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DEPARTMENT OF TRADE AND COMMERCE

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GENERAL MANUFACTURING STATISTICS

MONTHLY REPORT

ON

CONSUMPTION,

PRODUCTION AND INVENTORIES

OF RUBBER,

JULY, 1947.



OTTAWA
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MONTHLY REPORT

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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

GENERAL MANUFACTURING STATISTICS

OTTAWA - CANADA

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CONSUMPTION, PRODUCTION AND INVENTORIES OF RUBBER

JULY, 1947

During the years of Control, monthly Rubber Statistics were developed, showing consumption by types of rubber, and by end product classifications, together with stocks, new production of synthetics, etc. These statistics show clearly the impact on rubber consumers of the loss of natural rubber supplies, and the consequent growth of the synthetic rubber industry. Since they show consumption by end product classification, they are a useful record of the extent to which synthetics were consumed in each of the broad product fields.

Commencing with March, 1947, the Dominion Bureau of Statistics undertook the continuance and publication of a similar, though modified, series, and all available material to date is included in this report. Historical tables, prepared largely from the Rubber Control records, have also been included, in order that valuable material might thus be presented in a condensed form, and also that relationships might be established for the evaluation of current data.

However, assumptions which were valid during the period of control due to the fact that the movements of the commodity were under direction, are no longer sufficiently reliable to permit the publication of import - export data based on receipts and sales of manufacturers, or to assume that the imports of some specific synthetic by a particular manufacturer represent the total new supply of this synthetic. Nor can the inventories of manufacturers, whether producing or consuming, be considered as total since the re-establishment of normal trade channels indicates dealer inventories outside the scope of an industry survey. Also the quantity of foreign or domestic rubber in transit at the close of any period is not known.

Therefore, the statistics now available monthly, are considered only to represent clearly and accurately (a) the new domestic production of synthetic and reclaim, and the inventories of firms reporting this production, and (b) the total consumption of rubber, whether foreign or domestic, together with inventories, receipts and sales of rubber by consuming manufacturers in all industries. The addition of the two inventories give the total stocks held by industry.

The historical tables have now been revised to omit import - export columns, and the current rubber balance statement has been broken down into (a) and (b) as outlined in the preceding paragraphs.

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However, despite the fact that the total available supply is not known and that it is impossible to relate shipments and receipts the data given in (t) do ultimately account for the total consumption of rubber in Canada, and should be capable of being co-related with new production and export - import data (as compiled by External Trade Branch, D. B. S.) over a period of months.

The sections showing consumption of rubber, by types, and by end products have not been changed, since they do correctly represent total consumption in each case.

Section A. Canadian Rubber Balance Statement

This section includes summary data on natural, synthetic and reclaim rubber, showing stocks, domestic production, and domestic consumption. Table 1 gives yearly averages, 1939 - 1945, and actual months, July, 1945 to July, 1947. Table 2 gives details for June and July, 1947.

For detailed data for consumption, by specific types, and by end products classifications, wherever possible, see Section B, Natural Rubber; Section C, Synthetic Rubber; and Section D, Reclaim Rubber.

Table 1. - Summary Statement of all Rubber Stocks, Domestic Production, Domestic Consumption showing Monthly Averages, 1939 - 1945, and Actual Monthly Totals, July, 1945 to July, 1947.

Weights are given in Long Tons (2,240 pounds)

Period	Stocks, End of Period			Domestic Production		Domestic Consumption		
	Natural	Synthetic	Reclaim	Synthetic	Reclaim	Natural	Synthetic	Reclaim
Monthly Averages								
1939 ...	n.a.	n.a.	n.a.	-	-	2,635	-	626
1940 ...	n.a.	n.a.	n.a.	-	-	3,083	-	703
1941 ...	n.a.	n.a.	n.a.	-	-	4,436	-	789
1942 ...	n.a.	n.a.	4,560	-	-	3,512	-	1,042
1943 ...	8,165	2,292	4,822	210	392	2,434	307	1,166
1944 ...	5,399	3,641	3,516	2,902	263	799	2,061	1,052
1945 ...	3,703	4,107	2,219	3,810	276	491	2,995	1,276

CONSUMPTION, PRODUCTION AND INVENTORIES OF RUBBER

Section A. Canadian Rubber Balance Statement

Table 1. - Summary Statement of all Rubber Stocks, Domestic Production, Domestic Consumption showing Monthly Averages, 1939 - 1945, and Actual Monthly Totals, July, 1945 to July, 1947. - Concl.

