Registered Motor Vehicles in India	56
37 Consumption of Rubber according to End Products	57
38 Value of Rubber Products Exported	60
39 Quantity and Value of Rubber Products Imported	61
40 Statewise Distribution of Dealers	66
41 Districtwise Distribution of Dealers in Kerala State	67
42 Distribution of Dealers According to their Purchase	68
43 Average Daily Employment in Rubber Plantations	69
44 Collection of Excise Duty and Receipts of the Rubber Board	70
45 Schemewise Expenditure of the Rubber Board	71
46 Progress in Distribution of Planting Materials	73
47 Rubber Marketed by the Co-operative Societies	75
48 Index Numbers of Agricultural Production	76
49 Index Numbers of Productivity	77
50 Gross Domestic Product & Consumer Price Index	77
51 Index Numbers of Wholesale Prices of Selected Commodities	77

World Rubber Statistics

52 Area under Rubber in Main Producing Countries	80
53 Production of Natural Rubber in Main Producing Countries	81
54 Consumption of Natural Rubber in Main Consuming Countries	82
55 Production of Synthetic Rubber in Main Producing Countries	83
56 Consumption of Synthetic Rubber in Main Consuming Countries	84
57 Production, Consumption & Stock of Natural and Synthetic Rubber	85
58 Per Capita Consumption of Natural and Synthetic Rubber	86
59 World Price of Natural Rubber	87

CHARTS AND DIAGRAMS

1 Area under Holdings and Estates	
2 Average Yield per hectare	
3 Gradewise Production of NR - 1999-2000	
4 Production of Holdings and Estates	
5 Gradewise Consumption of NR - 1999-2000	
6 Production and Consumption of NR	
7 Price of Indigenous RSS 4 grade Rubber	
8 Number of Rubber Goods Manufacturers	
9 Total Consumption of Rubber according to End Products - 1999-2000	
10 Value of Rubber Products Exported	
11 Movement of Production Indices	
12 Share of India in World Production of NR 1999	
13 Share of India in World Consumption of NR 1999	
14 World Consumption of NR and SR	
15 Price of Natural Rubber in Indian and International Markets	

TABLE - 1

AREA NEWPLANTED AND REPLANTED WITH RUBBER SINCE 1956-57

(Hectares)

Year	Newplanted	Replanted	Total	Year	Newplanted	Replanted	Total
1956-57	12030	737	12767	1978-79	8450	4050	12500
1957-58	14278	1394	15672	1979-80	12300	4065	16365
1958-59	12605	1874	14479	1980-81	19308	5476	24784
1959-60	9963	1641	11604	1981-82	18100	4188	22288
1960-61	12104	1385	13489	1982-83	19884	4963	24847
1961-62	14485	2446	16931	1983-84	18805	5641	24446
1962-63	13222	2499	15721	1984-85	22365	5217	27582
1963-64	6551	2309	8860	1985-86	21222	26981	28103
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	6855	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	1998-99p	8800	6000	14800
1977-78	4770	3645	8415	1999-00p	6000	6000	12000

TABLE - 2

STATEWISE AREA UNDER RUBBER AT THE END OF EACH YEAR

(Hectares)

State	1950-51	51-52	52-53	53-54	54-55	55-56	56-57	57-58	58-59	59-60	60-61
Kerala	70365	70950	71806	72966	76037	80537	91301	104621	116113	124907	135809
Tamilnadu	3025	3126	3205	3351	3594	3917	4289	4646	5092	5715	6256
Karnataka	1415	1415	1435	1455	1476	1503	1578	1589	1594	1619	1659
A&N	110	110	110	110	110	110	171	171	171	171	181
Total	74915	75601	76556	77892	81217	86067	97339	111027	122970	132412	143905
Annual growth rate	1.20	0.92	1.26	1.73	4.28	5.97	13.10	14.06	10.76	7.68	8.68

State	1961-62	62-63	63-64	64-65	65-66	66-67	67-68	68-69	69-70	70-71	71-72
Kerala	149015	161110	166542	171209	174561	179194	184647	189125	193763	198424	200474
Tamilnadu	6923	7509	7988	8599	9283	9873	10366	10852	11287	11712	12077
Karnataka	1747	1935	2121	2321	2633	2916	3289	4009	5285	6525	6767
A&N	195	195	195	195	236	277	290	368	468	537	663
Total	157880	170749	176846	182324	186713	192260	198592	204414	210803	217198	219981
Annual growth rate	9.71	8.15	3.57	3.10	2.41	2.97	3.29	2.93	3.13	3.03	1.28

A&N : Andaman & Nicobar Islands

TABLE - 2 (Contd.)

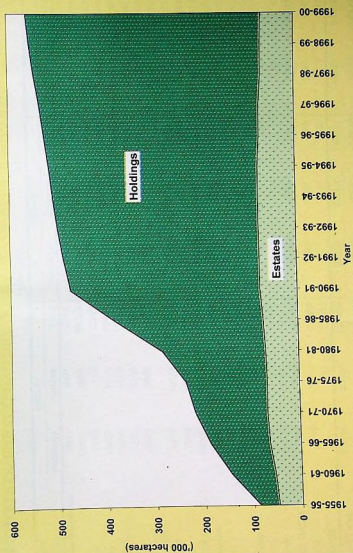
State	1972-73	73-74	74-75	75-76	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	84-85	85-86
Kerala	202761	205595	208430	211808	215797	219506	226239	236324	253784	269821	287334	303774	323303	341506
Tamilnadu	12677	13108	13439	13776	14049	14345	14585	15260	15513	15740	16020	16240	16450	16567
Karnataka	7059	7470	8090	8585	8736	8790	8815	8861	9004	9227	9502	9973	10710	11392
Tripura	103	223	307	417	574	878	1306	1989	2746	3590	4578	5338	6545	7742
Assam	.	.	102	116	134	152	283	419	568	789	840	929	1053	1242
Meghalaya	.	.	106	141	191	291	628	778	923	1033	1108	1190	1266	1410
Mizoram							100	216	216	291	331	331	335	355
Manipur							900	900	900	900	902	908	912	919
A&N	740	768	787	810	850	900	900	900	900	900	902	908	912	919
Goa	125	153	191	223	262	338	423	464	512	563	604	640	711	773
Nagaland												105	205	355
Maharashtra												.	.	.
Total	223465	227317	231452	235876	240593	245200	253279	265211	284166	301924	321495	339848	361960	382831
Annual growth rate	1.58	1.72	1.82	1.91	2.00	1.91	3.29	4.71	7.15	6.25	6.48	5.71	6.51	5.77

TABLE - 2 (Contd.)

State	1986-87	87-88	88-89	89-90	90-91	91-92	92-93	93-94	94-95	95-96	96-97	97-98	98-99	99-00p
Kerala	356421	370079	383562	396467	407821	419174	428864	437138	443300	449000	455566	465282	469924	472900
Tamilnadu	16765	16917	17037	17100	17150	17210	17260	17300	17430	17948	18209	18470	18631	18659
Karnataka	11913	12353	12809	13200	13995	14386	14650	14850	14955	16307	17324	18475	19323	19565
Tripura	10085	12670	14326	16620	17320	17860	18250	18670	19252	20761	21982	22582	24120	25380
Assam	1968	3178	5144	8350	9380	9740	9885	10006	10122	9943	10243	10060	10805	11644
Meghalaya	1831	2509	3229	3350	3466	4058	4350	4521	4550	4105	4345	3757	3958	3683
Nagaland	525	675	910	1110	1300	1371	1370	1400	1450	1523	980	1287	1416	1615
Mizoram	620	690	810	900	950	960	960	972	979	913	934	628	671	543
Manipur	440	515	665	895	1203	1215	1215	1220	1253	1400	1214	1308	1401	1610
A&N	930	943	948	950	960	964	970	969	960	954	976	989	931	931
Goa	831	851	861	923	970	978	998	935	936	828	922	924	939	839
Orissa	*	*	146	191	245	270	270	289	219	242	277	149	358	408
Maharashtra	*	132	137	143	145	150	154	150	91	101	143	305	163	180
Arunachal Pradesh	*	*	*	*	*	*	*	*	50	50	69	128	161	244
West Bengal	*	*	*	*	*	*	*	*	*	*	62	115	158	285
Andhra Pradesh				142	178	178	178	*	*	*	*	75	82	98
Total	402329	421512	440584	460341	475083	488514	499374	508420	515547	524075	533246	544534	553041	558584
Annual growth rate	5.09	4.77	4.52	4.48	3.20	2.83	2.22	1.81	1.40	1.65	1.75	2.12	1.56	1.00

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

Chart 1
Area under holdings and estates



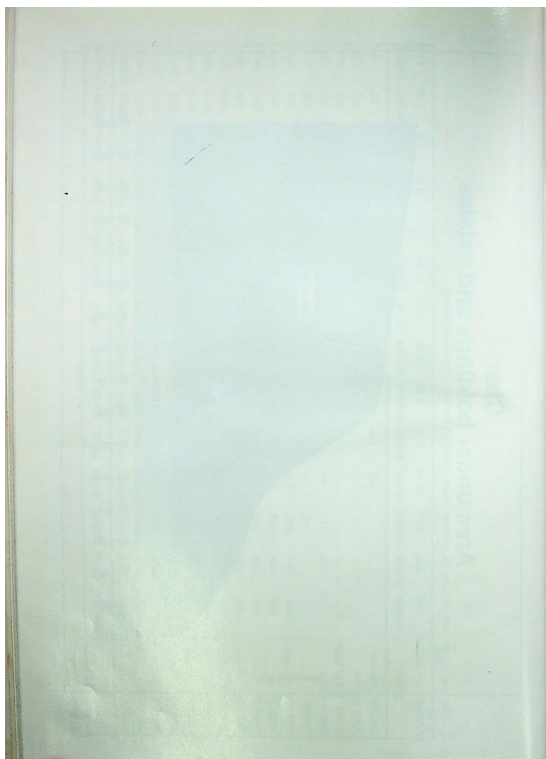


TABLE - 3
DISTRICT/STATE/ UNION TERRITORY WISE AREA OF RUBBER UNDER HOLDINGS & ESTATES
(Hectares)

District/ State/ Union Territory	1960-61			1965-66			1970-71		
	Holdings	Estates	Total	Holdings	Estates	Total	Holdings	Estates	Total
1. Thiruvananthapuram	3657	1097	4754	4974	1310	6284	6223	1414	7637
2. Kollam	13335	9888	23223	17347	12152	29499	21116	12338	33454
3. Alappuzha	2195	115	2310	3082	60	3142	3802	60	3862
4. Kottayam	35576	9818	45494	43566	10490	54056	49313	9874	59187
5. Ernakulam	13495	4568	18063	18648	6255	24903	21807	6260	28067
6. Thrissur	1537	5389	6926	2842	5886	8728	3236	5847	9083
7. Palakkad	2471	3640	6111	4441	4810	9251	3237	1906	5143
8. Malappuram	8417	10325	18742	12282	11620	23912	9830	7573	17503
9. Kozhikode	7583	2803	10386	11483	3303	14786	14864	7113	16396
10. Kannur	8366	47443	135809	118675	55886	174561	142611	55813	19092
KERALA									199424
11. Kanyakumari	1736	3878	5614	4036	4605	8641	5117	5922	11039
12. Madurai	11	142	153	10	143	153	10	143	153
13. Nilgiris	84	161	245	84	161	245	86	161	247
14. Coimbatore		221	221		221	221		221	221
15. Salem	23		23	23		23	23		23
16. Tirunelveli							29		29
TAMIL NADU	1854	4402	6256	4153	5130	9283	5265	6447	11712
KARNATAKA	155	1504	1659	182	2451	2633	1924	4601	6525
A & N ISLANDS		181	181		236	236		537	537
Grand Total	90375	53530	143905	123010	63703	186713	148900	67396	217198
Percentage share	62.80	37.20	100.00	65.88	34.12	100.00	68.97	31.03	100.00

TABLE - 3 (Contn.)

District/ State/ Union Territory	1975-76			1980-81			1985-86		
	Holdings	Estates	Total	Holdings	Estates	Total	Holdings	Estates	Total
1. Thiruvananthapuram	6934	1116	8050	9208	971	10179	17089	964	18053
2. Kollam	21873	12439	34312	28533	12548	41081	30343	9596	27891
3. Pathanamthitta	3854	60	3914	4222	51	4273	3236	6480	3236
4. Alappuzha	50174	5956	56130	61880	5046	66926	79663	4846	84509
5. Kottayam	10691	5194	15885	15084	4813	19897	26346	4737	31083
6. Idukki	17316	3753	21069	23543	3312	26855	35604	3175	38779
7. Ernakulam	3719	5401	9120	4392	5390	9782	5482	4911	10393
8. Thrissur	6345	2339	8684	9941	2038	11979	14497	1922	16419
9. Palakkad	11416	5952	17368	14491	4833	19324	17631	3770	21401
10. Malappuram	10851	6305	17156	13508	5663	19171	10460	4504	14964
11. Kozhikode	16832	3468	20120	21254	3063	24317	17170	1511	18681
12. Wynaad	159805	52003	211808	206056	47728	253784	293847	1074	14482
13. Kannur	6671	6428	13099	8858	8232	15090	8867	7285	16132
14. Kasargod	153	524	677	120	303	423	132	303	435
15. Kanyakumari	6824	6952	13776	8978	8595	15513	8999	7568	16567
Others	2021	6564	8585	2188	6816	9004	4774	6618	11392
TAMIL NADU									
KARNATAKA									
A & N ISLANDS									
TRIPURA	28	389	417	159	878	900	24	895	919
ASSAM									
MEGHALAYA									
NAGALAND									
MIZORAM									
MANIPUR									
GOA	9	214	223	40	923	963	225	548	773
Grand Total	168687	67189	235876	215443	68723	284166	310209	72622	382831
Percentage share	71.52	28.48	100.00	75.82	24.18	100.00	81.03	18.97	100.00

TABLE - 3(Contn.)

District/ State/ Union Territory	1990-91			1995-96			1995-97		
	Holdings	Estates	Total	Holdings	Estates	Total	Holdings	Estates	Total
1.Thiruvananthapuram	21213	843	22156	25077	918	25995	25590	883	26473
2.Kollam	22957	9461	32438	26091	9256	35347	26384	9251	35635
3.Pathanamthitta	36611	6261	42872	41085	5968	47053	41311	5956	47267
4.Alappuzha	3350		3350	3573		3573	3615	0	3615
5.Kottayam	99205	4683	103888	105067	4515	109582	105403	4475	109878
6.Idukki	31766	4379	36145	32985	4255	37240	33117	4260	37377
7.Ernakulam	47991	3172	51163	52347	2900	55247	52072	2897	55669
8.Thiruv	19707	1097	20804	7898	8242	12554	8242	4301	12943
9.Palakkad	18745	3875	22620	24839	1092	25931	25768	1001	26959
10.Malappuram	12255	4395	16650	23271	3034	26305	23901	3058	26959
11.Kozhikode	4897	986	5883	13415	3934	17349	13533	3933	17466
12.Wyndad	21371	1509	22880	5240	62	5302	5401	64	5465
13.Kannur	16164	986	17150	27175	1245	28420	29204	1252	30456
14.Kasargod	362240	45581	407821	406642	42358	449000	413274	42292	455566
15. Kanyakumari	9444	7276	16720	10636	6927	17563	10905	6911	17816
Others	252	178	430	272	113	385	280	113	393
TAMIL NADU	7454	17150	24604	10908	7040	17948	11185	7024	18209
KARNATAKA	9696	6725	16421	6594	6594	13188	10730	6594	17324
A & N ISLANDS	64	896	960	109	845	954	131	845	976
TRIPURA	8162	9158	17320	11242	9519	20761	12338	9644	21982
ASSAM	7154	2226	9380	7607	2336	9943	7887	2356	10243
MEGHALAYA	1018	2448	3466	1087	3018	4105	1174	3171	4345
NAGALAND	520	780	1300	662	861	1523	815	165	980
MIZORAM	113	837	950	378	535	913	399	535	934
MANIPUR	425	778	1203	682	716	1400	737	477	1214
GOA	38	107	145	296	532	828	390	532	922
MAHARASHTRA	165	80	245	118	124	242	199	78	277
ORISSA				13	37	50	32	37	69
ARUNACHAL PRADESH	178		178	*		*	*		*
WEST BENGAL									
ANDHRA PRADESH	397465	77618	475083	449499	74576	524075	459437	73809	533246
Grand Total	83.66	16.34	100.00	85.77	14.23	100.00	86.16	13.84	100.00
Percentage share									

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

TABLE - 3(Contn.)