Weights are given in Long Tons (2,240 pounds)

Period	Stocks, End of Period			Domestic Production		Domestic Consumption		
	Natural	Syn- thetic	Reclaim	Synthetic	Reclaim	Natural	Syn- thetic	Reclaim
Monthly Totals								
1945 - July	4,007	5,284	2,700	4,007	201	415	2,728	1,003
Aug.	4,798	4,989	2,809	3,399	309	349	2,319	1,117
Sept.	4,517	3,938	2,617	2,783	265	383	2,948	1,357
Oct.	4,637	4,146	2,456	3,541	327	395	3,206	1,483
Nov.	4,165	4,106	2,102	3,984	353	473	3,613	1,559
Dec.	3,703	4,124	2,219	3,575	249	461	3,082	1,373
1946 - Jan.	3,025	4,995	2,150	4,255	290	674	3,446	1,525
Feb.	2,466	4,183	2,228	3,818	326	707	3,356	1,400
Mar.	3,000	3,871	2,358	3,816	343	835	3,741	1,537
Apr.	2,845	3,773	2,575	4,317	288	817	3,808	1,505
May	2,278	3,332	2,572	3,707	341	938	3,699	1,418
June	1,775	3,978	2,409	4,542	300	702	2,946	1,363
July	2,021	7,058	2,672	4,282	264	172	588	519
Aug.	2,929	9,045	3,054	4,570	352	229	530	594
Sept.	4,307	8,742	3,235	3,728	349	294	635	656
Oct.	5,752	7,734	3,530	4,526	344	433	1,051	846
Nov.	7,661	5,829	3,194	4,634	414	1,854	3,048	1,485
Dec.	5,885	4,565	3,455	4,786	356	1,850	2,768	1,292
1947 - Jan.	3,729	4,316	3,195	4,408	329	2,153	3,195	1,533
Feb.	2,876	4,551	3,114	4,024	330	2,224	2,823	1,463
Mar.	4,473	5,344	2,872	4,466	360	2,440	2,876	1,570
Apr.	7,187	5,473	2,931	4,628	360	2,476	2,942	1,395
May	9,992	4,953	2,772	3,467	359	2,643	2,889	1,438
June	10,108	4,488	2,599	3,392	334	2,627	2,540	1,299
July	10,045	3,733	2,629	3,480	225	2,433	2,059	1,120

Note: Poundage of Guayule Rubber included in Natural Rubber totals is on a deresinated basis. All other wild rubber is calculated on a Washed and Dried basis. Also it should be particularly noted that all stocks are taken at the raw level, or the level on which rubber may be used as a material. They would include compound latex purchased for consumption by a manufacturer but would not include the semi-processed, or finished goods, held in inventory by the manufacturer.

CONSUMPTION, PRODUCTION AND INVENTORIES OF RUBBER

Table 2(a). - NEW SUPPLY. Statement of Manufacturers producing Synthetic and Reclaim Rubber.

(Weight in Long Tons)

Type of Rubber	Inventory July 1, 1947	Production	Inventory July 31, 1947
<u>Natural Rubber -</u>			
Crude Rubber	3	-	3
Natural Latex	65	-	101
Total Natural Rubber	68	-	104
<u>Synthetic Rubber -</u>			
Buna S	1,533	3,389	1,362
Butyl	1,038	91	891
Neoprene	90	-	80
All other	1	-	1
Total Synthetic Rubber	2,662	3,480	2,334
Total Natural and Synthetic Rubber	2,730	3,480	2,438
<u>Reclaim Rubber -</u>			
Dispersions	15	37	19
Other than dispersions	231	188	193
Total Reclaim Rubber	246	225	212
GRAND TOTAL	2,976	3,705	2,650

Table 2(b). - CONSUMPTION. Statement of Manufacturers Consuming Rubber,

(Weight in Long Tons)

Type of Rubber	Inventory July 1, 1947	Receipts (imports, etc.)	Con- sumption	Sales (exports etc.)	Inventory July 31, 1947
<u>Natural Rubber -</u>					
Crude Rubber	9,917	2,250	2,390	17	9,760
Natural Latex	123	101	43	-	181
Total Natural Rubber ...	10,040	2,351	2,433	17	9,941
<u>Synthetic Rubber -</u>					
Buna S	1,373	1,360	1,647	5	1,081
Butyl	336	211	339	-	208
Neoprene	79	61	66	-	74
All other	38	5	7	-	36
Total Synthetic Rubber .	1,826	1,637	2,059	5	1,399
Total Natural and Synthetic Rubber	11,866	3,988	4,492	22	11,340
<u>Reclaim Rubber -</u>					
Dispersions	56	93	64	-	85
Other than dispersions ...	2,297	1,091	1,056	-	2,332
Total Reclaim Rubber ...	2,353	1,184	1,120	-	2,417
GRAND TOTAL	14,219	5,172	5,612	22	13,757

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Section B. Natural Rubber

The June and July, 1947, consumption of Natural Rubber showing crude rubber and natural latex separately, and arranged according to end products classifications, is shown in Table 5.