District/ State/ Union Territory	1997-98			1998-99			1999-00p		
	Holdings	Estates	Total	Holdings	Estates	Total	Holdings	Estates	Total
1. Thiruvananthapuram	26112	887	26999	26585	887	27472	27067	887	27954
2. Kollam	26738	9238	35976	27026	9249	36275	27211	9241	36452
3. Pathanamthitta	41419	6010	47429	41421	6149	47570	41562	6138	47700
4. Alappuzha	3692	0	3692	3722	0	3722	3747	0	3747
5. Kottayam	105812	4465	110277	106162	4366	110548	106589	4334	110923
6. Idukki	33470	4256	37726	33782	4260	38042	33940	4247	38187
7. Ernakulam	53044	2981	56025	53340	2903	56243	53615	2768	56383
8. Thrissur	8904	4301	13105	8982	4308	13290	9074	4298	13372
9. Palakkad	27034	1091	28125	27459	1091	28550	27690	1091	28781
10. Malappuram	25061	2927	28008	25751	2793	28544	26150	2770	28920
11. Kozhikode	13850	3933	17783	13838	3906	17744	14063	3963	18016
12. Wynad	6077	65	6142	6279	56	6337	6387	24	6411
13. Kannur	31477	1253	32730	32301	1253	33554	32569	1237	33806
14. Kasargod	20605	660	21265	21264	699	21963	21549	699	22248
KERALA	423215	42067	465282	428002	41922	469924	431213	41687	472900
15. Kanyakumari	11517	6540	18057	11738	6465	18203	11816	6422	18238
Others	300	113	413	315	113	428	323	98	421
TAMIL NADU	11817	6653	18470	12053	6578	18631	12139	6520	18659
KARNATAKA	12309	6166	18475	13224	6099	19323	13576	5989	19565
A & N ISLANDS	144	845	989	86	845	931	86	845	931
TRIPURA	14048	8534	22582	15586	8534	24120	16846	8534	25380
ASSAM	8399	1661	10060	9144	1661	10805	9983	1661	11644
MEGHALAYA	1588	2169	3757	1789	2169	3958	1946	1737	3683
NAGALAND	1122	165	1287	1278	138	1416	1477	138	1615
MIZORAM	417	211	628	460	211	671	478	65	543
MANIPUR	831	477	1308	924	477	1401	1133	477	1610
GOA	392	532	924	407	532	939	411	428	839
MAHARASHTRA	90	59	149	104	59	163	122	58	180
ORISSA	227	78	305	280	78	358	314	94	408
ARUNACHAL PRADESH	91	37	128	124	37	161	207	37	244
WEST BENGAL	115	75	190	158	75	233	248	37	285
ANDHRA PRADESH	75	75	150	82	82	164	98	98	196
Grand Total	474880	69654	544534	483701	69340	553041	490277	68307	558564
Percentage share	87.21	12.79	100.00	87.46	12.54	100.00	87.77	12.23	100.00

TABLE - 4

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

Year	2 ha. & below			Above 2 ha. & upto & including 4 ha.			Above 4 ha.			Total	
	Units		Area	Units		Area	Units		Area	Units	Area
1955-56	26164		20489	1948		5699	1475		12300	29587	39488
1960-61	67836		52340	4660		13981	2878		24054	75374	90375
1965-66	96477		72433	6175		18051	3852		32526	106504	123010
1970-71	114924		82570	9922		25853	5593		41377	130439	149800
1975-76	132957		92386	11396		29235	6406		47066	150749	168687
1980-81	218155		139809	11924		30140	6389		45494	236468	215443
1985-86	394084		238158	11152		28071	6075		43980	412211	310209
1990-91	763022		332401	13100		33149	4465		33044	815547	410623
1991-92	797429		342010	13556		35569	4562		33138	842500	421159
1992-93	824298		351571	13627		36450	4575		33437	863700	430093
1993-94	845402		359451	13714		37205	4584		34016	881400	437519
1994-95	862728		365654	13994		37849	4678		34463	911289	449499
1995-96	882094		375957	14474		39079	4721		35284	931637	459437
1996-97	912112		384008	14724		40145	4801		36364	957724	474880
1997-98	935456		394412	17210		44104	5058		36850	970978	483701
1998-99p	948553		402336	17317		44515	5108		37645	986489	490277
1999-00p	963613		407601	17627		45031	5249				

TABLE - 4 (Contn.)

ESTATES

Year	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
1955-56	209	6781	179	15047	33	9578	15	7513	4	2762	6	5898	446	47579
1960-61	271	7590	216	17812	29	8082	18	8768	5	3437	8	7841	547	53530
1965-66	325	9556	248	20476	30	8551	19	9400	4	2698	10	13024	636	63703
1970-71	309	8771	273	21318	29	8219	20	9966	6	4036	12	15088	649	67398
1975-76	289	8235	242	19332	27	7366	17	8100	9	6138	14	18018	598	67189
1980-81	258	7289	228	18659	25	7481	15	8208	10	8885	17	20201	553	68723
1985-86	137	4320	171	14408	24	7305	18	9046	14	9294	20	28249	384	72622
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	10622	17	11423	21	34618	334	77681
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
1998-99p	111	3171	136	11743	23	7059	21	10775	11	7313	19	29279	321	69340
1999-00p	111	3188	137	11680	23	7159	20	10301	11	7284	19	28695	321	68307

AREA UNDER HIGH YIELDING AND UNSELECTED MATERIALS

Year	HOLDINGS		ESTATES (Hectares)			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
1956-57	2844	35644	38488	14874	32705	47579	17718	68349	86067
1960-61	26912	63463	90375	23811	29719	53530	50723	93182	143905
1965-66	53048	69962	123010	39534	24169	63703	92582	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	169899	45744	215643	68110	613	68723	237809 ✓	46357	284166
1985-86	39374	39374	310209	72072	550	72622	342907	39924	382831
1990-91	32150	32150	397465	77228	390	77618	442543	32540	475083
1991-92	365315	31587	410623	77519	372	77691	456555	31959	488514
1992-93	379036	30511	421159	77658	357	78215	468506	30968	498374
1993-94	390648	402705	430093	77987	340	78327	480692	27728	508420
1994-95	412876	24643	437519	77689	339	78028	490565	24982	515547
1995-96	427235	22264	449499	74250	316	74576	501495	22560	524075
1996-97	439224	20213	459437	73522	287	73809	512746	20500	533246
1997-98	456835	18045	474890	69398	256	69654	528233	18301	544534
1998-99	468105	15596	483701	69094	256	69340	537189	15852	553041
1999-00p	476289	13988	490277	68080	227	68307	544369	14215	595994

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
1955-56	62399	21680	347	3204	1806	501	1444	406	281	134	38	284	67181	23730
1956-57	67394	21853	324	3259	1806	554	1449	365	252	134	36	269	72236	24060
1957-58	66198	22196	335	3265	1830	579	1449	425	293	110	23	209	71022	24534
1958-59	65415	22062	337	3222	1685	517	1506	435	282	110	17	184	70253	24169
1959-60	65007	21890	337	3185	1814	570	1506	437	290	110	32	291	69808	24173
1960-61	65355	23175	354	3305	2040	617	1483	452	305	110	30	272	70253	25697
1961-62	69269	24954	360	3421	2080	602	1501	402	268	110	30	272	74301	27446
1962-63	78516	29057	370	3901	2695	691	1527	447	293	110	40	364	84054	32239
1963-64	89529	33792	377	4319	3176	735	1487	468	315	171	51	298	95506	37487
1964-65	102125	41391	405	4678	3724	796	1407	481	342	171	20	117	108381	45616
1965-66	106823	46953	440	4721	3195	677	1365	382	280	-	-	-	112709	50530
1966-67	107298	50495	471	4812	3927	816	1390	396	285	-	-	-	113500	54818
1967-68	111400	59978	538	4908	4048	825	1395	434	310	24	8	333	117727	64468
1968-69	116935	66473	568	4958	4100	827	1365	470	344	24	11	458	123282	71054
1969-70	128358	76897	609	5339	4526	848	1386	516	372	24	14	583	133107	81953
1970-71	134103	86773	647	5673	4859	857	1374	519	378	26	20	769	141176	92171
1971-72	142000	95499	673	5943	5140	865	1336	550	412	28	21	750	149307	101210
1972-73	146957	105934	721	6490	5739	884	1465	659	450	50	32	640	154962	112364
1973-74	156384	117221	750	7460	7036	943	1710	866	501	50	40	800	168604	125153
1974-75	150956	121558	755	7982	7523	942	1861	1012	544	80	50	625	170879	130143

Chart 2
AVERAGE YIELD PER HECTARE

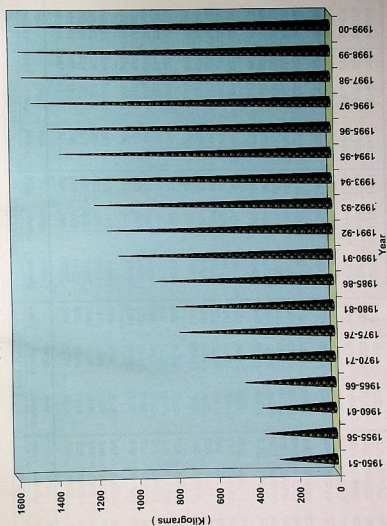


TABLE - 6 (Contn.)

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
1976-76	167742	128769	768	8257	7631	924	2392	1282	536	89	68	764	178480	137750	772
1976-77	173737	139349	802	8952	8535	953	2715	1667	614	190	81	426	185594	149632	806
1977-78	177890	135907	764	8990	9015	1003	3910	1959	501	216	106	491	191006	146987	770
1978-79	177085	123677	698	8952	9367	1046	3893	2100	539	400	153	383	190330	135297	711
1979-80	176890	136609	764	9195	9108	990	4012	2537	632	457	216	473	192554	148470	771
1980-81	179980	140320	780	9700	10446	1077	4004	2128	531	561	206	367	194245	153100	788
1981-82	181180	139435	770	9812	10510	1060	4344	2606	600	775	319	412	196211	152870	779
1982-83	184340	152682	828	10035	9700	967	4360	3070	704	977	418	428	199712	165850	830
1983-84	187720	162212	864	10600	9736	918	5200	2785	536	1000	547	547	204520	175280	857
1984-85	193290	172092	890	10700	10603	991	5365	3095	577	1164	660	567	210519	186450	886
1985-86	205780	184563	897	10560	11025	1044	5610	4090	729	1397	787	563	223347	200465	898
1986-87	218750	202129	924	10970	11755	1071	5935	4855	818	1409	781	554	237064	219520	926
1987-88	229640	216562	942	11549	12470	1080	6120	5253	858	1491	912	612	249100	235197	944
1988-89	246660	236414	967	11800	13370	1153	6281	6222	991	1562	1166	746	266103	259172	974
1989-90	268714	275397	1025	11835	14065	1188	6500	6475	996	2011	1363	678	289060	297300	1029
1990-91	284960	307521	1079	11873	13645	1149	6957	6665	958	2623	1784	680	306413	329615	1076
1991-92	301360	343109	1139	12180	13975	1147	7370	7290	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	1399	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	7690	7004	911	365580	549425	1503
1997-98	342420	541935	1583	13000	19175	1475	10365	12150	1172	11185	10570	945	376970	563850	1549
1998-99	349683	559089	1599	13215	20263	1533	10685	12549	1174	13517	13134	972	387100	605045	1563
1999-00p	354342	572820	1612	13377	21134	1580	10980	13115	1194	16101	15196	944	394800	622285	1576

TABLE -7

MONTHWISE PRODUCTION OF NATURAL RUBBER

(Tonnes)

Month	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
April	11020	17030	20550	23590	25245	28520	30870	31880	35300	38315	41080	41735	43355
May	21450	25850	26740	20570	30710	31630	34845	38275	37210	44890	47460	47840	37665
June	12660	14815	16280	18310	20310	22880	25300	26560	29660	36140	40180	41220	38990
July	14585	14070	16685	20520	20650	23835	26295	27610	32540	35810	36990	38580	40220
August	15190	13970	22955	25260	28240	28815	35150	38210	39475	40545	43440	46790	50870
September	24480	13540	28445	34850	39470	34980	46450	48930	48260	51360	55980	48470	58250
October	27535	32890	29160	37965	39940	39695	41360	52660	53040	55110	59320	57130	60555
November	27387	34650	34430	37885	41635	45100	47475	53390	58815	63150	65255	71065	76225
December	29240	36340	37330	39840	43235	54240	52490	54650	62860	64820	71420	75750	77430
January	26120	27727	32290	35650	38690	44805	47750	51210	55990	60125	64785	69710	70365
February	12050	12480	15700	16265	17880	20550	22080	23790	25085	27590	28260	31560	32190
March	13480	15810	16735	18910	20740	22440	25085	27710	28875	31570	29660	35395	36150
Total	235197	259172	297300	329615	366745	393490	435160	471815	506910	549425	583830	605045	622265
Annual growth rate	7.14	10.19	14.71	10.87	11.26	7.29	10.59	8.42	7.44	8.39	6.26	3.63	2.85

Chart 3
GRADEWISE PRODUCTION OF NR - 1999-2000



ANALYSIS OF THE DATA OBTAINED FROM THE EXPERIMENT

1. Introduction

Time (s)	Distance (m)	Velocity (m/s)	Acceleration (m/s ²)	Force (N)	Work (J)	Power (W)	Efficiency (%)
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.5	0.1	0.2	0.4	0.2	0.05	0.1	10.0
1.0	0.4	0.4	0.8	0.4	0.16	0.4	20.0
1.5	0.9	0.6	1.2	0.6	0.45	0.9	30.0
2.0	1.6	0.8	1.6	0.8	0.8	1.6	40.0
2.5	2.5	1.0	2.0	1.0	1.25	2.5	50.0
3.0	3.6	1.2	2.4	1.2	1.8	3.6	60.0
3.5	4.9	1.4	2.8	1.4	2.45	4.9	70.0
4.0	6.4	1.6	3.2	1.6	3.2	6.4	80.0
4.5	8.1	1.8	3.6	1.8	4.05	8.1	90.0
5.0	10.0	2.0	4.0	2.0	5.0	10.0	100.0

CONCLUSION

2. Results

TABLE - 8

GRADEWISE PRODUCTION OF NATURAL RUBBER

(Tonnes)

Grade	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
RSS	162815	177625	207180	236530	263220	281335	315535	342775	373455	396160	436560	436275	454180
Latex Concentrates(drc)	27688	32478	36910	39440	43425	46245	48810	52655	59695	61550	55400	64565	60640
Solid Block	11246	15354	17160	16980	25870	27107	31240	40390	41110	51960	49910	59715	60095
Rubber													
Pale Latex	2112	2440	2409	2725	2900	2608	2985	2790	2310	1565	1315	1980	1845
Crepes													
Others	31336	31275	33641	33940	31330	36195	36590	33205	30340	38190	40645	42510	45505
Total	235197	259172	297300	329615	366745	393490	435160	471815	506910	549425	583830	605045	622265

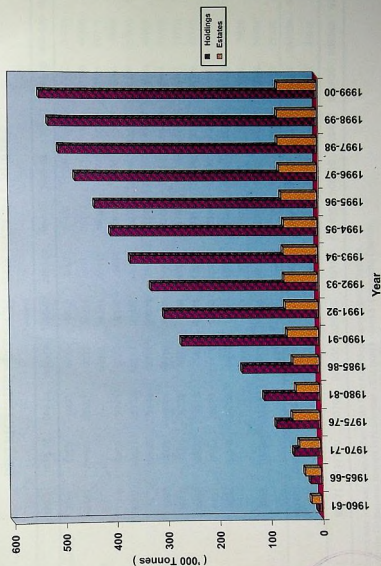
TABLE - 9

PRODUCTION OF HOLDINGS AND ESTATES

(Tonnes)

Year	Holdings	Estates	Total	Year	Holdings	Estates	Total
1950-51	3387	12443	15830	1981-82	109160	43710	152870
1955-56	6450	17280	23730	1982-83	117789	48061	165850
1960-61	6528	19169	25697	1983-84	125912	49368	175280
1965-66	20424	30106	50530	1984-85	136335	50115	186450
1966-67	24165	30653	54818	1985-86	149673	50792	200465
1967-68	30215	34253	64468	1986-87	168195	51325	219520
1968-69	36312	34742	71054	1987-88	181710	53487	235197
1969-70	43785	38168	81953	1988-89	204000	55172	259172
1970-71	51538	40633	92171	1989-90	239400	57900	297300
1971-72	57630	43580	101210	1990-91	288500	61115	329615
1972-73	66247	46117	112364	1991-92	302700	64045	366745
1973-74	75331	49822	125153	1992-93	327500	65990	393490
1974-75	79260	50883	130143	1993-94	367950	67210	435160
1975-76	84616	53134	137750	1994-95	405900	65915	471815
1976-77	93848	55784	149632	1995-96	436500	70410	506910
1977-78	94135	52852	146987	1996-97	475000	74425	549425
1978-79	88767	46530	135297	1997-98	507000	76830	583830
1979-80	103210	45260	148470	1998-99	527000	78045	605045
1980-81	107700	45400	153100	1999-00p	544600	77665	622265

Chart 4
PRODUCTION OF HOLDINGS AND ESTATES



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TABLE-10

DISTRICTWISE PRODUCTION OF NATURAL RUBBER

(Tonnes)

District/State	1970-71	1975-76	1980-81	1985-86	1990-91	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99p	1999-00p
Thiruvananthapuram	3581	5223	5933	8475	15513	23457	25437	27298	29046	30717	31309	32913
Kollam	16141	24185	25561	19807	28951	34315	36773	38821	41180	43130	44405	45727
Pathanamthitta	--	--	--	16245	34264	45616	49924	52974	56894	59131	60711	61664
Alappuzha	1713	2409	2771	2722	2140	2804	2973	3135	3386	3706	3868	3954
Kottayam	26907	34021	36132	50134	82852	105198	113225	120946	129871	135125	137820	139550
Idukki	--	10187	11140	15611	28638	34286	36540	38956	40712	43380	44005	44853
Ernakulam	11907	12292	13929	19419	37586	53395	58206	62159	66604	69967	71593	72663
Thrissur	5700	7190	6739	6079	9108	12639	13790	15513	17615	18361	18775	19431
Palakkad	1466	3816	4516	7150	12531	18389	20414	22571	25275	28076	30150	31235
Malappuram	6451	9132	10571	11419	14855	20269	22330	24430	27405	29907	31740	32608
Kozhikode	7656	10078	10730	8602	12769	16743	18124	19490	20640	21559	21833	22583
Wynad	--	--	--	1635	2357	2740	2879	3015	3217	3561	3828	3907
Kannur	5251	10238	12298	9841	16808	22196	24506	26876	30559	33646	36164	37992
Kasaragod	--	--	--	7424	13149	16264	17709	18971	20372	21669	22898	23732
Kerala	86773	128769	140320	184563	307521	408311	442830	474555	512756	541935	559099	572820
Outside Kerala	5398	8981	12780	15902	22094	26849	28985	32355	36669	41895	45946	49445
Grand Total	92171	137750	153100	200465	329615	435160	471815	506910	549425	583830	605045	622265

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

TABLE - II

MONTHWISE IMPORT OF NATURAL RUBBER

(Tonnes)

Month	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
April	6091	9937	12063	10614	2953	1597	1548	762	940	1021	2347	2959	589
May	8340	14792	2287	7759	1195	791	2894	723	820	1619	1737	1085	890
June	6921	7380	1550	8096	2153	3240	1122	84	3290	1584	3518	905	1252
July	9738	6823	7706	2598	827	2738	2868	691	12301	3156	3378	3493	1936
August	9553	3440	1498	4718	1543	740	3031	914	16654	1531	2518	3942	3879
September	263	764	1312	5977	1347	3798	1655	1460	5658	1057	2190	4712	1958
October	456	1384	825	1794	472	1321	1105	1196	1754	876	2115	1807	1617
November	2378	625	1858	1143	937	695	756	33	6562	727	1368	1376	1228
December	681	4036	433	2013	583	469	946	248	231	1927	3168	1813	809
January	2220	4750	935	1281	604	516	392	806	810	1573	2741	4573	935
February	3285	1606	5492	1132	780	996	360	405	1443	1819	3457	1587	700
March*	3759	4298	8486	1888	1676	983	3263	771	1172	2880	3533	1282	843
Total	53695	59835	44445	49013	15070	17884	19840	8093	51635	19770	32070	29534	16436

*: Including year end adjustment.

TABLE - 12

GRADEWISE IMPORT OF NATURAL RUBBER
(Tonnes)

Grade	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
RSS 1	38	108	398	304	308	129	--	144	334	109	802	302	287
RSS 2	361	377	--	--	--	155	65	--	81	20	--	--	--
RSS 3	38954	40218	36759	37407	10213	13395	14547	5248	26985	9080	10238	10903	5305
RSS 4	204	28	351	184	1186	1328	382	--	6787	1885	5878	4913	2025
RSS 5	--	--	--	--	--	--	--	--	1287	2598	1160	1139	506
Latex	--	--	26	718	1397	626	2274	769	683	863	4331	3583	2658
Block Rubber	14128	18966	6790	9827	1695	1986	2383	1832	15061	4977	9463	8476	5456
EBC 2X	--	--	--	294	--	--	--	--	--	27	--	--	--
Pale Latex Crepe	--	138	121	279	271	265	289	--	417	211	198	218	199
Total	53685	59835	44445	49013	15070	17884	19940	8093	51635	19770	32070	29534	16436

TABLE - 13

GRADEWISE EXPORT OF NATURAL RUBBER

(Tonnes)

Grade	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
RSS 1	0	0	14	58	0	110	9	17	27
RSS 2	0	0	18	221	36	0	18	0	0
RSS 3	0	0	13	226	305	36	84	220	158
RSS 4	0	0	0	108	105	27	45	95	5037
RSS 5	5834	5988	0	23	117	164	243	198	60
ISNR 5	0	0	0	0	0	18	0	0	1
ISNR 10	0	0	100	108	319	302	320	200	131
ISNR 20	0	0	40	1077	248	922	625	1070	525
ISNR 3C	0	0	0	94	0	0	0	0	0
EBC 1X	0	0	0	10	0	0	0	0	0
EBC 2X	0	0	0	0	0	2	0	0	1
EBC 3X	0	0	0	3	0	0	0	0	0
Latex (60% drc)	0	11	1	33	0	17	71	40	49
TOTAL	5834	5999	186	1961	1130	1598	1415	1840	5989

Table 14

COUNTRYWISE EXPORT OF NATURAL RUBBER

(Quantity in Tonnes and value in '000 Rs.)

	1993-94		1994-95		1995-96		1996-97		1997-98		1998-99		1999-2000p	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Australia	0	0	0	0	0	0	33	1452	107	3879	230	6843	40	1150
France	0	0	115	5445	0	0	0	0	0	0	0	0	24	810
Germany	0	0	58	2564	71	3720	0	0	0	0	0	0	19	610
Indonesia	0	0	0	0	0	0	0	0	0	0	0	0	756	19290
Iran	0	0	0	0	0	0	96	4752	0	0	0	0	0	0
Japan	0	0	0	0	0	0	0	0	36	1931	0	0	0	0
Jordan	0	0	0	0	5	264	0	0	0	0	0	0	0	0
Kenya	0	0	136	6709	0	0	0	0	0	0	0	0	0	0
Korea	0	0	10	457	0	0	0	0	0	0	0	0	0	0
Malaysia	0	0	0	0	0	0	0	0	0	0	0	0	162	4140
Mexico	0	0	0	0	0	0	0	0	0	0	47	1690	0	0
Nepal	127	3300	665	26185	1054	62669	1356	67429	1236	44246	1491	44884	937	30130
Netherlands	19	500	448	16789	0	0	0	0	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0	0	0	0	0	0	0	162	4230
Russia	0	0	40	1880	0	0	110	5920	0	0	17	1042	9	290
South Africa	0	0	38	1960	0	0	0	0	0	0	0	0	72	1880
Singapore	40	900	135	4765	0	0	0	0	0	0	19	541	3798	99060
Spain	0	0	0	0	0	0	0	0	16	485	0	0	0	0
Sri Lanka	0	0	38	1794	0	0	0	0	0	0	0	0	0	0
Tanzania	0	0	58	3430	0	0	0	0	0	0	36	918	0	0
Tanzania	0	0	182	7441	0	0	0	0	0	0	0	0	0	0
U.K.	0	0	0	0	0	0	0	0	20	687	0	0	0	0
U.S.A	0	0	38	1321	0	0	3	205	0	0	0	0	10	380
Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	186	4700	1961	80740	1130	66553	1598	79758	1415	51228	1840	55918	5969	161970

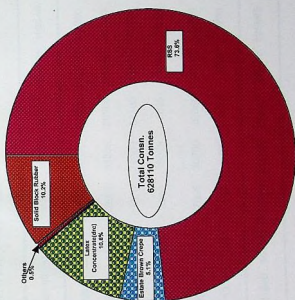
TABLE-15

MONTHWISE CONSUMPTION OF NATURAL RUBBER

(Tonnes)

Month	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
April	21920	26365	26780	29040	29385	33250	36025	37745	41770	45030	44800	45190	49705
May	22475	25805	27980	29215	29910	32150	35875	38330	41525	45955	48600	46020	51290
June	22360	26270	27795	29350	29820	33115	37730	39280	41140	46530	46050	48250	50315
July	23935	25250	27430	31040	30515	33795	38270	39720	43455	49360	48320	47710	52115
August	22880	25475	27530	29420	31320	33995	36650	39850	43265	47525	49810	47550	49775
September	21965	25585	28765	29140	31850	33450	34380	39985	41250	47350	48455	49910	53460
October	21735	24975	27645	30335	31660	34280	36820	38705	43855	45080	47450	48590	50315
November	25870	26555	30360	31405	32410	35585	38200	40220	46480	46050	48150	52400	53670
December	27815	28320	29650	31585	34175	35920	41450	43940	45650	48260	49350	53900	56505
January	25885	26370	29180	31530	32410	36780	38635	44070	45485	48400	48310	51155	54310
February	25190	25850	28255	30870	32960	35565	38160	41655	44410	45045	45275	48535	53195
March	25450	27030	30470	31380	33735	36220	38285	42350	47180	47200	47250	52355	53455
Total	287480	313830	341840	364310	380150	414105	450480	485850	525465	561765	571820	591545	628110
Annual growth rate	11.73	9.17	8.93	6.57	4.35	8.93	8.78	7.85	8.15	6.91	1.79	3.45	6.18

Chart 5
GRADEWISE CONSUMPTION OF NR - 1999-2000



CONSEQUENCE COMPARISON



Consequence Level	Percentage	Count	Weighted Count
Severe	25%	10	250
Moderate	45%	18	810
Minor	20%	8	160
Negligible	10%	4	40
Total	100%	40	1260

TABLE - 16

GRADEWISE CONSUMPTION OF NATURAL RUBBER

(Tonnes)

Grade	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
RSS	200420	216550	240895	261780	272605	298090	332720	353730	383280	415220	419935	432695	462120
Estate Brown Crepe	30991	29796	36365	30367	32515	32205	28300	30940	27923	32350	30860	29435	31835
Latex Concentrate(drc)	28190	30420	36790	39865	42370	48600	52185	53985	57995	56255	58100	65430	66775
Pale Latex Crepe & Sole Crepe	2877	2325	2710	3307	3240	3075	3035	3085	2826	1780	1395	1920	2190
Solid Block Rubber	24080	33730	23750	27700	27855	30730	32560	42345	52205	55060	60780	61295	64385
Others	922	1009	1330	1291	1565	1405	1880	1765	1236	1100	750	770	805
Total	287480	313830	341840	364310	380150	414105	450480	485850	525465	561765	571820	591545	628110

TABLE - 17

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

Month	1989-90				1990-91				1991-92			
	G & D	M	STC	T	G & D	M	STC	T	G & D	M	STC	T
April	24055	22025	28969	75049	25550	25185	24251	74986	28245	32240	24591	85076
May	27305	22450	26379	76134	26860	26600	21108	74568	31045	31370	24591	87006
June	21325	22660	22266	66251	23730	28790	19632	72152	25980	28555	24591	79126
July	20835	20670	20199	61704	23475	26965	13823	64363	23165	22275	24591	70031
August	25325	21670	14209	61204	26165	25760	13281	65206	25725	23690	18968	68383
September	29075	24365	8533	61973	35100	23750	16891	75741	33200	25200	18935	77335
October	32840	23250	8078	64168	40410	27940	16891	85241	43315	23360	19378	86053
November	36775	25185	8078	70038	50015	25965	16891	92871	49640	26175	20215	96030
December	41550	28720	8078	78348	55720	30720	16891	103331	56245	26565	23200	106010
January	42280	31975	8078	82333	59295	33580	16891	109766	57800	26430	28461	112691
February	34120	30515	10631	75266	42225	35795	18341	96361	38510	25325	34140	97975
March	25460	27360	16796	69616	30230	34045	22155	86430	26185	25980	29083	81248

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-17 (Contn.)

Month	1992-93				1993-94				1994-95				1995-96			
	G & D	M	STC	T	G & D	M	T		G & D	M	T		G & D	M	T	
April	24140	22785	24819	71844	39340	29200	68540		39120	32780	71900		29105	34615	63720	
May	27990	23780	21199	72969	40510	30840	71350		42905	30670	73575		31245	28510	59755	
June	26695	26550	9605	62850	31585	29740	61325		31115	29735	60850		28310	23960	52270	
July	26340	25340	3414	55094	26480	26100	52580		25895	23475	49370		29995	22800	52795	
August	27490	20710	1689	49859	32070	21690	53760		30065	16180	46265		35575	28490	64065	
September	34430	19040	659	54129	48010	20590	68590		35255	19305	54580		51605	30960	82585	
October	41885	19340	486	61711	50805	23500	74305		48990	21505	70495		62830	31500	94330	
November	48990	22370	486	71846	62300	22365	84665		59055	24520	83575		71745	37365	109110	
December	66160	24290	486	90936	71515	24915	96430		62935	31125	94060		78110	49240	127350	
January	74205	24735	486	99426	77370	28540	105910		59770	41205	100975		81840	57125	138765	
February	58605	25575	486	84666	56865	33045	89910		41240	42290	83530		66445	53935	120380	
March	42930	27725	486*	71141	42125	34890	77015		27490	42060	69550		50960	52230	103190	

* Stock disposed in December 93.

TABLE-17 (Contn.)

Month	1996-97			1997-98			1998-99			1999-2000		
	G & D	M	T	G & D	M	T	G & D	M	T	G & D	M	T
April	51210	46130	97340	68890	36550	105440	107265	39180	146445	138135	44025	182160
May	56470	41430	97900	70220	35490	105710	112330	36600	148930	129230	40040	169270
June	46040	43410	89450	67205	35630	102835	107575	35015	142590	120263	38832	159195
July	40175	38540	78715	64150	30265	94415	98895	37050	135945	110875	38160	149035
August	43900	29010	72910	62855	27765	90620	101550	36850	138400	114780	39030	153810
September	50600	27300	77900	70445	29790	100235	107920	33010	140930	120650	39385	160235
October	59120	29100	88220	81500	32510	114010	116195	35015	151210	139755	32045	171800
November	70750	35070	105820	94285	37850	132135	135700	35520	171220	156365	38570	194935
December	85860	37570	123430	120925	36025	156950	157785	36290	194075	177290	37800	215090
January	93500	43095	136595	137295	38560	175855	171745	44365	216110	184000	47040	231040
February	82590	38095	120685	122320	39070	161390	156560	43825	200385	156015	54255	210270
March	69860	37450	107310	109225	38075	147300	144465	43500	187965	140470	52100	192570

TABLE - 18

MONTHWISE PRODUCTION OF SYNTHETIC RUBBER

(Tonnes)

Month	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
April	3003	3624	3609	3840	4082	4846	4090	4391	3615	4069	4208	4695	4861
May	2952	4585	4042	4352	4046	5144	2973	4359	4801	5635	6121	5964	5453
June	2756	3664	4860	4519	4619	4446	3879	5664	6415	4323	6157	5632	5528
July	3662	4795	4835	5240	4469	3691	4057	5803	7118	6370	5693	5793	5943
August	4530	3735	4296	3673	5412	5354	3088	6278	7137	5872	7342	6761	5540
September	4144	4350	2915	4095	4973	5574	4746	5343	4402	4325	6097	4582	5321
October	3029	5145	5006	4717	5266	5730	2878	3401	5975	3286	6174	4953	4390
November	4270	4990	4555	4810	4472	2231	5423	6133	5021	6123	6287	5827	5067
December	4201	4574	5284	5971	5064	4563	5410	6927	6626	5770	7199	5745	5362
January	2418	5142	4971	5547	5555	5185	5766	6245	5301	7347	5645	5558	4001
February	4888	4711	3800	5085	5216	5677	4781	4557	5666	5690	5121	5461	3995
March	4615	5074	5209	5444	4552	5651	2542	4580	6146	5753	5949	6619	4832
Total	44468	54389	53482	57293	57726	57892	49633	63681	68223	64563	71993	67590	60293

TABLE - 19

GRADEWISE PRODUCTION OF SYNTHETIC RUBBER

(Tonnes)

Grade	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
SBR 1502	8098	12075	9988	11962	8962	8099	4620	9289	11608	9897	6243	3035	239
SBR 1712	6753	8325	8228	8745	8458	5406	1646	5425	7645	6265	5031	1183	--
SBR 1958	13395	17131	18835	19808	21027	21355	22687	21773	17704	20529	17770	15139	12322
Latex(drc)*	1008	1141	1326	1501	1902	1908	2153	3044	3389	4064	3038	1984	1411
Nitrile	708	67	--	--	--	3108	2592	2614	2837	4300	3619	4445	5280
Polybutadiene	14488	15650	15105	15277	17365	17377	14728	19320	21442	15547	32789	38760	35750
EPDM	--	--	--	--	--	2	1170	2194	3598	3597	3136	4619	4811
Others	18	--	--	--	12	637	57	22	--	364	367	425	480
Total	44468	54389	53482	57293	57726	57892	49633	63681	68223	64563	71993	67590	60293
Annual growth rate	14.56	22.31	-1.67	7.13	0.76	0.29	-14.27	28.30	7.13	-5.36	11.51	-6.12	-10.80

* includes SBR Latex, VP Latex and Nitrile Latex.

TABLE - 20

GRADEWISE CONSUMPTION OF SYNTHETIC RUBBER

(Tonnes)

Grade	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
Styrene butadiene rubber @	33420	39095	40945	45225	44035	45985	46310	48850	51920	54424	55220	51245	53790
Polybutadiene	20925	22920	24630	27115	27430	29875	31580	36195	38700	42033	50250	44040	49245
Butyl	12392	13790	13765	20884	21793	20051	21819	22782	24645	26845	32110	35910	37925
Polychloroprene	1987	2080	2568	2941	3065	3173	3187	3162	3795	3852	4610	4680	5115
Nitrile	2915	2960	3031	3680	3573	3848	3949	4148	4790	4880	5635	6455	6805
Latex(drc)	2345	2400	2455	3442	3570	3485	3593	3955	4320	4740	5070	5050	5025
EPDM	..	..	..	..	680	815	1457	2018	3200	3400	4265	5985	6190
Others*	2426	905	1156	1548	1504	1458	1500	1600	2715	2636	3555	3050	3325
Total	76410	84150	93550	104735	105650	108690	113395	122710	134085	142810	160915	156395	167220
Annual growth rate	6.44	10.13	11.17	11.96	0.87	2.88	4.33	8.21	9.27	6.51	12.68	-2.81	6.92

* : Include unclassified rubber also.

@ : Include SBR latex.

TABLE-21

STOCK OF SYNTHETIC RUBBER AT THE END OF EACH MONTH

(Tonnes)

Month	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
April	14340	12625	15700	15150	16560	11155	14680	14070	14700	20455	31420	29420	38175
May	14815	12900	16920	16280	15385	11515	16850	14495	14485	20785	30940	31980	34720
June	14120	12950	17730	15800	14750	11070	18380	15955	14810	23325	32180	31630	32040
July	13500	14175	17600	15900	13125	11490	17920	16050	16110	23230	32735	33895	32450
August	14540	13525	17010	15500	13600	11350	15675	17420	17500	23885	31630	36390	30130
September	15125	13920	15930	14200	12770	11340	16890	16930	16300	24110	30825	34675	35690
October	14135	15250	16800	14000	12270	13160	14900	15190	16820	24160	28890	34240	30515
November	13020	15550	16650	17010	11690	12430	16790	16120	17195	25175	27435	36640	28060
December	13340	16075	17150	18780	11620	13200	16400	17190	17400	24740	27075	37960	25420
January	11860	16045	17800	19650	12380	12960	16790	18200	16380	27110	26005	38150	20670
February	13170	17010	16900	19100	12485	14480	16825	17235	16100	27825	27385	40440	16330
March	13245	17000	15500	19500	11470	12390	14685	20285	18760	31560	29030	42410	16270

TABLE - 22

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

(Tonnes)

Year	Production	Import	Consumption	Export
1960-61	2000*	3024	5453	--
1965-66	9500	179	9774	--
1970-71	15507	--	14348	259
1971-72	16710	--	15772	692
1972-73	17186	--	14666	1076
1973-74	18644	--	17784	1268
1974-75	19360	--	18096	1050
1975-76	19581	--	19342	141
1976-77	20256	--	20957	973
1977-78	21817	--	21681	1282
1978-79	27618	--	26330	1045
1979-80	26786	--	25660	953
1980-81	29336	--	28850	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
1999-00p	64060	--	63450	2184

*: Approximate

Source: For Import and export data upto 1990-91,

"Monthly Statistics of Foreign Trade of India", published by Govt. of India &
CAPEXIL (Formerly known as Chemicals and Allied Products Export Promotion Council).