Summary data, by months, January, 1946 - July 1947, are shown in Table 4, and 1939 - 1946 yearly totals and monthly averages are given in Table 3. Crude rubber and natural latex do not appear separately in summary tables, but are combined under the heading "Natural".

For summary data on Synthetics, Natural and other rubber stocks, domestic production, domestic consumption, expressed in long tons, see Table 1. However, when comparing monthly consumption of natural rubber, as given in Table 1, with consumption as shown in detailed tables by end product classification, it should be noted that in Table 1, Guayule Rubber is reduced to a deresinated basis, whereas in the detailed tables it is included at the weight reported by the firms. Commencing with March 1, 1947, poundage of Guayule included in all tables is on a deresinated basis, and totals should, therefore, agree.

Table 3. - Consumption of Natural Rubber in Total,
and Showing Monthly Averages, 1939-1946.

<u>Year</u>	<u>Total Pounds</u>	<u>Monthly Averages Pounds</u>
1939	70,828,800	5,902,400
1940	82,871,040	6,905,920
1941	119,239,680	9,936,640
1942	94,402,560	7,866,880
1943	65,425,920	5,452,160
1944	21,477,120	1,789,760
1945	13,198,080	1,099,840
1946	21,459,286	1,788,273

CONSUMPTION, PRODUCTION AND INVENTORIES OF RUBBER

Table 4. - Consumption of Natural Rubber in Total, by End Products, and by Months, January, 1946 - July, 1947, Showing also percentage of Natural to All Synthetic and Natural Consumed.

Month	Natural Rubber		Used in the manufacture of -					
	Total	Percentage of all rubber	Tires and tubes	Repair Materials	Mechanical Goods	Wire and Cable	Footwear	Miscellaneous
	000's pounds	Per cent	000's pounds	000's pounds	000's pounds	000's pounds	000's pounds	000's pounds
1946 - January	1,546	16.68	1,065	40	97	4	307	32
February	1,624	17.78	1,054	34	99	5	395	37
March	1,905	18.60	1,232	25	122	11	469	46
April	1,855	17.85	1,214	26	145	14	405	50
May	2,116	20.34	1,404	33	139	18	448	74
June	1,576	29.26	964	26	114	26	380	67
July	388	22.72	98	4	38	9	193	45
August	513	30.21	154	3	50	11	225	71
September ...	658	31.64	252	13	70	13	248	62
October	970	29.18	488	15	95	13	283	76
November	4,163	37.89	3,373	37	230	25	411	88
December	4,145	40.06	3,311	65	225	25	413	106
1947 - January	4,824	40.26	3,925	56	256	20	436	130
February	4,982	44.06	3,990	50	290	24	507	119
March	5,465	45.89	4,275	42	323	22	624	178
April	5,546	45.69	4,375	42	302	25	612	190
May.....	5,921	47.78	4,473	30	354	35	792	237
June	5,885	50.84	4,361	39	387	45	788	265
July	5,448	54.16	4,133	36	410	14	641	214

CONSUMPTION, PRODUCTION AND INVENTORIES OF RUBBER

Table 5 (a). - Consumption of Natural Rubber, by Types and by End Product Classification, June, 1947.

End Products	Crude Rubber (excluding latex)	Latex	Total Crude and Latex
	pounds	pounds	pounds
1. Tires and tubes	4,353,783	7,179	4,360,962
2. Tire repair materials (including cements and camelback)	38,331	1,000	39,331
3. Mechanical goods	386,890	-	386,890
4. Wire and cable	44,906	-	44,906
5. Footwear (including heels, soles, etc.)	785,216	2,494	787,710
6. Miscellaneous	164,603	100,548	265,151
 TOTAL	 5,773,729	 111,221	 5,884,950

Table 5 (b). - Consumption of Natural Rubber, by Types and by End Product Classification, July, 1947.

End Products	Crude Rubber (excluding latex)	Latex	Total Crude and Latex
	pounds	pounds	pounds
1. Tires and tubes	4,127,643	5,569	4,133,112
2. Tire repair materials (including cements and camelback)	35,086	750	35,836
3. Mechanical goods	409,988	-	409,988
4. Wire and cable	14,169	-	14,169
5. Footwear (including heels, soles, etc.)	639,517	1,694	641,211
6. Miscellaneous	126,197	87,530	213,727
 TOTAL	 5,352,500	 95,543	 5,448,043

CONSUMPTION, PRODUCTION AND INVENTORIES OF RUBBER

Section C. Synthetic Rubber

The June and July, 1947, consumption of Synthetic Rubber is shown, by type, and by end product classification, in Table 9.

Summary data, by months, July, 1945 to July, 1947, are shown in Tables 7 and 8, while 1943 - 1946 yearly totals and monthly averages are given in Table 6.

For summary data on Synthetic and other rubber stocks, domestic production, domestic consumption, expressed in long tons, see Table 1.

Table 6. - Consumption of Synthetic Rubber in Total, and showing Monthly Averages, 1943 - 1946.

<u>Year</u>	<u>Total Pounds</u>	<u>Monthly Averages Pounds</u>
1943	8,252,160	687,680
1944	55,399,680	4,616,640
1945	80,505,600	6,708,800
1946	66,357,973	5,529,831

Table 7. - Consumption of Synthetic Rubber, by Types and by Months, July, 1945 to July, 1947

<u>Month</u>	<u>Buna S</u>	<u>Butyl</u>	<u>Neoprene</u>	<u>Other</u>	<u>Total</u>
	<u>pounds</u>	<u>pounds</u>	<u>pounds</u>	<u>pounds</u>	<u>pounds</u>
1945 - July	5,283,550	649,716	148,262	28,326	6,109,854
August	4,468,104	566,889	150,926	11,191	5,197,110
September ...	5,647,551	754,749	183,441	16,571	6,602,312
October	6,126,762	838,316	201,847	13,710	7,180,635
November	6,920,455	929,364	225,173	12,860	8,087,852
December	5,884,613	799,161	197,200	18,765	6,899,739
1946 - January	6,525,620	966,922	210,560	18,912	7,722,014
February	6,324,833	934,575	228,480	22,881	7,510,769
March	7,146,789	923,442	286,720	27,825	8,384,776
April	7,273,779	991,946	248,640	21,544	8,535,909
May	6,945,265	1,030,234	277,760	35,315	8,288,574
June	5,515,190	819,974	253,120	19,177	6,607,461
July	1,064,494	79,115	165,760	8,567	1,317,936
August	973,714	62,611	143,360	6,022	1,185,707
September ...	1,138,981	108,720	170,240	4,355	1,422,296
October	1,921,885	246,885	176,960	9,066	2,354,796
November	5,548,222	1,029,746	237,440	10,268	6,825,676
December	5,000,720	953,020	237,680	10,639	6,202,059
1947 - January	5,710,124	1,199,032	230,720	18,173	7,158,049
February	5,034,216	1,095,348	176,960	18,814	6,325,338
March	5,122,804	1,001,714	241,890	76,249	6,442,657
April	5,201,926	1,162,252	217,750	9,477	6,591,405
May	5,135,107	1,092,810	225,866	16,464	6,470,247
June	4,447,404	960,038	219,914	63,014	5,690,370
July	3,689,525	759,452	146,944	15,129	4,611,050

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Table 8. - Consumption of Synthetic Rubber, in Total, by End Products, and by Months, January, 1946 - July, 1947, Showing also Percentage of Synthetic to all Natural and Synthetic Consumed.

Month	Synthetic Rubber		Used in the manufacture of -					
	Total	Percentage of all rubber	Tires and tubes	Repair Materials	Mechanical goods	Wire and cable	Footwear	Miscel- laneous
	000's pounds	Per cent	000's pounds	000's pounds	000's pounds	000's pounds	000's pounds	000's pounds
1946 - January	7,722	83.32	6,010	102	504	160	430	517
February	7,511	82.22	5,925	82	587	134	430	352
March	8,385	81.40	6,506	66	733	141	530	408
April	8,536	82.15	6,771	47	784	133	338	463
May	8,289	79.66	6,368	79	736	163	449	494
June	6,607	70.74	4,894	86	646	162	379	441
July	1,318	77.28	399	6	294	104	140	375
August	1,186	69.79	213	-	204	121	204	443
September	1,422	68.36	407	14	250	130	206	415
October	2,355	70.82	1,039	29	388	150	253	497
November	6,826	62.11	5,125	112	723	141	271	454
December	6,202	59.94	4,566	108	637	162	298	430
1947 - January	7,158	59.74	5,194	95	849	183	377	459
February	6,325	55.94	4,828	91	474	164	375	395
March	6,443	54.11	4,717	63	670	168	519	306
April	6,591	54.31	4,774	69	646	165	575	362
May	6,470	52.22	4,877	51	586	231	401	325
June	5,690	49.16	4,340	37	616	164	210	324
July	4,611	45.84	3,532	37	446	114	307	175