TABLE-23

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
1955-56	23730		23730	4428	1201	5629	12		28445	461	28906
1956-57	24060		24060	7341	3134	10475	81		29998	2866	32864
1957-58	24534		24534	11357	3014	14371			33074	3161	36235
1958-59	24169		24169	12538	4229	16767			35767	3477	39244
1959-60	24173		24173	15287	5718	21005			40491	4964	45455
1960-61	25697		25697	23125	8097	31222			48148	7397	55545
1961-62	27446		27446	22528	10121	32649			48410	10186	58596
1962-63	32239		32239	23360	10297	33657			53553	10723	64276
1963-64	37487	8075	45562	26275	8812	35087			61155	11959	73114
1964-65	45616	11633	57249	15003	3315	18318			61057	15285	76342
1965-66	50630	14741	65271	16357	2735	19092			63765	21553	85318
1966-67	54818	22358	77176	23544	5806	29150			68685	23592	92277
1967-68	64468	19942	84410	9551	3127	12678			74518	23324	97842
1968-69	71054	25868	96922	8548	2909	11457			86615	27238	113853
1969-70	81953	28689	110642	17821	4736	22557			86213	30636	116849
1970-71	92171	29791	121962	2469	5014	7483			87237	33160	120397
1971-72	101210	32911	134121	437	5627	6064			96454	37209	133663
1972-73	112364	21832	134196	380	6044	6424			104028	33913	137941
1973-74	125153	23542	148695	52	5609	5661	2700		130302	23921	154223
1974-75	130143	17712	147855		6939	6939	350		132604	24376	156980

TABLE-23(Contn.)

Year	PRODUCTION			IMPORT			EXPORT		CONSUMPTION		
	Natural	Synthetic	Total	Natural	Synthetic	Total	Natural	Total	Natural	Synthetic	Total
1975-76	137750	25119	162869		6391	6391			125692	32452	158144
1976-77	149632	23212	172844		7812	7812	12296		137623	34955	172578
1977-78	146987	27288	174275		8935	8935	11078		144967	38150	183117
1978-79	135237	28054	163291	14750	13309	28059			164524	40470	204994
1979-80	148470	29524	177994	32200	17314	49514			165245	43238	208483
1980-81	153100	25293	178393	9250	17482	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	200405	34758	235223	41431	39086	80517			237440	70035	307475
1986-87	219520	38816	258336	45356	32600	77956			257305	71795	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	323615	57283	386908	49013	51715	100728			364310	104735	469045
1991-92	365745	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		561765	142810	704575
1997-98	583830	71993	655823	32070	86389	118459	1415		571820	160915	732735
1998-99p	605045	67590	672635	29534	102185	131719	1840		591545	156395	747940
1999-00p	622285	60293	682558	16436	80039	96475	5989		628110	167220	795330

TABLE - 24

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

Month	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
April	72290	77325	90750	90140	101635	83000	83220	85970	78420	117795	136860	175865	220335
May	79950	92440	93050	90850	102390	84485	88200	89070	74240	118685	136650	180910	203990
June	76440	88410	83980	87950	93875	73920	79705	76805	67080	112775	135015	174220	191235
July	75950	85280	79305	80265	83155	66585	70500	65420	68905	101945	127150	169840	181485
August	78020	76565	78200	80705	81985	61250	69435	63885	81565	96795	122250	174790	183940
September	81385	64800	77900	89940	90105	65470	85480	71490	98865	102010	131060	175005	196125
October	86525	75420	80970	99240	98320	74870	89205	85685	111150	112380	142900	185450	202315
November	88155	84440	86690	109880	107720	84275	101455	99695	126305	130995	159570	207860	222985
December	90935	97020	95500	122110	117690	104135	112830	111250	144750	148170	184025	232035	240515
January	92000	103095	94130	129415	125070	112385	122700	119175	155145	163705	201860	254260	251175
February	83450	92270	92165	115460	110460	99145	106735	100765	136480	148510	186775	240825	226605
March	77345	86280	85110	105930	92720	83430	91680	89835	121950	138870	176330	230375	208645

Chart 6
PRODUCTION AND CONSUMPTION OF NR

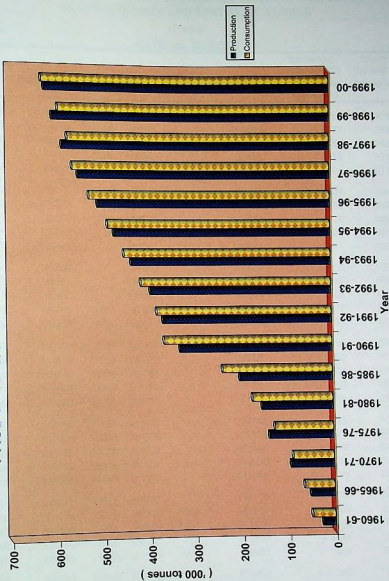




TABLE - 25

PRODUCTION, IMPORT, CONSUMPTION AND STOCK OF NATURAL RUBBER AND SYNTHETIC RUBBER

(Tonnes)

NATURAL RUBBER

Year	Production	Import	Total	Export	Consumption	Excess(+) / Deficiency(-) compared with demand	Stock at the end of the period
1965-66	50530	16357	66887		63765	+ 3122	16573
1966-67	54818	23544	78362		68685	+ 9677	25978
1967-68	64468	9551	74019		74518	- 499	25348
1968-69	71054	8548	79602		86615	- 7013	18222
1969-70	81953	17821	99774		86213	+13561	31778
1970-71	92171	2469	94640		87237	+ 7403	39109
1971-72	101210	437	101647		96454	+ 5193	44277
1972-73	112364	380	112744		104028	+ 8716	52957
1973-74	125153	52	125205	2700	130302	- 7797	45160
1974-75	130143		130143	350	132604	- 2811	42349
1975-76	137750		137750		125692	+ 12058	53759
1976-77	149632		149632	12296	137623	- 287	53085
1977-78	146987		146987	11078	144967	- 9058	44027
1978-79	135297	14750	150047		164524	- 14477	29515
1979-80	148470	32200	180670		165245	+ 15425	44910
1980-81	153100	9250	162350		173630	- 11280	33700
1981-82	152870	42750	195620		188420	+ 7200	39700
1982-83	165850	33401	199251		195545	+ 3706	43400
1983-84	175280	35940	211220		209480	+ 1740	45150
1984-85	186450	37461	223911		217510	+ 6401	51550
1985-86	200465	41431	241896		237440	+ 4456	55360
1986-87	219520	45356	264876		257305	+ 7571	62700
1987-88	235197	53685	288882		287480	+ 1402	64100
1988-89	259172	59835	319007		313830	+ 5177	69280
1989-90	297300	44445	341745		341840	- 95	69610
1990-91	329615	49013	378628		364310	+14318	86430
1991-92	366745	15070	381815	5834	380150	- 4169	81250
1992-93	393490	17884	411374	5999	414105	- 8730	71140
1993-94	435160	19940	455100	186	450480	+ 4434	77015
1994-95	471815	8093	479908	1961	485850	- 7903	69550
1995-96	506910	51635	558545	1130	525465	+ 31950	103190
1996-97	549425	19770	569195	1598	561765	+ 5832	107310
1997-98	583830	32070	615900	1415	571820	+ 42665	147300
1998-99	605045	29534	634579	1840	591545	+ 41194	187965
1999-00p	622265	16436	638701	5989	628110	+ 4602	192570

TABLE - 25 (Contn.)

SYNTHETIC RUBBER

Year	Production	Import	Total	Consumption	Excess(+) / Deficiency(-) compared with demand	Stock at the end of the period
1965-66	14741	2735	17476	21553	- 4077	4875
1966-67	22358	5606	27964	23592	+ 4372	8819
1967-68	19942	3127	23069	23324	- 255	8358
1968-69	25868	2909	28777	27238	+ 1539	9751
1969-70	28689	4736	33425	30636	+ 2789	12548
1970-71	29791	5014	34805	33160	+ 1645	13994
1971-72	32911	5627	38538	37209	+ 1329	15323
1972-73	21832	6044	27876	33913	- 6037	9286
1973-74	23542	5609	29151	23921	+ 5230	14500
1974-75	17712	6939	24651	24376	+ 275	13878
1975-76	25119	6391	31510	32452	- 942	12445
1976-77	23212	7812	31024	34955	- 3931	9090
1977-78	27288	9835	37223	36150	+ 1073	10443
1978-79	28054	13309	41363	40470	+ 893	10700
1979-80	29524	17314	46838	43238	+ 3600	15200
1980-81	25293	17492	42785	47050	- 4265	10900
1981-82	28499	29659	58158	52650	+ 5508	16200
1982-83	30290	24394	54684	55250	- 566	15700
1983-84	32270	23287	55557	62300	- 6743	8980
1984-85	37669	30248	67917	65400	+ 2517	11650
1985-86	34758	39086	73844	70035	+ 3809	14470
1986-87	38816	32600	71416	71785	- 369	15100
1987-88	44468	30100	74568	76410	- 1842	13245
1988-89	54389	33950	88339	84150	+ 4189	17000
1989-90	53482	39000	92482	93550	- 1068	15500
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	134085	+ 5873	18760
1996-97	64563	91050	155613	142810	+ 12803	31560
1997-98	71993	86389	158382	160915	- 2533	29030
1998-99p	67590	102185	169775	156395	+ 13380	42410
1999-00p	60293	80039	140332	167220	- 26888	16270

TABLE - 26

STATEWISE CONSUMPTION OF ALL KINDS OF RUBBER

(Tonnes)

State/Union Territory	1970-71			1975-76			1980-81		
	Natural	Synthetic	Total	Natural	Synthetic	Total	Natural	Synthetic	Total
Andhra Pradesh	+	+	+	+	+	+	2223	250	186
Delhi	1856	199	2055	4168	591	4759	6311	1372	1071
Goa & Daman	+	+	+	3483	268	3751	2409	350	55
Gujarat	1192	161	1353	2138	447	2585	3034	560	583
Haryana	4475	2439	6914	11110	3109	14219	14974	4421	1548
Karnataka	631	609	1240	1598	953	2551	5770	1944	699
Kerala	6739	1798	8537	9268	1062	10330	19283	4673	2293
Maharashtra	19696	9897	29593	28400	10668	39068	33119	11678	5748
Punjab	2277	206	2483	5743	227	5970	13232	1565	2463
Rajasthan	+	+	+	+	+	+	5482	2448	59
Tamilnadu	17548	5966	23514	20900	4140	25040	17050	4961	2472
Uttar Pradesh	1160	153	1313	9672	1363	11035	22578	4601	2057
West Bengal	30988	11634	42622	27300	9090	36390	27414	7771	7571
Others	575	98	673	1590	534	2124	751	456	45
Total	87237	33160	120397	125692	32452	158144	173630	47050	26850

+ : 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 - 26(Contd.)

State/Union Territory	1985-86			1990-91			1993-94		
	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total	Total
Andhra Pradesh	4538	901	439	5878	8907	2594	1743	13244	23280
Bihar	+	+	+	+	+	+	+	+	1522
Delhi	10209	1654	552	12415	15613	3747	1804	21164	23693
Goa & Daman	4180	1683	162	6025	6214	1501	667	8382	12033
Gujarat	4962	780	293	6035	6889	1402	1021	9312	25437
Haryana	18780	7025	925	26730	22728	7106	1373	31207	39615
Karnataka	11670	5119	1912	18701	18978	6602	2267	25847	31555
Kerala	28341	5896	3375	37612	55365	15232	5015	75612	75882
Madhya Pradesh	920	297	24	1241	4120	1040	1151	6311	17070
Maharashtra	37351	14966	6550	58867	47219	21370	8729	77318	83029
Orissa	+	+	+	+	+	+	+	+	15355
Pondicherry	+	+	+	+	+	+	+	+	4976
Punjab	27172	3845	10637	41654	46158	3735	12917	62810	77120
Rajasthan	12259	3623	207	16089	17936	6932	567	25435	30034
Tamilnadu	19097	7340	3150	29587	21213	11254	4428	36895	38012
Uttar Pradesh	29458	6889	4523	40870	46795	11396	5870	64061	70396
West Bengal	27538	9091	5445	42074	42292	9635	4794	56721	55303
Others	965	926	21	1912	5883	1189	154	7226	2673
Total	237440	70035	38215	345690	364310	104735	52500	521545	626985
					450480	113395	63110	626985	

TABLE E - 26 (Contn.)

State/Union Territory	1994-95				1995-96				1996-97			
	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total	Natural	Synthetic	Reclaimed	Total
Andhra Pradesh	18321	6121	2382	27424	19015	6573	3115	28703	18728	7416	3302	29446
Bihar	1019	264	196	1479	1151	341	206	1698	1250	454	191	1895
Delhi	18719	2581	1848	23148	19819	2749	1868	24436	17981	2811	1689	22281
Goa & Daman	8908	2311	368	11587	11689	2606	530	14825	22682	3007	485	26174
Gujarat	21833	3690	1709	27232	24245	4058	1715	30018	30230	5181	1752	37163
Haryana	29022	7481	1806	38309	31194	8270	1775	41239	31526	8165	1805	41496
Karnataka	22332	7200	4292	33824	24285	7294	4324	35903	23268	7482	4541	35291
Kerala	64660	18984	6100	89744	75200	22727	6232	104159	67144	24575	5968	97687
Madhya Pradesh	14733	2504	1998	19235	19183	3124	2045	24352	20914	3967	1816	26697
Maharashtra	58618	22947	9952	91517	62840	24899	9673	97412	62608	24675	9434	96717
Orissa	12673	4138	222	17033	16893	4141	430	21464	18137	4378	405	22920
Pondicherry	1562	609	40	2211	3067	816	42	3925	3081	887	40	4008
Punjab	58008	5515	15128	78651	62028	5993	15230	83251	68750	6793	16591	92134
Rajasthan	24957	6526	498	32021	22249	6056	546	28851	30079	7993	592	38664
Tamilnadu	25682	10602	4779	41263	25644	10657	4793	41294	37884	12019	4890	54793
Uttar Pradesh	62120	12550	7435	82105	65134	14265	7891	87290	63860	13977	7627	85464
West Bengal	41168	8627	5272	55067	39908	9449	5314	54671	42105	9153	5407	56665
Others	1275	60	30	1365	1721	67	46	1834	1538	77	50	1665
Total	485890	122710	64655	673215	525465	134085	65775	725325	561765	142910	66585	771160

TABLE - 27

VALUE OF RUBBER IMPORTED FROM VARIOUS COUNTRIES

(000 Rs)

Natural Rubber										
Country	1975-76	1980-81	1982-83	1984-85	1986-87	1988-89	1990-91	1991-92		
Malaysia	..	35437	137357	271982	345150	822277	472748	123021		
Singapore	39	61252	52337	1983	10730	30174	164155	21929		
Sri Lanka	..	..	18189	6014	3418	11753	8867	32107		
U. S. A	12	587	55	237	264	10942	3409	1081		
Canada	488	117	..	..	..	..	..	..
U. K	70	186	9	31	26	4499	1153	1		
Germany(FR)	..	96	164	9	1472	2360	..	..
France	546	38	318	968	2237	11779	3235	..		
Belgium	1039	110	76	..	..	208	..	..
Others	582	2409	49046	48843	78163	49394	108724	117299		
Total	2776	100046	258728	330077	441460	943386	762291	295438		

Natural Rubber										
Country	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00P		
Thailand	218084	259636	84153	908974	331804	524961	371530	255025		
Malaysia	133422	167271	125420	1141140	325100	423509	199578	89712		
Singapore	7000	15365	12348	317905	82858	26832	84364	33796		
Sri Lanka	91844	103048	7205	214590	216554	87125	41458	48434		
U. S. A	641	..	304	17276	4705	408	15918	20664		
Canada	..	..	..	7117	..	25	..	3593		
U. K	158	..	..	4539	..	29	..	17		
Germany(FR)	28	..	2	11565	..	38	9845	1155		
France	..	..	2675	7155	..	..	3578	485		
Belgium	..	..	3487	..	..	..	..	..
Others	15280	3269	40009	152875	43350	153692	185391	142199		
Total	466457	548809	272116	2784423	1004372	1216619	911662	592480		

TABLE - 27(Contn.)

Synthetic and Reclaimed Rubber*

(000 Rs)

Country	1975-76	1980-81	1982-83	1984-85	1986-87	1988-89	1990-91	1991-92
U.S.A	8584	53923	68064	58432	35621	90787	169848	123707
Canada	6324	10502	92	17438	44866	3318	14845	14896
Germany(FR)	6184	15050	13482	50265	40634	45047	103365	119447
U. K	1259	2459	6242	8905	18423	48010	57240	40868
France	4801	12116	29244	50292	50328	37831	147074	156016
Netherlands	728	997	9792	2401	2902	7204	21230	22291
Belgium	26272	38268	79912	70462	68287	143936	280916	237114
Japan	10744	42232	123514	202354	270249	300382	443534	582715
Others	166	13787	50248	81649	101872	109204	258998	232091
Total	65162	189334	390590	542198	633182	785719	1497050	1523745

Country	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
U.S.A	238822	217630	194740	342214	379582	337586	238748	315728
Canada	117143	71829	49011	142302	149857	286420	387987	459906
Germany(FR)	189774	173442	300791	315298	356867	320315	309669	465378
U. K	44267	82534	82574	70279	125816	163121	145889	222950
France	218208	308474	519020	673397	944163	827480	575273	585193
Netherlands	24557	11774	12488	23384	41510	36726	38747	99147
Belgium	269887	308577	464586	290710	522586	132436	36594	52310
Japan	675105	1166497	1152812	1387977	1365998	1268458	1372838	967889
Others	362392	530076	667196	1164116	1418305	1384464	2100043	2017683
Total	2140155	2870833	3443218	4409677	5304694	4757006	5205768	5186194

* including waste and scrap of unhardened rubber

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

TABLE-28

PRICE OF UNGRADED NATURAL RUBBER

(Rs. per 100 kg. in Kottayam market)

Month	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
April	1802	1714	1839	2170	1994	2327	2469	2514	5350	4897	3842	2495	2585
May	1797	1721	1978	2195	2014	2417	2532	2645	5998	4964	4110	2665	2976
June	1725	1693	2233	2349	2005	2541	2618	2685	5729	5051	3973	2976	3119
July	1799	1726	2410	2133	2009	2428	2567	2862	4793	4783	3621	2698	2983
August	1730	1776	2309	1880	2018	2465	2511	3112	3962	4653	3903	2755	2822
September	1705	1838	1942	2013	1959	2547	2375	3517	4064	4617	3549	2757	2660
October	1697	1825	1844	1894	1916	2589	2271	3350	4153	4529	3284	2941	2723
November	1643	1699	1823	1888	1862	2332	2199	3033	4219	4338	3103	2792	2751
December	1636	1674	1943	1885	1903	2225	2311	3574	5243	4272	2575	2575	2627
January	1735	1699	2115	1947	1898	2256	2414	3894	5124	4224	2566	2465	2749
February	1714	1764	2103	1968	1912	2469	2470	4501	5068	4057	2453	2427	2751
March	1731	1809	2146	1954	2194	2442	2508	5042	4865	3991	2541	2519	2831
Average	1726	1745	2057	2023	1975	2420	2437	3396	4874	4531	3292	2669	2798

TABLE - 29

PRICE OF DIFFERENT GRADES OF NATURAL RUBBER

(Rs. per 100 Kg. in Kottayam Market)

Month		RMA 1	RMA 2	RMA 3	RMA 4	RMA 5	EBC 2X	LATEX (60% drc)	ISNR 20
April	1988	1900	1840	1800	1762	1735	1460	2872	1739
May	"	1900	1845	1800	1776	1750	1475	2893	1751
June	"	1895	1842	1800	1786	1725	1485	2900	1736
July	"	1930	1885	1850	1828	1755	1510	3000	1762
August	"	1990	1940	1920	1894	1826	1545	3025	1821
September	"	2006	1972	1939	1904	1862	1590	3160	1880
October	"	1990	1958	1925	1902	1856	1593	3315	1880
November	"	1903	1868	1827	1792	1699	1510	3320	1747
December	"	1885	1845	1791	1757	1674	1492	3211	1720
January	1989	1873	1833	1781	1755	1699	1465	3232	1746
February	"	1868	1834	1809	1789	1764	1490	3239	1806
March	"	1889	1875	1855	1834	1809	1545	3207	1860
Average		1919	1878	1841	1815	1763	1513	3114	1787
April	1989	1920	1904	1884	1858	1839	1570	3056	1885
May	"	2150	2095	2050	2020	1978	1655	3079	2019
June	"	2402	2349	2319	2284	2233	1922	3061	2265
July	"	2658	2620	2575	2538	2410	2221	3551	2450
August	"	2632	2599	2545	2509	2309	2199	3633	2330
September	"	2085	2065	2055	2047	1942	1950	3211	1995
October	"	2050	1975	1920	1902	1844	1795	3008	1912
November	"	2131	2044	1982	1933	1823	1753	3005	1885
December	"	2190	2125	2048	2007	1943	1804	2968	2015
January	1990	2308	2258	2234	2163	2115	1969	3113	2155
February	"	2308	2265	2212	2135	2103	1988	3129	2117
March	"	2334	2297	2246	2175	2146	2017	3181	2125
Average		2264	2216	2173	2131	2057	1904	3166	2096
April	1990	2356	2301	2264	2213	2170	2048	3281	2165
May	"	2375	2328	2300	2266	2195	2143	3466	2180
June	"	2575	2535	2515	2408	2349	2296	4176	2319
July	"	2428	2360	2338	2282	2133	2195	4412	2220
August	"	2200	2150	2078	2027	1880	1913	4456	1915
September	"	2267	2217	2155	2104	2013	1945	4431	1900
October	"	2210	2138	2070	2025	1938	1870	4689	1893
November	"	2103	2057	2030	1980	1920	1771	4747	1895
December	"	2119	2066	2031	1981	1916	1730	4471	1925
January	1991	2190	2142	2108	2047	1988	1729	4191	1960
February	"	2242	2207	2146	2096	2024	1773	4085	1972
March	"	2245	2204	2143	2114	2027	1799	4120	1985
Average		2276	2225	2182	2129	2046	1934	4210	2027

TABLE -29(Contd.)

Month		RMA 1	RMA 2	RMA 3	RMA 4	RMA 5	EBC 2X	LATEX	ISNR 20
		(60% drc)							
April	1991	2247	2203	2154	2113	2042	1826	4183	1980
May	"	2206	2181	2145	2115	2075	1804	4147	2015
June	"	2213	2183	2136	2115	2061	1841	4227	2030
July	"	2318	2273	2227	2166	2079	1849	4335	2005
August	"	2431	2384	2335	2285	2188	1853	4329	2020
September	"	2363	2305	2239	2174	2107	1810	3994	2002
October	"	2310	2250	2173	2115	2015	1700	3625	1925
November	"	2300	2240	2143	2112	2037	1650	3316	1910
December	"	2209	2158	2103	2083	2040	1639	3053	1930
January	1992	2220	2142	2097	2075	2040	1603	2993	1957
February	"	2211	2161	2099	2069	2040	1605	3052	1950
March	"	2394	2341	2300	2268	2245	1706	2996	2139
Average		2285	2235	2179	2141	2081	1741	3688	1989
April	1992	2472	2441	2415	2397	2333	1953	3201	2354
May	"	2642	2595	2525	2470	2453	2033	4167	2423
June	"	2840	2778	2723	2680	NT	2254	4447	2628
July	"	2691	2660	2598	2542	2453	2155	4075	2464
August	"	2704	2671	2619	2577	2479	2159	3642	2510
September	"	2927	2849	2813	2764	2589	2184	3526	2576
October	"	2988	2906	2855	2793	2639	2212	4104	2648
November	"	2856	2754	2710	2583	2403	2090	4271	2458
December	"	2635	2585	2451	2332	2263	1967	4312	2278
January	1993	2624	2538	2410	2363	2298	2007	4332	2320
February	"	2735	2666	2613	2562	2508	2255	4530	2466
March	"	2750	2668	2656	2534	2488	2178	4540	2486
Average		2739	2676	2616	2550	2446	2121	4096	2468
April	1993	2764	2686	2608	2552	2514	2220	4340	2485
May	"	2831	2731	2664	2606	2564	2278	4340	2522
June	"	2970	2885	2800	2737	2688	2346	4664	2647
July	"	2906	2813	2738	2681	2606	2365	4581	2586
August	"	2894	2794	2733	2668	2593	2380	4459	2568
September	"	2795	2695	2625	2564	2448	2319	4470	2437
October	"	2643	2543	2468	2390	2327	2175	4456	2342
November	"	2655	2555	2479	2412	2308	2095	4397	2239
December	"	2725	2625	2550	2484	2349	2103	4304	2331
January	1994	2765	2665	2593	2548	2454	2201	4314	2416
February	"	2838	2738	2688	2593	2553	2310	4399	2542
March	"	2844	2744	2694	2599	2545	2247	4349	2540
Average		2803	2706	2637	2569	2496	2253	4423	2472

TABLE -29(Contd.)

Month		RMA 1	RMA 2	RMA 3	RMA 4	RMA 5	EBC 2X	LATEX (60% drc)	ISNR 20
April	1994	2855	2755	2705	2621	2577	2253	4250	2550
May	"	2967	2838	2775	2749	2674	2358	4365	2661
June	"	3115	3050	2940	2851	2751	2442	4440	2729
July	"	3175	3095	NT	3014	2949	2577	4376	2871
August	"	3950	3800	3793	3559	3289	2732	4469	3074
September	"	4508	4363	4300	4148	3888	2810	4655	3474
October	"	3831	3550	3475	3548	3411	2883	5100	3489
November	"	3657	3405	3228	3219	3172	2902	4922	3127
December	"	4275	4175	4075	3841	3768	3213	5000	3515
January	1995	4688	4600	4467	4273	4088	3801	5680	3913
February	"	5104	5040	4777	4637	4545	4274	6333	4680
March	"	5486	5474	5297	5195	5091	4871	7143	5087
Average		3968	3845	3803	3638	3517	3093	5061	3431
April	1995	5803	5650	5605	5441	5415	5269	7690	5477
May	"	6633	NT	NT	6047	5966	5683	8420	5889
June	"	6674	NT	NT	6171	5797	5677	9197	5801
July	"	5768	NT	NT	5231	5065	4974	8293	4960
August	"	4921	NT	NT	4295	4116	3815	6558	3758
September	"	4800	4500	4225	4197	4121	3681	6476	3939
October	"	5354	NT	NT	4694	4350	3934	7550	4110
November	"	5493	5350	NT	4925	4461	4146	8038	4176
December	"	6082	NT	NT	5598	5390	4852	8902	5140
January	1996	6171	5880	5800	5588	5347	5063	8456	5350
February	"	5788	5500	5400	5249	5148	4846	7509	5123
March	"	5613	5500	5300	5006	4948	4775	7090	4990
Average		5758	5397	5266	5204	5010	4726	7848	4893
April	1996	5566	NT	5250	5005	4970	4747	6852	4925
May	"	5583	5350	NT	5252	5066	4914	7047	5020
June	"	5935	5650	NT	5385	5243	5062	7623	5285
July	"	5675	5450	NT	5125	5004	4876	6718	4940
August	"	5549	5200	NT	5033	4920	4738	6270	4695
September	"	5472	5350	NT	5060	4814	4585	6229	4700
October	"	5467	5380	5200	5112	4773	4397	6429	4570
November	"	5358	5200	NT	4898	4624	4248	6218	4262
December	"	5203	5125	5000	4752	4466	3951	5841	4128
January	1997	5219	NT	NT	4699	4424	3909	5750	4300
February	"	4840	4520	NT	4286	4202	3822	5295	4078
March	"	4703	4650	4600	4199	4135	3799	4783	4038
Average		5381	5188	5013	4901	4720	4421	6255	4578

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

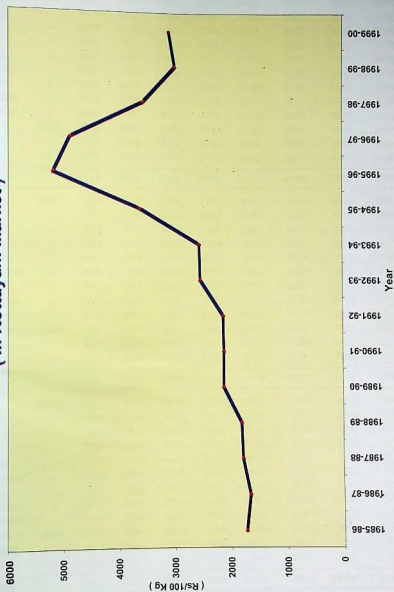




TABLE -29(Contd.)

Month		RSS 1	RSS 2	RSS 3	RSS 4	RSS 5	EBC 2X	LATEX	ISNR 20 (60% drc)
April	1997	4609	4528	4319	3980	3935	3661	4983	3880
May	"	4977	4758	4699	4483	4246	3952	4830	4130
June	"	4825	4600	4475	4224	4104	4003	5590	4185
July	"	4613	NT	4020	3937	3785	3746	5455	3778
August	"	4812	4668	4496	4298	4075	3896	5498	4093
September	"	4541	NT	4102	3892	3758	3422	5667	3705
October	"	4100	3811	3637	3495	3410	3170	5720	3250
November	"	3925	3750	3473	3389	3290	3017	5756	3146
December	"	3410	NT	3088	2970	2790	2594	5660	2640
January	1998	3356	3225	2938	2890	2749	2546	5265	2644
February	"	3115	3000	2808	2700	2584	2460	5102	2602
March	"	3100	3000	2750	2700	2616	2468	5105	2593
Average		4115	3927	3734	3580	3445	3245	5386	3387
April	1998	3068	2894	2729	2653	2588	2457	4905	2617
May	"	3500	3400	2961	2892	2755	2581	5000	2685
June	"	3925	3713	3613	3457	3202	3012	5386	3185
July	"	3854	3700	3476	3314	3090	2904	5326	3079
August	"	3642	3479	3214	3022	2898	2778	4740	2860
September	"	3536	3377	3108	2935	2844	2656	4523	2750
October	"	3840	3621	3421	3338	3112	2837	4715	2941
November	"	3781	3600	3404	3289	3113	2792	4485	2766
December	"	3513	3213	3098	2968	2856	2487	3991	2577
January	1999	3451	3224	2948	2695	2608	2406	3493	2531
February	"	3263	3067	2788	2625	2536	2388	3415	2505
March	"	3261	3050	2872	2737	2672	2478	3331	2607
Average		3553	3362	3136	2994	2856	2648	4443	2759
April	1999	3312	3124	2995	2818	2713	2528	3312	2680
May	"	3623	3512	3335	3190	3078	2866	3382	3015
June	"	4102	3918	3704	3408	3242	3162	4500	3205
July	"	3794	3667	3524	3360	3189	3070	4398	3113
August	"	3744	3628	3520	3318	3128	2917	3859	3114
September	"	3408	3265	3135	2951	2863	2762	3897	2810
October	"	3350	3250	3127	2958	2833	2675	3906	2758
November	"	3381	3281	3160	3036	2869	2823	4185	2831
December	"	3268	3168	3001	2865	2730	2697	4030	2710
January	2000	3489	3389	3228	3099	2905	2873	4020	2916
February	"	3529	3429	3278	3133	2972	2893	4508	2950
March	"	3454	3354	3254	3049	2943	2874	5087	2943
Average		3538	3415	3272	3099	2955	2845	4091	2920

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.

NT - No Transaction.

TABLE - 30

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
1963-64	417	371		----
1964-65	392	343	565	----
1965-66	385	340	565	----
1966-67	424	379	604	----
1967-68	445	400	641	----
1968-69	515	465	680	----
1969-70	493	443	680	----
1970-71	440	390	680	----
1971-72	440	390	680	----
1972-73	440	390	680	----
1973-74	427	377	614	----
1974-75	902	732	1226	----
1975-76	779	720	1370	----
1976-77	813	763	1378	----
1977-78	855	805	1420	----
1978-79	909	858	1440	853
1979-80	1222	1134	1732	976
1980-81	1507	1317	2019	1224
1981-82	1729	1542	2130	1414
1982-83	1833	1634	2210	1477
1983-84	1853	1651	2226	1477
1984-85	2086	1808	2382	1698
1985-86	2350	2110	2736	1928
1986-87	2517	2285	2915	2072
1987-88	2600	2380	3107	2180
1988-89	2886	2654	3368	2246
1989-90	3280	2820	3690	2505
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

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

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

TABLE - 31

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

(Consumption in tonnes)									
1970-71					1975-76				
Consumption Group	No. of Manufacturers	CONSUMPTION			No. of Manufacturers	CONSUMPTION			Total
		Natural	Synthetic	Reclaimed		Natural	Synthetic	Reclaimed	
A	847	2168	445	173	1097	5133	671	486	6290
B	280	5862	1210	415	503	12127	1819	1030	14976
C	62	3407	1173	399	135	9178	1597	628	11403
D	68	9577	3270	1666	84	13425	3646	2168	19239
E	13	6138	1802	1953	10	4830	824	1450	7104
F	11	60085	25260	9742	15	80999	23895	13580	118474
Total	1281	87237	33160	14348	1844	125692	32452	19342	177486

Consumption Group	No. of Manufacturers	1980-81				No. of Manufacturers	1985-86				Total
		CONSUMPTION					CONSUMPTION				
		Natural	Synthetic	Reclaimed	Total		Natural	Synthetic	Reclaimed	Total	
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	2801	2431	15276	241	14356	4851	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	212877	
Total	2826	173630	47050	26850	247530	3769	237440	70035	38215	345690	

Note : Regarding Consumption Group, see page 51.

TABLE - 31(Contn.)

Consumption Group	No. of Manufacturers	1990-91 CONSUMPTION			No. of Manufacturers	1993-94 CONSUMPTION			Total
		Natural	Synthetic	Reclaimed		Natural	Synthetic	Reclaimed	
A	2886	11023	3189	1625	15847	12870	2374	1739	16983
B	1639	38447	11043	5724	55214	45384	8679	6593	60656
C	335	19062	5810	3503	28375	29091	6684	5488	41243
D	291	56480	18640	10570	85700	60373	20504	19139	100016
E	34	18892	4731	1840	25463	27591	5350	3384	36325
F	43	220396	61312	29238	310946	44	69824	26767	371762
Total	5028	364310	104735	52500	521545	5346	450480	113395	626985

Consumption Group	No. of Manufacturers	1994-95 CONSUMPTION			No. of Manufacturers	1995-96 CONSUMPTION			Total
		Natural	Synthetic	Reclaimed		Natural	Synthetic	Reclaimed	
A	2260	10489	2151	1468	14108	2421	13025	2400	17141
B	2155	45569	8474	6773	60816	2184	50100	9578	66754
C	480	30269	5939	5608	41816	489	32485	6763	45053
D	418	62427	21910	19636	103973	380	70324	23782	113843
E	49	27564	4695	3484	35743	51	29005	4275	37011
F	46	309532	79541	27686	416759	47	330526	87287	445523
Total	5408	485850	122710	64655	673215	5572	525465	134085	725325

Note:-Regarding Consumption Group, see page 51.

TABLE - 31(Continued)

TABLE - 31(Contin.)										
1996-97					1997-98					
Consumption Group	No. of Manufacturers	CONSUMPTION			No. of Manufacturers	CONSUMPTION			Total	
		Natural	Synthetic	Reclaimed		Natural	Synthetic	Reclaimed		
A	2412	13713	2693	1538	17944	2406	14103	3332	1684	19119
B	2206	56118	10864	7089	74071	2211	57718	13440	7759	78917
C	504	33495	7013	5810	46318	509	34224	8676	5909	48809
D	368	77442	24962	18391	120795	370	79649	30881	20129	130659
E	49	25135	5158	3381	33674	51	28272	5786	3089	37147
F	49	355862	92120	30376	479358	48	357854	98900	31515	488169
Total	5588	561765	142810	66585	771160	5595	571820	160915	70085	802820

Consumption Group	No. of Manufacturers	1998-99			No. of Manufacturers	1999-00			
		CONSUMPTION				CONSUMPTION			
		Natural	Synthetic	Reclaimed		Natural	Synthetic	Reclaimed	
A	2365	13925	2681	1532	2088	11451	2184	1121	14756
B	2132	60224	10076	5392	2182	61920	10896	5831	78647
C	505	34391	8262	5583	523	35424	8510	5751	49685
D	387	90147	26920	16689	403	91163	29678	17627	138468
E	54	30573	6510	1485	47	25881	5748	1995	33624
F	51	362285	101946	32414	60	402271	110204	31125	543600
Total	5494	591545	156395	63095	5303	628110	167220	63450	858780

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.