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Table 9(a). - Consumption of Synthetic Rubber, by Types and by End Product Classification, June, 1947.

End Products	Buna S	Butyl	Neoprene	Other	Total Synthetic
	pounds	pounds	pounds	pounds	pounds
1. Tires and tubes	3,396,445	942,101	1,075	-	4,339,621
2. Tire repair materials (including cements and camelback).....	37,218	30	-	-	37,248
3. Mechanical goods	449,321	5,999	124,850	35,354	615,524
4. Wire and cable	141,983	400	21,781	-	164,164
5. Footwear (including heels, soles, etc.)	207,728	-	1,498	695	209,921
6. Miscellaneous	214,709	11,508	70,710	26,965	323,892
TOTAL	4,447,404	960,038	219,914	63,014	5,690,370

Table 9(b). - Consumption of Synthetic Rubber, by Types and by End Product Classification, July, 1947.

End Products	Buna S	Butyl	Neoprene	Other	Total Synthetic
	pounds	pounds	pounds	pounds	pounds
1. Tires and tubes	2,779,908	752,547	-	-	3,532,455
2. Tire repair materials (including cements and camelback).....	36,721	60	-	-	36,781
3. Mechanical goods	365,351	1,086	73,344	6,444	446,225
4. Wire and cable	83,705	-	30,630	-	114,335
5. Footwear (including heels, soles, etc.)	303,892	300	1,252	1,042	306,486
6. Miscellaneous	119,948	5,459	41,718	7,643	174,768
TOTAL	3,689,525	759,452	146,944	15,129	4,611,050

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Section D. Reclaim Rubber

No end product consumption data are available for Reclaim Rubber. However, Reclaim is usually classified as (a) Dispersions, and (b) Other than dispersions. This break-down gives some broad indication of the end product use. "Other than Dispersions" would compare with crude rubber, while "Dispersions" would compare with natural latex.

(In general, dispersions are mechanical dispersions of rubber, resins or reclaim, the products being similar to compounded latex. Basically, they are a suspension of rubber or resin in water. Natural rubber latex could be considered as the "classic material", and the others as later developments that come about through necessity of advancing technological knowledge. They are used where latex was, might be, or could be used.)

Tables 10 and 11 give the consumption of Reclaim, in total, for the years 1939 - 1946, with monthly averages for each year and broken down into Dispersions and Other than Dispersions, by actual months, July, 1945 to July, 1947.

For summary data on Reclaim, Synthetics, and other rubber stocks, domestic production, domestic consumption, expressed in long tons, see Table 1.