TABLE-32

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

State/ Union Territory	1975-76	1980-81	1985-86	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
Kerala	221	391	599	816	893	909	891	880	947	994	1021	1026	974
Maharashtra	280	373	468	569	581	585	592	612	613	627	629	617	623
Punjab*	183	339	371	538	543	563	573	583	623	608	611	593	552
Tamil Nadu	111	212	326	491	524	549	561	546	537	533	545	523	506
West Bengal	301	351	413	494	501	498	516	518	512	531	508	506	484
Uttar Pradesh	163	249	352	504	502	492	485	473	486	465	475	464	395
Gujarat	134	191	262	304	337	344	361	404	414	427	432	422	297
Delhi	178	274	326	377	366	370	360	372	358	333	309	306	297
Haryana	114	181	213	252	262	247	265	282	305	298	313	315	311
Karnataka	51	90	162	221	237	241	249	245	253	252	258	249	249
Andhra Pradesh	42	80	107	158	192	177	172	170	174	173	161	157	140
Madhya Pradesh	15	24	46	85	81	94	98	84	96	92	91	91	91
Rajasthan	16	19	44	66	73	82	86	92	105	105	98	93	92
Bihar	25	29	30	47	45	41	40	40	37	38	34	33	33
Goa	5	6	12	24	23	24	19	17	19	20	31	24	28
Orissa	2	10	17	19	18	16	17	16	17	17	16	16	16
Himachal Pradesh	--	3	9	12	9	12	11	14	13	12	8	7	8
Assam	2	2	3	3	5	5	3	4	4	4	6	6	5
Others	1	2	9	48	57	33	47	56	59	59	49	46	49
Total	1844	2826	3769	5028	5249	5302	5346	5408	5572	5588	5595	5494	5303

* Includes Chandigarh.

Chart 8
NUMBER OF RUBBER GOODS MANUFACTURERS

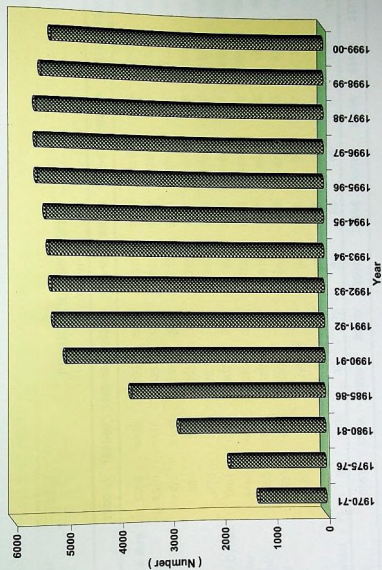


TABLE-33

PRODUCTION OF TYRES

('000 nos)

Year	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
Truck & Bus	5258	5498	6269	6591	7309	7620	8015	7979	7835	8794
Tractor	1349	1415	1625	1797	2020	2237	1989	1977	2037	2258
Car	2472	2100	2304	2844	3219	3260	3813	4180	4156	4657
Jeep	596	508	603	632	765	865	1077	1316	1222	1234
LCV	870	746	902	1096	1116	1166	1798	1830	1826	1868
Motor Cycles	1961	1780	1907	2804	3187	3540	4166	5217	6865	8065
Scooter	4466	4482	4590	5254	7035	7883	7698	7662	8642	7800
Moped	555	699	1122	551	618	667	636	308	180	397
A.D.V	469	602	550	567	584	518	477	410	475	436
OTR	32	31	39	37	39	36	30	37	37	36
Aero	15	8	8	14	18	7	0	0	0	0
Industrial	8	19	32	75	89	95	66	143	137	172
Total	18051	17888	19951	22262	25999	27894	29765	31059	33412	35717

Source: Automotive Tyre Manufacturers' Association, New Delhi.

TABLE-34

PRODUCTION OF TUBES

('000 nos)

Year	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
Truck & Bus	4237	4049	4181	4224	4533	4923	5961	6503	6781	7382
Tractor	826	904	890	816	755	995	953	1088	1221	1259
Car	2156	1851	1978	2382	2336	2604	3061	3518	3563	3949
Jeep	430	417	477	447	471	653	811	1153	1133	1046
LCV	693	670	743	764	741	969	1323	1422	1416	1614
Motor Cycles	1412	1249	1523	1824	2114	2574	3290	5272	6507	7771
Scooter	2215	1863	2034	2073	2908	4375	4526	5369	6903	5753
Moped	398	530	707	268	508	561	630	208	224	564
A.D.V	377	420	296	312	299	259	250	234	295	268
OTR	16	12	12	14	11	16	4	8	9	12
Aero	1	1	2	3	5	1	0	0	0	0
Industrial	7	13	27	31	39	30	24	42	29	33
Total	12768	11979	12870	13158	14720	17960	20833	24817	28081	29651

Source: Automotive Tyre Manufacturers' Association, New Delhi.

TABLE-35

PRODUCTION OF VEHICLES

(In numbers)

Year	Commercial vehicles	Tractors	Cars	Jeeps	Motor Cycles	Scooters	Three Wheelers	Mopeds	Total
1980-81	74174	70306	31275	15867	104223	212039	26930	124048	658662
1981-82	93365	82360	42475	17867	115304	223550	25801	207222	807944
1982-83	87758	62597	43558	20234	135810	264540	31881	232115	874893
1983-84	90069	74216	46901	21681	163290	276433	38575	339881	1051046
1984-85	96004	81821	70090	23208	187147	314748	43508	396053	1218579
1985-86	100452	73456	102804	27961	267107	461860	49947	461950	1545537
1986-87	99153	79073	125866	28784	302520	642038	54566	449688	1781688
1987-88	110100	88597	151875	32036	335679	589734	61112	511699	1808832
1988-89	116447	107183	165798	35754	429017	725305	79361	482001	2140866
1989-90	125051	117690	179278	44309	417401	874892	83752	439293	2281766
1990-91	144591	138538	181821	37369	470339	910315	89162	440092	2412227
1991-92	143171	148123	166389	31530	430786	768420	76750	406804	2711973
1992-93	128111	147827	163302	39176	384080	705870	65464	413353	2047283
1993-94	141476	137608	207558	48936	461955	833083	91524	460451	2383591
1994-95	194799	163059	264468	49675	647521	1030803	128895	516936	2996156
1995-96	259130	191311	347800	67643	809097	1225895	161679	623114	3685669
1996-97	237254	225525	407539	134594*	988709	1329328	221679	686666	4206894
1997-98	160964	256258	401002	134613*	1125958	1279549	234857	667242	4260453
1998-99	135891	252882	390709	113328*	1397286	1315055	209033	672167	4478351
1999-00	173521	241216	577243	124307*	1794078	1259423	205543	724510	5099841

* - Include multi-utility vehicles which was earlier included in LCV's.

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

TABLE-36

REGISTERED MOTOR VEHICLES IN INDIA

(In '000 numbers)

Year	Two wheelers	Cars, Jeeps & taxis	Buses	Trucks	**Others	Total
1974-75	946	766	114	335	311	2472
1975-76	1057	779	115	351	398	2700
1976-77	1415	878	119	383	465	3260
1977-78	1618	919	124	403	550	3614
1978-79	1888	996	133	444	588	4059
1979-80	2117	1059	140	478	732	4526
1980-81	2618	1160	162	554	897	5391
1981-82	3065	1243	173	613	981	6055
1982-83	3654	1385	185	675	1074	6973
1983-84	4351	1455	199	742	1202	7949
1984-85	5179	1607	223	822	1339	9170
1985-86	6245	1760	227	863	1462	10577
1986-87	7739	2007	245	984	1643	12618
1987-88	9300	2295	269	1114	1840	14818
1988-89	10965	2486	278	1179	2012	16920
1989-90	12611	2694	298	1238	2311	19152
1990-91	14200	2954	331	1356	2533	21374
1991-92	15661	3205	358	1514	2769	23507
1992-93	17183	3361	364	1603	2894	25505
1993-94	18899	3569	392	1691	3109	27660
1994-95	20831	3841	423	1794	3406	30295
1995-96	23252	4204	449	2081	3847*	33783
1996-97	25693	4662	488	2260	4128*	37231
1997-98E	27919	5088	506	2413	4526	40452
1999-00E	33321	6314	540	2581	5245	48001

1998-99 figures not available, E- Estimated by ACMA.

* :- Excludes light commercial vehicles, which is included in trucks, ** :- Others include Tractors, Trailers and Three wheelers.
Source: Automotive Component Manufacturers' Association of India (ACMA), New Delhi.

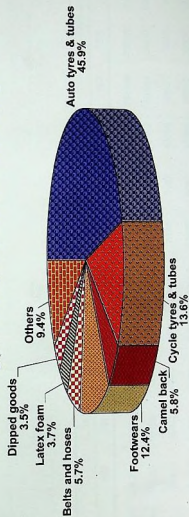
CONSUMPTION OF ALL KINDS OF RUBBER ACCORDING TO END PRODUCTS

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

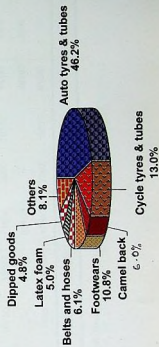
TABLE-37(Contd.)

Products	1990-91				1995-96				1996-97			
	NR	SR	RR	Total	NR	SR	RR	Total	NR	SR	RR	Total
1. Auto tyres & tubes*	161578	52935	7607	222120	245654	74926	8859	329439	265580	79333	8754	353667
2. Cycle tyres & tubes	50180	10929	16344	77453	66358	11778	21519	99655	70709	12849	22139	105697
3. Camel back	25440	5414	3498	34352	32316	6503	4002	42821	33824	7073	4101	44998
4. Footwears	37574	19251	6819	63644	52003	23541	8513	84057	56683	25356	8697	90736
5. Belts and hoses	25583	7194	3610	36387	35838	7107	4519	47464	38768	7468	4545	50781
6. Latex foam	19598	--	--	19598	28633	--	--	28633	27745	--	--	27745
7. Cables and wires	1252	1154	590	2996	1494	1372	862	3728	1565	1423	878	3866
8. Battery boxes	1265	2038	8235	11538	1784	2387	10318	14489	1852	2363	10280	14475
9. Dipped goods	15578	--	--	15578	24947	--	--	24947	24574	--	--	24574
0. Others	26262	5820	5797	37879	36438	6471	7183	50092	40465	6945	7211	54621
Total	364310	104735	52500	521545	525465	134085	65775	725325	561765	142810	66585	771160

Chart 9
TOTAL RUBBER CONSUMPTION
according to end products - 1999-2000



CONSUMPTION OF NR ALONE



1948
of the first report

1949
second report

1950
third report

1951
fourth report

1952
fifth report

1953
sixth report

1954
seventh report

CONSTITUTION OF KU WONG

1955
eighth report

1956
ninth report

1957
tenth report

1958
eleventh report

1959
twelfth report

1960
thirteenth report

1961
fourteenth report

1962
fifteenth report

1963
sixteenth report - 1963-1964

1964
seventeenth report

TABLE-38

VALUE OF RUBBER PRODUCTS EXPORTED

(Value in million Rs.)

Products	1970-71	1975-76	1980-81	1985-86	1990-91	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00*
1. Automobile tyres and tubes including tyre retreading materials	55.38	85.14	131.53	470.00	1826.00	6061.87	6801.90	7176.80	7944.2	9043.9	8109.7	8500
2. Beltings	1.64	8.88	42.80	395.00	241.00	345.19	277.30	369.40	578.8	539.8	685.0	740
3. Cycle tyres and tubes	4.37	9.89	25.88	10.00	120.00	708.13	656.00	807.40	711.8	740.8	1082.9	900
4. Hoses	1.88	2.73	8.23	65.00	77.00	68.12	68.50	71.20	88.5	90.7	168.1	200
5. Hygienic, medical & surgical articles including gloves	6.18	2.40	20.94	7.07	139.00	631.34	810.00	1288.30	1477.2	1338.8	1578.3	1530
6. Rubber footwear	1.59	1.36	3.66	5.00	7.50	41.69	34.50	84.30	90.9	103.2	--	--
7. Rubber-soled footwear with canvas upper	21.57	21.74	41.77	45.00	112.00	176.84	151.90	134.20	175.5	312.5	747.8*	1635*
8. Rubber coats & aprons for textile industry	1.46	0.85	3.94	7.10	11.00	34.03	47.60	52.30	59.8	83.4	92.6	100
9. Rubber sheetings	0.47	0.80	0.63	5.00	7.20	415.62	94.30	147.70	172.9	227.6	354.1	420
10. Others	2.42	11.54	34.22	60.83	89.80	379.25	487.50	821.30	951.7	929.3	1518.4	1700
Total	96.96	145.33	313.60	1070.00	2630.50	8862.08	9429.50	10952.90	12251.4	13410.0	14336.9	15725

e- estimate, * - including rubber footwear.

Source : CAPEXIL (Formerly known as Chemicals and Allied Products Export Promotion Council).

Chart 10
VALUE OF RUBBER PRODUCTS EXPORTED

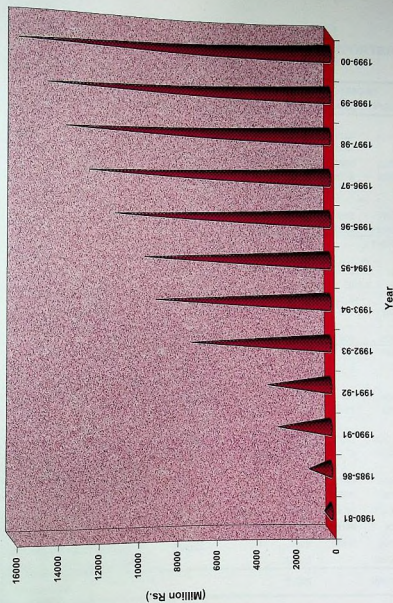


TABLE-39(Contn.)

Products	Unit	1984-85		1986-87	
		Quantity	Value	Quantity	Value
1. TYRES					
Aircraft	Nos.	153	670	102	837
Cycle	"	--	--	--	--
Motor car, Truck & Bus	"	2207	4552	2610	16657
Tractor and other OTR	"	135	1831	307	6465
Motor cycles & Scooters	"	1	1	--	--
Solid/Cushion tyres					
Interchangeable tyre treads	Tonnes	19	660	255	8935
Others	Nos.	3386	4397	2917	8675
Total			12111		41569
2. TUBES					
Aircraft	Nos.	--	--	--	--
Cycle	"	--	--	--	--
Motor car, Truck and Bus	"	--	--	115	262
Tractor and other OTR	"	--	--	--	--
Motor cycle	"	--	--	--	--
Others	"	417	95	--	--
Total			95		262
3. FLAPS	Nos.	69	152	7	44
4. HYGIENIC & PHARMACEUTICALS					
Contraceptives	Million Nos.	3	985	5	2980
Others	Nos.	108012	8648	71045	9659
5. BELTING					
Conveyor	Tonnes	162	70729	365	26743
Others	"	91	23444	970	78941
6. TEXTILE FABRICS COATED WITH RUBBER, LEATHER etc.	Kg.	273778	24140	530316	43180
7. LATEX FOAM SPONGE	"	11577	879	35216	1045
8. HOSES	"	771843	74851	650151	69515
9. EBONITE	"	25663	1965	49618	1242
10. OTHER VULCANISED SHEETS	Tonnes	--	--	112	4525
11. OTHER ARTICLES OF RUBBER			195347		343789
Grand Total			413346		623494

TABLE-39(Contn.)

Products	Unit	1988-89		1990-91	
		Quantity	Value	Quantity	Value
1. TYRES					
Cycle	"	--	--	--	--
Motor car, Truck & Bus	"	3717	15619	6879	24522
Tractor and other OTR	"	257	7060	524	28941
Motor cycles & Scooters	"	--	--	--	--
Solid/Cushion tyres					
Interchangeable tyre treads	Tonnes	344	5016	--	--
Others	Nos.	9573	25854	3865	57248
Total			63021		129477
2. TUBES					
Aircraft	Nos.	--	--	7	14
Cycle	"	--	--	--	--
Motor car, Truck and Bus	"	750	35	8	11
Tractor and other OTR	"	--	--	--	--
Motor cycle	"	--	--	--	--
Others	"	347	247	696	364
Total			282		389
3. FLAPS					
	Nos.	--	--	85	11
4. HYGIENIC & PHARMACEUTICALS					
Contraceptives	Million Nos.	105	61048	74	53463
Others	Nos.	68639	7743	14547	4606
5. BELTING					
Conveyor	Tonnes	229	36926	36	7566
Others	"	189	34212	235	71283
6. TEXTILE FABRICS COATED WITH RUBBER, LEATHER etc.					
	Kg.	4971	1766	6903	1344
7. LATEX FOAM SPONGE					
	"	66	13	3820	472
8. HOSES					
	"	131080	46277	368069	66115
9. EBONITE					
	"	13039	2680	300	158
10. OTHER VULCANISED SHEETS					
	Tonnes	186156	17195	--	--
11. OTHER ARTICLES OF RUBBER					
			248430		657356
Grand Total			519593		992240

TABLE-39(Contn.)

Products	Unit	1992-93		1994-95		1995-96	
		Quantity	Value	Quantity	Value	Quantity	Value
1. TYRES							
Aircraft	Nos.	658	9252	1638	22474	2095	32197
Cycle	"	616876	37802	236800	12385	276842	12638
Motor car, Truck & Bus	"	2975	7606	37721	39750	128111	169134
Tractor and other OTR	"	743	87967	1314	84402	1906	178087
Motor cycles & Scooters	"	2017	1890	10487	3633	24691	5460
Solid/Cushion tyres							
Interchangeable tyre treads	"	607	3643	543	7167	679	3956
Others	"	3415	95173	10921	108128	10790	160572
Total			243333		277939		562044
2. TUBES							
Aircraft	Nos.	--	--	55	85	3	5
Cycle	"	193650	4569	295547	6422	112890	3542
Motor car, Truck and Bus	"	111	56	39	11	120	68
Tractor and other OTR	"	8	19	12	7	89	487
Motor cycle	"	--	--	--	--	--	--
Others	"	741	361	1394	2429	4329	3839
Total			5005		8954		7941
3. FLAPS	Nos.	607	115	230	135	210	24
4. HYGIENIC & PHARMACEUTICALS							
Contraceptives	Million Nos	74	61031	46	40657	46	38360
Others	Nos.	1040058	2462	1103	346	2488345	5947
5. BELTING							
Conveyor	Tonnes	159	33424	255	47647	175	55777
Others	"	447	147212	483	216306	1105	382014
6. LATEX FOAM SPONGE	"	8	968	5	1680	6	1918
7. HOSES	"	81	23526	21	6473	65	24401
8. EBONITE	"	38	4880	64	3470	527	7797
9. VULCANISED RUBBER							
THREAD & CORD	"	903	60301	1429	108803	1179	118085
10. OTHER ARTICLES OF RUBBER			865947		1331878		2304147
Grand Total			1448204		2044268		3508455

TABLE-39(Contn.)

Products	Unit	1996-97		1997-98		1998-99	
		Quantity	Value	Quantity	Value	Quantity	Value
1. TYRES							
Aircraft	Nos.	2644	34090	2591	36022	1319	24382
Bicycles	"	310301	14701	161485	18485	202256	13985
Motor car, Truck & Bus	"	46781	101288	165668	234885	265599	277674
Tractor and other OTR	"	3452	337215	2881	333342	8830	293795
Motor cycles & Scooters	"	10469	4551	31944	11577	20126	10908
Solid/Cushion tyres							
Interchangeable tyre treads	Tonnes	27	8253	70	16959	57	15214
Others	Nos.	19904	140418	22162	160088	29544	258988
Total			640516		811358		894946
2. TUBES							
Aircraft	Nos.	11	16	29	92	252	2252
Bicycles	"	72650	1733	111164	2999	115751	3667
Motor car, Truck and Bus	"	40264	2703	30894	5733	19436	7407
Tractor and other OTR	"	6611	274	2013	1904	--	--
Motor cycle	"	--	--	9956	1042	8286	857
Others	"	18778	5655	30839	6336	57820	16645
Total			10381		18106		30828
3. FLAPS							
	Tonnes	11	4150	6	4380	13	2067
4. HYGIENIC & PHARMACEUTICALS							
Contraceptives	Tonnes	79	25878	95	27251	91	41955
Others	"	106	34701	97	31924	48	12487
5. BELTING							
Conveyor	"	624	151840	919	268816	466	219187
Others	"	90	251397	621	311897	896	421148
6. LATEX FOAM SPONGE							
	"	9	1400	2	328	97	9439
7. HOSES							
	"	58	14769	73	26300	84	35106
8. EBONITE							
	"	212	1446	180	1461	7	1013
9. VULCANISED RUBBER							
THREAD & CORD	"	529	62151	353	33347	647	50457
10. OTHER ARTICLES OF RUBBER							
			2144065		3017604		3781258
Grand Total			3342694		4552772		5499891

Source: "Monthly Statistics of Foreign Trade of India (Annual Number),
Published by DGCI&S, Government of India.

TABLE-40

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

State/Territory	1970-71	1975-76	1980-81	1985-86	1990-91	1992-93	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
Kerala	1566	1756	3041	3499	6439	6215	7181	8304	8866	9453	9320	9281
Tamil Nadu	31	75	230	140	192	192	211	214	212	223	220	223
Punjab*	25	39	63	68	123	144	197	217	218	214	189	182
Delhi	61	63	112	115	161	164	172	181	171	168	147	148
West Bengal	53	45	58	67	91	95	103	115	103	103	90	85
Uttar Pradesh	7	10	35	40	59	71	84	89	83	79	81	85
Maharashtra	39	30	66	62	77	65	85	90	97	102	103	106
Karnataka	1	8	15	22	51	61	85	104	113	124	117	117
Haryana	0	0	0	17	34	40	43	46	45	43	44	43
Tripura	0	0	5	2	12	24	57	79	107	138	138	125
Gujarat	3	7	8	6	21	25	25	28	28	34	34	36
Madhya Pradesh	0	1	1	0	3	8	12	14	15	12	8	7
Rajasthan	0	0	1	0	2	8	11	12	15	13	15	18
Assam	0	0	0	0	3	5	9	15	15	17	21	24
Andaman & Nicobar	0	0	0	2	5	6	5	8	8	9	8	8
Meghalaya	0	0	0	0	2	4	4	4	5	6	9	9
Bihar	0	0	1	1	3	3	2	4	6	6	6	7
Andhra Pradesh	1	1	4	2	0	2	5	4	2	3	1	2
Orissa	0	0	0	1	1	1	2	2	3	2	2	1
Goa, Daman & Diu	0	0	0	0	0	0	1	1	1	2	2	2
Jammu & Kashmir	0	0	0	0	1	1	1	1	1	1	1	1
Mizoram	0	0	0	0	0	0	0	0	0	0	0	0
Manipur	0	0	0	0	0	0	0	0	0	0	0	0
Himachal Pradesh	3	1	1	0	0	1	0	0	1	2	1	1
Pondicherry	0	0	0	0	0	0	0	1	2	2	2	2
Nagaland	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	1790	2036	3641	4044	7280	7135	8295	9533	10117	10756	10559	10514

* Including Chandigarh.

TABLE-41

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

District	1970-71	1975-76	1980-81	1985-86	1990-91	1992-93	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
Thiruvananthapuram	40	60	155	197	477	472	561	699	786	870	885	869
Kollam	272	344	532	329	771	742	856	964	1014	1110	1127	1135
Pathanamthitta	0	0	0	323	857	800	927	1106	1233	1256	1203	1148
Alappuzha	38	38	47	9	37	43	82	115	122	130	124	130
Kottayam	686	787	1306	1431	2033	1907	2094	2345	2467	2583	2543	2536
Idukki	0	86	155	239	324	318	404	434	457	473	452	458
Ernakulam	313	212	392	510	1005	912	1001	1188	1222	1295	1259	1252
Thrissur	17	19	26	30	84	101	121	152	147	162	155	162
Palakkad	11	17	38	47	113	144	197	235	280	314	328	323
Malappuram	16	42	64	88	226	231	275	320	369	415	410	415
Kozhikode	71	73	137	98	164	159	172	197	214	227	217	215
Wynad	0	0	0	25	35	37	48	52	54	68	72	71
Kannur	102	78	189	156	262	298	370	403	391	423	428	454
Kasaragod	0	0	0	17	51	51	73	94	110	127	117	113
Total	1566	1756	3041	3499	6439	6215	7181	8304	8866	9453	9320	9281

TABLE-42

DISTRIBUTION OF LICENSED DEALERS ACCORDING TO THEIR PURCHASE

Purchase in tonnes	1965-66	1970-71	1975-76	1976-77	1977-78	1978-79	1981-82	1983-84	1985-86	1987-88	1991-92	1994-95	1996-97
0 - 10	217	1022	756	753	874	1352	1603	1425	1724	3134	3384	3899	3826
11 - 25	102	227	324	345	371	402	519	536	507	618	915	989	1618
26 - 50	79	148	287	329	377	376	433	492	517	599	962	1041	1412
51 - 100	56	115	203	287	288	317	371	416	435	511	776	800	1272
101 - 250	71	124	214	283	277	352	371	404	451	510	794	822	1042
251 - 500	35	77	106	141	160	155	185	195	177	212	243	311	453
501 - 1000	27	47	94	98	99	94	109	110	117	128	145	225	268
Above 1000	21	30	52	80	79	87	79	90	116	96	146	206	226
Total	608	1790	2036	2316	2525	3135	3670	3668	4044	5808	7365	8295	10117

TABLE-43

AVERAGE DAILY EMPLOYMENT IN RUBBER PLANTATIONS

Year	Numbers	Year	Numbers
1965	122481	1982	206790
1966	126958	1983	212613
1967	135104	1984	220434
1968	139795	1985	227780
1969	144423	1986	235351
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
		1999	345000p

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

TABLE-44

COLLECTION OF EXCISE DUTY AND MISCELLANEOUS RECEIPTS OF THE RUBBER BOARD
(Million Rs.)

Year	Excise Duty on Rubber Collected	Sale of rubber from experiment stations	Sale of planting materials from nurseries	Others*	Total
1985-86	96.26	3.91	2.18	7.60	109.95
1986-87	94.19	3.94	2.90	8.16	109.19
1987-88	111.60	4.38	3.01	8.31	127.30
1988-89	126.68	5.56	2.75	10.83	145.82
1989-90	141.60	5.39	3.82	13.50	164.31
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	6.23	6.72	114.50	627.92
1999-00p	755.63	13.48	6.70	127.77	903.58

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

TABLE-45

SCHEMewise EXPENDITURE OF THE RUBBER BOARD

(In Rupees Million)

Scheme	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92
1. Rubber plantation development scheme (newplanting and replanting)	94.93	118.96	111.18	104.22	87.55	126.85	115.20
2. Infrastructure development in non-traditional areas	2.86	10.02	7.17	15.48	20.02	19.66	27.61
3. Extension training and supplies*	3.29	6.44	4.97	11.16	13.90	16.68	23.12
4. Maintenance of nurseries and distribution of planting materials	2.43	3.81	4.86	5.46	5.57	7.40	4.59
5. Processing, marketing and product development	2.30	7.55	8.21	9.23	11.68	10.16	12.61
6. Research	19.77	24.40	24.91	29.66	37.51	41.86	47.35
7. Special component plan and tribal subplan	0.12	3.74	8.67	13.38	11.15	6.85	11.28
8. Labour welfare	0.81	1.33	1.51	1.99	2.30	2.28	4.13
9. Construction of administrative building, residential building etc.	3.88	6.61	3.03	1.85	5.37	8.48	10.27
10. Operational expenses for schemes 1,3,4 & 7	18.24	22.06	25.61	25.81	28.04	29.92	39.13
11. General administration	7.63	10.15	11.21	12.74	14.36	14.81	17.49
Total							
- Plan	110.06	155.20	147.47	166.55	161.48	210.23	233.41
- Non plan	49.57	64.11	71.65	71.57	83.80	83.23	88.19
Grand Total	159.63	219.31	219.12	238.12	245.28	293.46	321.60

TABLE-45 (contn.)

Scheme	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00p
1. Rubber plantation development scheme (newplanting and replanting)	111.78	115.34	103.80	107.63	116.20	141.37	174.8	197.00
2. Infrastructure development in non-traditional areas	25.88	34.58	25.01	22.14	27.80	30.33	39.04	36.63
3. Extension training and supplies*	18.14	17.01	71.07	109.44	117.90	113.24	174.87	146.83
4. Maintenance of nurseries and distribution of planting materials	5.20	5.94	6.04	7.20	10.27	11.91	9.15	9.12
5. Processing, marketing and product development	12.41	16.09	13.16	24.59	30.05	81.80	78.17	171.87
6. Research	52.10	64.05	53.16	65.89	82.89	97.05	93.42	105.82
7. Special component plan and tribal subplan	10.76	13.47	23.02	21.48	32.38	32.32	26.78	36.64
8. Labour welfare	4.08	6.59	9.43	10.09	10.21	10.66	11.18	10.81
9. Construction of administrative building, residential building etc.	13.92	10.76	6.78	6.53	6.65	7.03	5.72	2.98
10. Operational expenses for schemes 1,3,4, & 7	46.78	50.95	58.79	72.55	88.77	128.87	119.37	139.05
11. General administration	19.96	21.82	24.02	30.62	31.89	42.71	50.54	50.73
Total - Plan	228.04	253.36	293.84	355.00	420.90	599.26	709.69	799.15
- Non plan	102.20	113.06	109.70	133.75	143.35	108.15	122.60	128.39
Grand Total	330.24	366.42	403.54	488.75	564.25	707.41	832.29	927.54

* 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-46

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	GG1 & GG2 Seedlings	PBIG, GG1 & GG2 Seedlings	Budded Stumps	Green budded Stumps	Budwood * Poly bagged Plants
1961	688912	22025	---	---	---	25	---	2638
1962	4445344	68180	---	---	---	326	---	919
1963	2788850	356835	---	---	5320	31012	---	560
1964	2641345	253777	---	---	93990	82964	---	3704
1965	4195000	202270	---	---	172403	63215	---	2890
1966	3743745	289285	---	---	168409	62478	---	---
1967	8244751	54500	---	---	155002	73533	---	1707
1968	3087131	289328	14195	92377	101887	101887	---	3067
1969	6393246	408528	10000	7099	198233	3178	---	3178
1970	3142000	210500	88900	74800	390900	---	---	2525
1971	---	---	149060	250	446729	5519	---	5519
1972	---	---	13130	100565	380657	4849	---	4849
1973	---	---	25935	52888	349778	8999	---	8999
1974	---	---	41285	---	498667	11346	---	11346
1975	---	---	2600	---	612975	15190	---	15190
1976	---	---	31055	---	744933	4442	---	4442
1977	---	---	44963	---	622620	9340	---	9340
1978	---	---	6090	---	570361	3099	---	3099
1979	---	---	60565	---	868844	2492	---	2492
1980	---	---	28980	---	871532	12014	---	4987

TABLE-46(Contin.)

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
1981	81110	.....	903668	77794	14916	551
1982	35060	.....	788383	170733	11433	1870
1983	49405	.....	743763	109681	10148	2852
1984	1012372	137887	12510	12459
1985	848443	171680	14291	12901
1986	1003694	276664	12725	53651
1987	833430	258439	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	856158	465838	873	.....
1995	549162	527290	7168	.....
1996	645553	405121	23050	.....
1997	900489	402377	15216	.....
1998	736954	248238	1754	.....
1999	557807	187895	311	.....

* In Metres

Note: 1. During 1967, the Board had also distributed 53,464 germinated PBIG/ GG Seeds.

2. The approval for planting Tjir 1 clonal seeds and seedlings has been withdrawn by the Board since 1971.

3. During 1978, 172851, and during 1982, 1025 stumped buddings were distributed.

TABLE-47

RUBBER MARKETING BY THE CO-OPERATIVE SOCIETIES

Year	No. of Societies	Rubber Marketed (In Tonnes)	Year	No. of Societies	Rubber Marketed (In Tonnes)
1965-66	16	1778	1982-83	58	11077
1966-67	18	3027	1983-84	59	11984
1967-68	23	5990	1984-85	60	12960
1968-69	23	3978	1985-86	62	21036
1969-70	25	4284	1986-87	116	24651
1970-71	37	10651	1987-88	116	25781
1971-72	58	14510	1988-89	118	31246
1972-73	58	18513	1989-90	118	30413
1973-74	60	7045	1990-91	125	29285
1974-75	62	4350	1991-92	146	48665
1975-76	62	5545	1992-93	146	34260
1976-77	64	9866	1993-94	219	50719
1977-78	54	7878	1994-95	231	55934
1978-79	52	6875	1995-96	262	60000
1979-80	50	10200	1996-97	269	62000
1980-81	53	9336	1997-98	288	62900
1981-82	54	11067	1998-99	295	63480
			1999-00p	301	82123

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

TABLE 48

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
1965-66	33.3	65.4	45.8	56.2	61.4	29.5	60.6	68.9	63.7
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	98.4	107.8	103.2	104.9	97.4	102.1
1985-86	132.3	117.0	87.7	114.0	128.7	133.6	123.4	113.0	119.6
1986-87	144.9	110.7	137.8	121.7	122.1	125.9	116.9	112.4	115.2
1987-88	155.3	118.6	88.1	119.0	114.6	131.1	113.5	118.1	115.2
1988-89	171.1	125.0	154.7	144.1	142.1	153.6	138.9	142.8	140.0
1989-90	196.3	121.4	85.0	128.8	148.3	141.5	139.7	147.3	143.9
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	146.6	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	311.4	134.4	129.6	163.6	164.5	186.8	155.9	180.9	165.2
1995-96	334.6	135.9	160.5	174.5	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
1997-98p	365.4	144.5	148.2	182.4	166.0	188.5	155.7	180.6	164.9
1998-99p	399.4	144.5	148.2	182.4	172.9	201.1	164.8	198.1	177.2

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

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

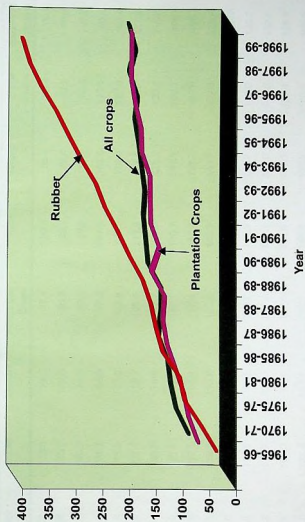




TABLE-49

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
1965-66	57.2	73.0	74.7	77.4	69.5	52.1	66.9	75.7	70.2
1970-71	83.2	80.2	122.0	86.8	90.2	82.4	93.2	90.4	92.6
1975-76	98.5	90.9	73.4	90.5	99.6	89.0	96.0	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
1986-87	118.8	102.1	118.7	106.0	118.8	121.4	116.7	111.6	114.9
1987-88	121.1	108.8	76.0	101.7	118.3	126.2	120.4	116.0	120.0
1988-89	125.0	127.0	132.9	116.1	136.5	141.5	138.1	126.6	135.8
1989-90	132.0	117.1	85.0	117.4	141.0	133.7	139.9	130.3	139.0
1990-91	137.5	119.9	110.2	122.2	140.2	143.8	137.8	128.0	133.8
1991-92	145.0	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	164.3	119.7	107.0	127.4	152.1	150.0	146.5	132.8	140.7
1994-95	174.1	121.0	92.4	127.6	154.0	161.3	150.4	138.9	145.5
1995-96	187.1	122.4	114.4	136.1	144.8	156.5	143.1	135.8	139.9
1996-97	192.1	127.0	101.9	137.5	151.7	168.9	154.5	143.8	149.8
1997-98p	192.1	127.0	101.9	137.5	153.1	156.7	148.4	131.9	141.2
1998-99p	192.1	127.0	101.9	137.5	155.4	162.9	153.8	141.3	148.4

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

TABLE-50

GROSS DOMESTIC PRODUCT AND CONSUMER PRICE INDEX

Year	Gross Domestic Product at factor cost (Rs./Crores)	All India Consumer Price Index* (Base 1986-87=100)
<i>Old Series (at 1980-81 prices)</i>		
1965-66	72122	26
1966-67	72856	31
1967-68	78785	35
1968-69	80841	32
1969-70	86109	32
1970-71	90426	33
1971-72	91339	33
1972-73	91048	37
1973-74	95192	45
1974-75	96297	60
1975-76	104968	58
1976-77	106280	50
1977-78	114219	55
1978-79	120504	54
1979-80	114236	59
1980-81	122427	67
1981-82	121889	75
1982-83	133915	79
1983-84	144865	88
1984-85	150433	88
1985-86	156566	93
1986-87	163271	97
1987-88	170322	107
1988-89	188461	120
1989-90	201453	127
1990-91	212253	136
1991-92	213983	163
1992-93	225240	183
<i>New Series (at 1993-94 prices)</i>		
1993-94	781345	189
1994-95	835864	212
1995-96	896990	234
1996-97	964390	256
1997-98	1012816	267
1998-99p	1083047	293
1999-00p	1151991	306

* For Agricultural Labourers.