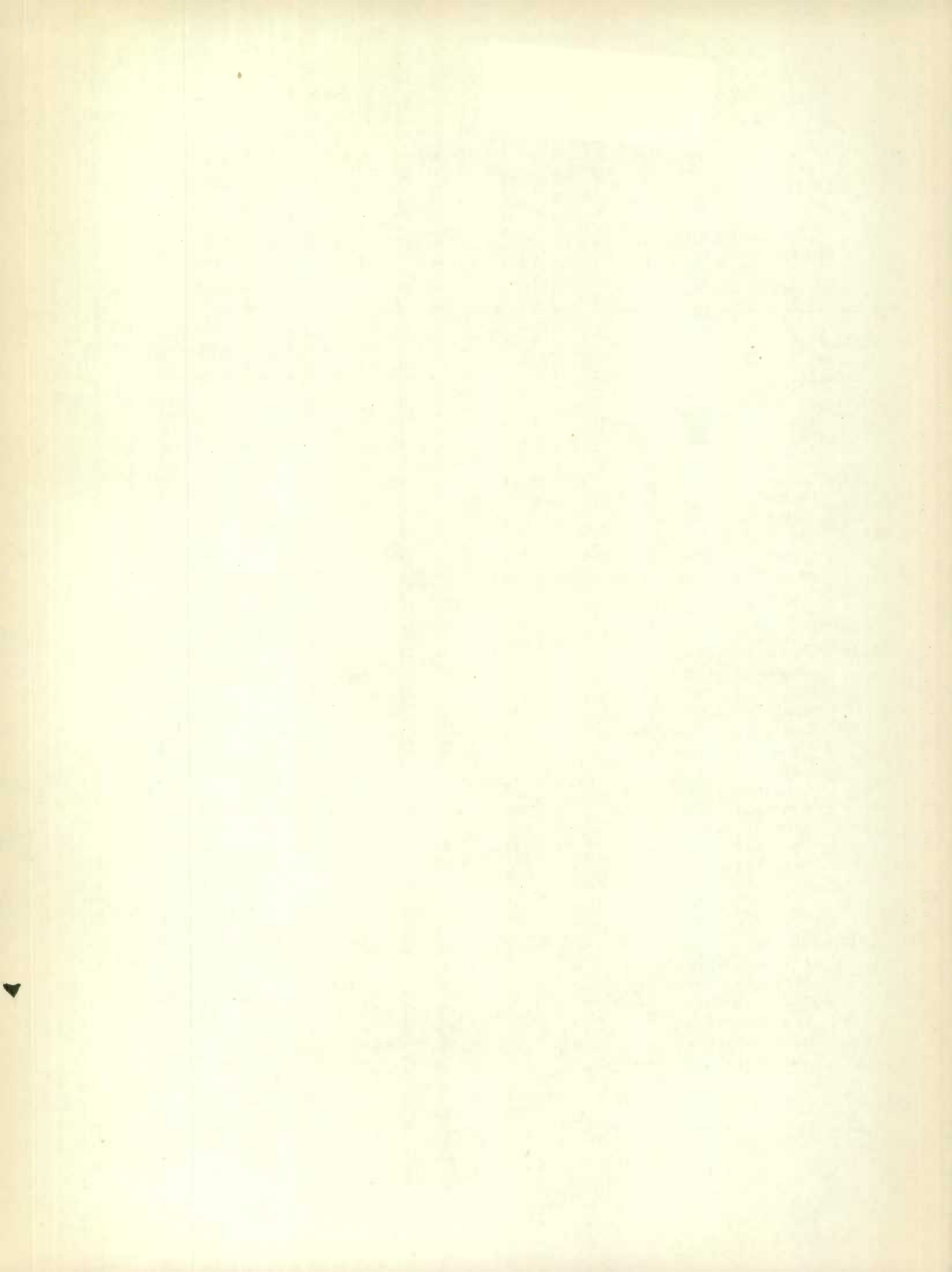
Table 10. - Consumption of Reclaim Rubber, in Total,
and by Monthly Averages, 1939 - 1946.

<u>Year</u>	<u>Total</u> <u>Pounds</u>	<u>Monthly</u> <u>Average</u> <u>Pounds</u>
1939	16,826,880	1,402,240
1940	18,896,640	1,574,720
1941	21,208,320	1,767,360
1942	28,008,960	2,334,080
1943	31,342,080	2,611,840
1944	28,277,760	2,356,480
1945	34,298,880	2,858,240
1946	31,673,600	2,639,467

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Table 11. - Consumption of Reclaim Rubber, by Types, and
by Months, July, 1945 to July, 1947.

Month	Total	Dispersions	Other than Dispersions
	Pounds	Pounds	Pounds
1945 - July	2,246,720	125,440	2,121,280
August	2,502,080	112,000	2,390,080
September	3,039,680	132,160	2,907,520
October	3,321,920	116,480	3,205,440
November	3,492,160	132,160	3,360,000
December	3,075,520	109,760	2,965,760
1946 - January	3,416,000	145,600	3,270,400
February	3,136,000	134,400	3,001,600
March	3,442,880	132,160	3,310,720
April	3,371,200	129,920	3,241,280
May	3,176,320	132,160	3,044,160
June	3,053,120	89,600	2,963,520
July	1,162,560	4,480	1,158,080
August	1,330,560	2,240	1,328,320
September	1,469,440	4,480	1,464,960
October	1,895,040	33,600	1,861,440
November	3,326,400	138,880	3,187,520
December	2,894,080	116,480	2,777,600
1947 - January	3,286,080	147,840	3,433,920
February	3,277,120	129,920	3,147,200
March	3,515,749	134,392	3,381,357
April	3,124,794	202,416	2,922,378
May	3,221,826	168,592	3,053,234
June	2,910,604	166,105	2,744,499
July	2,510,217	144,393	2,365,824



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