Source: Economic Survey 1999-00, Govt. of India &

Quick estimates released by Central Statistical Organisation.

TABLE-51

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
All Commodities	112.6	121.6	127.2	132.8	140.7	145.3
Food - grains	114.7	122.5	137.6	139.3	152.0	176.4
Fruits & Vegetables	108.0	123.5	148.9	142.8	185.4	154.5
Condiments & Spices	128.2	153.4	176.6	176.9	220.2	226.4
Oil seeds	118.5	128.6	130.6	128.3	148.5	133.4
Minerals	104.9	94.7	107.2	98.8	110.9	110.4
Electricity	113.6	127.8	133.5	151.8	157.2	168.9
Edible Oils	110.9	116.9	115.1	113.5	139.1	122.1
Tea & Coffee processing	104.4	114.6	116.7	160.4	164.1	185.5
Textiles	118.2	129.4	118.7	115.5	114.4	115.0
Leather & Leather Products	109.7	119.2	121.2	128.8	133.2	154.6
<i>Natural Rubber</i>	<i>141.6</i>	<i>202.6</i>	<i>190.8</i>	<i>139.4</i>	<i>116.5</i>	<i>120.6</i>
Rubber & Plastic Products	106.4	123.0	124.2	124.5	123.7	123.6
Tyres & Tubes	104.1	129.6	132.9	131.7	133.1	131.7
Plastic Products	106.8	112.2	110.7	113.1	109.3	110.9
Other Rubber & Plastic Products	121.0	133.7	132.8	132.8	132.8	132.8
Chemicals & Chemical Products	116.6	126.8	131.1	137.1	145.8	155.2
Fertilisers & Pesticides	117.7	128.1	128.2	134.2	136.0	140.3
Motor Vehicles	107.6	116.7	124.5	129.3	133.4	137.6

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

TABLE-50

GROSS DOMESTIC PRODUCT AND CONSUMER PRICE INDEX

Year	Gross Domestic Product at factor cost (Rs./Crores)	All India Consumer Price Index* (Base 1986-87=100)
<i>Old Series (at 1980-81 prices)</i>		
1965-66	72122	26
1966-67	72856	31
1967-68	78785	35
1968-69	80841	32
1969-70	86109	32
1970-71	90426	33
1971-72	91339	33
1972-73	91048	37
1973-74	95192	45
1974-75	96297	60
1975-76	104968	58
1976-77	106280	50
1977-78	114219	55
1978-79	120504	54
1979-80	114236	59
1980-81	122427	67
1981-82	121889	75
1982-83	133915	79
1983-84	144865	88
1984-85	150433	88
1985-86	156566	93
1986-87	163271	97
1987-88	170322	107
1988-89	188461	120
1989-90	201453	127
1990-91	212253	136
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1992-93	225240	183
<i>New Series (at 1993-94 prices)</i>		
1993-94	781345	189
1994-95	835864	212
1995-96	896990	234
1996-97	964390	256
1997-98	1012816	267
1998-99p	1083047	293
1999-00p	1151991	306

* For Agricultural Labourers.

Source: Economic Survey 1999-00, Govt. of India &

TABLE-51

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(Base: 1993-94=100)

Commodities	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00
All Commodities	112.6	121.6	127.2	132.8	140.7	145.3
Food - grains	114.7	122.5	137.6	139.3	152.0	176.4
Fruits & Vegetables	108.0	123.5	148.9	142.8	185.4	154.5
Condiments & Spices	126.2	153.4	176.6	176.9	220.2	226.4
Oil seeds	118.5	128.6	130.6	128.3	148.5	133.4
Minerals	104.9	94.7	107.2	99.8	110.9	110.4
Electricity	113.6	127.8	133.5	151.8	157.2	168.9
Edible Oils	110.9	116.9	115.1	113.5	139.1	122.1
Tea & Coffee processing	104.4	114.6	116.7	160.4	164.1	185.5
Textiles	118.2	129.4	118.7	115.5	114.4	115.0
Leather & Leather Products	109.7	119.2	121.2	128.8	133.2	154.6
Natural Rubber	141.6	202.6	190.8	139.4	116.5	120.6
Rubber & Plastic Products	106.4	123.0	124.2	124.5	123.7	123.6
Tyres & Tubes	104.1	129.6	132.9	131.7	133.1	131.7
Plastic Products	106.8	112.2	110.7	113.1	109.3	110.9
Other Rubber & Plastic Products	121.0	133.7	132.8	132.8	132.8	132.8
Chemicals & Chemical Products	116.6	126.8	131.1	137.1	145.8	155.2
Fertilisers & Pesticides	117.7	128.1	128.2	134.2	136.0	140.3
Motor Vehicles	107.6	116.7	124.5	129.3	133.4	137.6

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-52

AREA UNDER RUBBER IN MAIN PRODUCING COUNTRIES

(In Thousand Hectares)

Territory	End of	Holdings	Estates	Total
Indonesia	1998	2795	549	3344
Thailand	1998	NA	NA	1972
Malaysia	1998	1373	195	1568
China	1996	NA	NA	618
India	1998	484	69	553
Sri Lanka	1998	100	58	158
Brazil	1998	100	80	180
Nigeria	1999	90	60	150
Liberia	1999	49	60	109
Vietnam*	1997	35	240	275
D.R. of Congo(a)	1999	10	25	35
Philippines	1999	---	92	92
Myanmar	1995	59	46	105
Cote d'Ivoire	1998	26	70	96
Cameroon	1997	2	40	42

Note : Estate areas refer to holdings of 40 ha. and over.

NA : Not available, * : Estimate

(a) : Formerly Zaire.

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

CHART 12
SHARE OF INDIA IN WORLD PRODUCTION OF NR - 1999

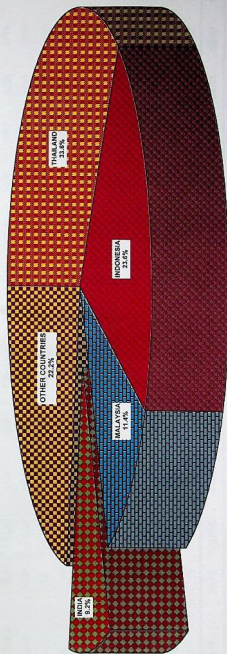




TABLE-53

PRODUCTION OF NATURAL RUBBER IN MAIN PRODUCING COUNTRIES

(In Thousand Tonnes)

Country	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999p
Thailand	355	501	724	1275	1341	1531	1553	1718	1805	1970	2033	2216*	2268
Indonesia	823	1020	1130	1262	1284	1387	1301	1359*	1455	1527	1505	1714	1596
Malaysia	1459	1530	1470	1291	1256	1173	1074	1101	1089	1083	971	886	769
India	136	155	198	324	360	383	428	464	500	540	580	591	620
China	69	113	188	264	296	309	326	374	424	430	444*	450	460
Philippines	51	70	NA	61	60	57	58	59	60	62	65	64	65
Nigeria *	68	47	52	152	80	89	98	69	116	64	65	93	50
Sri Lanka	149	133	138	113	104	106	104	105	106	113	106	96	97
Vietnam*	20	46	52	103	87	114	117	156	154	218	209	200	230
Comodia	10	NA	22	35	36	36	36	37	38	39	40	39	40
Liberia *	83	77	84	19	32	30	45	10	13	30	67	75	85
Brazil	19	28	40	31	30	31	41	45	44	51	58	66	70
Total**	3315	3850	4400	5120	5160	5450	5310	5720	6040	6390	6390	6680	6750

* : Estimated, ** : Including other countries not reported separately & NA : Not available separately.

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

TABLE-54

CONSUMPTION OF NATURAL RUBBER IN MAIN CONSUMING COUNTRIES

(In Thousand Tonnes)

Country	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999p
U.S.A.	666	585	764	808	756	910	967	1002	1004	1002	1044*	1157*	1083
Japan	285	427	540	677	690	685	631	640	692	715	713	707	734
China*	225	340	415	600	610	640	650	720	780	810	910	839	852
India	129	171	233	358	375	405	444	473	517	558	572	580	619
Korea Rep*	NA	NA	155	255	264	276	271	290	300	300	302	282	331
Malaysia	31	45	69	184	216	249	269	292	327	357	327	334	344
Germany@	197	180	202	209	211	213	175	186	212	193*	212*	247*	224
France	156	188	156	179	183	179	169	180	176	182	192	223	253
Brazil	59	81	98	124	123	123	132	145	155	155	160	160	170
U.K.*	171	131	126	136	119	125	119	135	118	111	119	139	131
Italy	118	132	127	130	120	115	108	100	102	100	117	146*	134
Taiwan*	NA	NA	84	105	120	115	109	105	103	96	105	103	111
C.I.S	NA	NA	210	150	80	28	36*	12	13	16	9*	5*	11
Total**	3368	3760	4430	5210	5060	5320	5430	5650	5950	6100	6460	6550	6700

**Estimated, NA: Not available separately, @ : Upto 1990 Federal Republic of Germany.

For C.I.S., data before 1992 refer to the former U.S.S.R.

*: Including allowances for officially reported Statistics and those countries not reported separately.

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

CHART 13
SHARE OF INDIA IN WORLD CONSUMPTION OF NR - 1999





TABLE-55

PRODUCTION OF SYNTHETIC RUBBER IN MAIN PRODUCING COUNTRIES

(In Thousand Tonnes)

Country	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999p
U.S.A.	1990	2215	2026	2115	2050	2300	2180	2390*	2530*	2486	2589	2600*	2354
C.I.S.	1600	2040	2125	2277	2105	1611	1103	632	837	775	725	621	735
Japan	789	1094	1158	1426	1377	1390	1310	1349	1498	1520	1592	1520	1577
France	350	511	544	522	471	500	486	595	618	583	595	606	569
Germany @	316	390	448	525	504	545	570	622	480	548	555	619	720
China	57	123	171	316	335	371	365	494	483	553	600	589	679
Italy	200	250	225	300	305	310	300	305	310	303	295	290	279
Brazil	129	249	266	256	264	261	252	274	286	310*	336*	338*	366
U.K.	261	212	233	274	251	280	290	291	320	280*	294	252	283
Netherlands	216	212	235	244	246	191	176	209	178	198	194	184*	185
Canada*	173	253	209	195	180	206	187	197	170	220	216	191	180
Korea Rep*	24	75	106	227	225	260	307*	340	384	516	540	547	655
Taiwan	NA	77	105	175	194	198	215	297	365	376	457	472	495
Mexico	60	91	146	133	118	131	123	122	142	147	154	173	171
Belgium*	65	115	92	125	114	120	120	110	95	105	100	95	100
Poland	108	118	126	103	80	89	75	83	105	106	100	94	97
India	233	23	37	58	56	61	53	59	67	63	74	67	65
Total +	6855	8695	8960	9890	9290	9300	8600	8870	9480	9760	10070	9900	10180

*: Estimated, NA: Not Available separately, +: Including other countries not reported separately.

@: Up to 1990 Federal Republic of Germany; For C.I.S., data before 1992 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	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999p
U.S.A	1964	1980	1962	1821	1768	1960	2001	2118	2172	2187	2323	2354	2094
C.I.S.	NA	NA	2115	2078	1980	1200	770*	422	424	438	450	358	425
Japan	585	895	948	1133	1119	1081	1022	1026	1085	1125	1163	1116	1133
China*	55	155	245	340	395	495	520	680	760	870	995	1000	1260
Germany @	360	421	411	511	502	506	488	512	426	478*	501*	569	605
France	278	342	312	351	342	365	315	400	430	436	416	451	411
Italy	220	288	277	310	305	295	280	285	293	291	280	275	287
Korea Rep*	NA	NA	145	279	251	275	300	320	370	440	406	277	394
Brazil*	176	244	235	284	290	297	270	275	280	290	310	315	312
U.K.*	266	248	201	223	201	231	211	220	226	230	235	177	189
Canada	179	200	173	185	184	198	200*	205*	198	242	259	238	221
Taiwan*	NA	NA	95	195	206	211	223	281	284	274	292	272	263
Spain	NA	NA	144	166	147	165	147	171	195	200	222	229	242
Mexico*	NA	NA	140	114	110	124	119	126	132	160	162	165	169
India	32	46	70	97	100	110	111	116	133	142	158	155	164
Total +	7028	8785	9000	9660	9220	9360	8620	8820	9270	9590	10000	9890	10110

*: Estimated, NA : Not Available separately, @ : Upto 1990 Federal Republic of Germany.

For C.I.S., data before 1992 refer to the former U.S.S.R.

+ Including allowances for discrepancies in officially reported statistics and those countries not reported separately.

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

CHART 14
WORLD CONSUMPTION OF NR AND SR

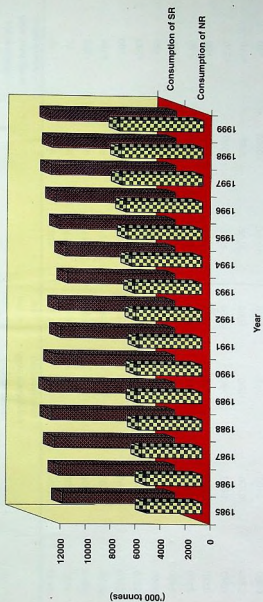


TABLE-57

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	Stock at the end of the year	Production	Consumption	Excess(+) or deficiency(-) compared with consumption	Stock at the end of the year
1985	4400	4430	-30	1570	8960	9000	-40	1730
1986	4490	4460	+30	1600	9270	9280	-10	1720
1987	4840	4800	+40	1640	9450	9650	-200	1520
1988	5020	5100	-80	1560	10160	9940	+220	1800
1989	5150	5190	-40	1610	10150	10040	+80	1890
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	8870	8820	+50	1910
1995	6040	5950	+90	1790	9460	9270	+210	2120
1996	6390	6100	+290	2080	9760	9590	+170	2290
1997	6390	6460	-70	2010	10070	10000	+70	2360
1998	6690	6550	+140	2140	9900	9690	+210	2370
1999p	6750	6700	+50	2190	10180	10110	+70	2440

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

TABLE-58

ESTIMATED PERCAPITA CONSUMPTION OF NATURAL AND SYNTHETIC RUBBER

(Kilograms)

Country	1960	1965	1970	1975	1980	1985	1990	1991	1992	1993	1994	1995	1996	1997	1998
U.S.A.	8.77	10.75	12.28	12.18	11.26	11.43	10.52	9.99	11.24	11.50	11.37	12.07	11.96	12.61	12.98
Canada	5.19	7.22	8.77	11.04	11.65	10.65	10.12	9.25	9.99	10.09	10.83	10.77	12.05	12.88	12.74
Germany	4.58	6.20	9.21	9.01	9.77	10.05	9.07	8.91	8.92	8.17	8.57	7.69	8.19	8.72	9.47
France	4.84	5.66	8.25	8.22	9.84	8.48	9.34	9.20	9.48	8.38	10.02	10.32	10.59	10.39	11.46
U.K.	5.75	6.83	8.53	7.80	6.77	5.77	6.24	5.54	6.12	5.69	6.03	6.06	5.82	6.12	5.46
Japan	2.44	3.82	7.47	7.80	11.23	12.31	14.85	14.59	14.21	13.26	13.33	14.19	14.62	14.93	14.42
Australia	5.93	7.02	7.51	7.20	6.87	5.19	5.39	4.92	5.09	6.06	6.56	6.37	5.80	5.50	5.47
Italy	2.68	3.85	5.78	6.10	7.44	7.05	7.63	7.49	7.21	6.80	6.73	6.93	6.81	7.08	7.37
Brazil	0.89	0.80	1.32	2.24	2.68	2.52	2.76	2.82	2.79	2.71	2.76	2.98	2.82	2.94	2.94
China	0.18	0.23	0.35	0.38	0.50	0.62	0.83	0.87	0.98	1.00	1.18	1.25	1.36	1.56	1.46
India	0.12	0.18	0.22	0.27	0.32	0.40	0.55	0.56	0.59	0.63	0.64	0.70	0.70	0.76	0.76
World	1.46	1.85	2.35	2.57	2.82	2.77	2.82	2.68	2.69	2.52	2.54	2.61	2.73	2.86	2.79

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

Chart - 15
PRICE OF NATURAL RUBBER IN INDIAN AND INTERNATIONAL
MARKETS

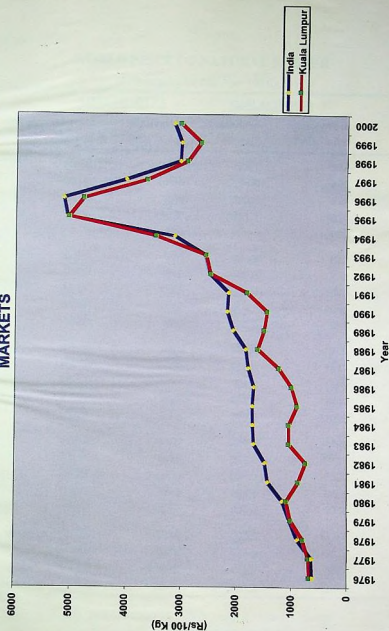




TABLE-59

WORLD PRICE OF NATURAL RUBBER

(Average price for RSS 3 per 100 Kg.)

Year	LONDON [C.I.F.]		KUALALUMPUR		INDIA
	Pound Sterling	Equivalent Rate in Rs.	Malaysian Ringgit	Equivalent Rate in Rs.	Rs.
1976	46.02	750	189.7	674	620
1977	49.34	756	194.0	692	630
1978	54.04	850	222.5	789	885
1979	62.53	1072	271.1	1011	1024
1980	63.76	1170	298.7	1083	1154
1981	53.36	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

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

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