In Hefett

Published by Authority of the Hon. James A. MacKINNON, M.P., Minister of Trade and Commerce

CANADA

DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS

+ + + Census of Industry + + +

GENERAL MANUFACTURING STATISTICS

MONTHLY REPORT

ON

CONSUMPTION,

PRODUCTION AND INVENTORIES

OF RUBBER,

MAY, 1947.



DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

GENERAL MANUFACTURING STATISTICS

OTTAWA - CANADA

Dominion Statistician: Director, Census of Industry and Merchandising: Chief, General Manufacturing Statistics: Herbert Marshall W. H. Losee A. Cohen

CONSUMPTION, PRODUCTION AND INVENTORIES OF RUBBER

MAY, 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.

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 (b) 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 May, 1947. Table 2 gives details for April and May, 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 May, 1947.

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

	Stocks,	End of	Period	Domestic P	roduction	Domest	ic Consu	mption
Period	Natural	Syn- thetic	Reclaim	Synthetic	Reclaim	Natural	Syn- thetic	Reclaim
Monthly Averages								
1939	n.a.	n.a.	n.a.	-	-	2,635	-	626
1940	n.a.	n.a.	n.a.	-	-	3,083	1012 14	703
1941	n.a.	n.a.	n.a.	THOU THE STATE	-	4,436	The Days	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

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 May, 1947. - Concl.

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

		Stocks,	End of	Period	Domestic P	roduction	Domest	ic Consu	mption
Period		Natural	Syn- thetic	Reclaim	Synthetic	Reclaim	Natural	Syn- the tic	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
1046	- Jan.	3,025	4,995	2,150	4,255	290	674	3,446	1,525
1340	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
							0 7.55	B 305	3 000
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

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.

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

(Weight in Long Tons)

Type of Rubber	Inventory May 1,1947	Production	Inventory May 31,1947
Natural Rubber -			
Crude Rubber	3	-	3
Natural Latex	25		21
Total Natural Rubber	28		24
Synthetic Rubber -			
Buna S	1,326	3,231	1,506
Butyl	1,531	236	1,380
Ne oprene	75	-	73
All other	1	end .	1
Total Synthetic Rubber	2,933	3,467	2,960
Total Natural and	emetitude-min ving-discrete elevable-sign dispresionale- eleva-		
Synthetic Rubber	2,960	3,467	2,984
Reclaim Rubber -			
Dispersions	13	33	13
Other than dispersions	207	326	161
Total Reclaim Rubber	220	359	174
GRAND TOTAL	3,180	3,826	3,158

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

(Weight in Long Tons)

Type of Rubber	Inventory May 1, 1947	Receipts (imports, etc.)	Con- sumption	Sales (exports. etc.)	Inventory May 31, 1947
Natural Rubber - Crude Rubber	7,094 65	6,433 13	2,610	991	9,926
Total Natural Rubber Synthetic Rubber - Buna S Butyl Ne oprene All other	7,159 1,952 453 113 23	1,900 362 64 19	2,643 2,293 488 101 7	994 2 - 1	9,968 1,557 327 76 34
Total Synthetic Rubber Total Natural and Synthetic Rubber	2,5 41 9,700	2,345 8,791	2,889	3 997	1,994
Reclaim Rubber - Dispersions Other than dispersions	77 2,635	84 1,278	75 1,363	38	86 2,512
Total Reclaim Rubber	2,712	1,362	1,438	38	2,598
GRAND TOTAL	12,412	10,153	6,970	1,035	14,560

Section B. Natural Rubber

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

Summary data, by months, July, 1945 - May, 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.

Year	Total	Monthly Averages
	Pounds	Pounds
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

Table 4. - Consumption of Natural Rubber, in Total, by Showing also Percentage of Natural

	Service and the service of the service	Natu	ral Rubber	Used	
b	Month	Total	Percentage of natural to all synthetic and natural consumed	Tires and tubes	
		Pounds	Per cent	Pounds	
	1945				
		953,283	13,50	773,290	
2.	July	802,962	13.38	630,620	
3.		877,794	11.78	714,132	
4.	September	915,814	11.31	680,818	
5.	November	1,103,811	11.96	799.472	
6.	December	1,072,583	13.45	662,666	
0.	-000H00%	290,2900			
	1946				
7.	January	1,545,626	16.68	1,065,291	
8.	February	1,623,712	17.78	1,053,885	
9.	March	1,904,615	18.60	1,232,188	
0.	April	1,855,053	17. 85	1,213,693	
1.	May	2,116,145	20.34	1,404,350	
2.	June	1,576,499	29.26	964,289	
3,	July	387,538	22.72	98,340	
4.	August	513,149	30.21	153,674	
5.	September	658,184	31.64	251,846	
6.	October	970,340	29.18	488,392	
7.	November	4,163,330	37.89	3,372,805	
8.	December	4,145,095	40.06	3,310,537	
	1947	4 007 040	40.26	3,925,359	
9.	January	4,823,846	40.26	3,990,284	
0.	February	4,981,505	44.06	4,275,153	
1.	March	5,464,674	45.89		
2.	April	5,546,341	45.69	4,374,542	
3.	May	5,921,014	47.78	4,412,00	

End Products, and by Months, July, 1945 - May, 1947, to All Synthetic and Natural Consumed.

Laneous	Pounds	Wire and cable	Mechanical goods	(including re- pair cements and camelback)
ounds Pounds	Pounds	Pounds		
			Pounds	Pounds
	60,047		42,379	56,381
	68,874	50	46,023	35,802
	57,997	-	34,144	48,770
	130,738	50	22,441	58,114
	188,956 290,459	276 476	39,794 49,358	56,297 45,678
	307,094	3,904	97,337	40,398
	394,679	5,184	98,965	33,967
	468,530	11,313	121,777	25,122
	405,346	13,903	145,465	26,172
	447,913	17,829	139,353	33,058
	380,057		The state of the s	
	283,367			
	410,504			7
	413,019	25,019	225,497	64,576
25, 25, 18, 10,	192, 225, 248, 283, 410,	26,237 9,468 10,516 13,068 13,406 24,577 25,019	113,598 37,755 49,514 69,940 94,557 229,714	25,697 4,376 3,467 12,850 14,963 37,485 64,576

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

End	Products	Crude Rubber (excluding latex)	Latex	Total Crude and Latex
		pounds	pounds	pounds
	Tires and tubes Tire repair materials (including coments and	4,368,749	5,793	4,374,542
	camelback)	41,321	650	41.971
3.	Mechanical goods	301,986	240	302,226
	Wire and cable	25,197	-	25,197
	soles, etc.)	610,385	2,080	612,465
6.	Miscellaneous	146,947	42,993	189,940
	TOTAL	5,494,585	51,756	5,546,341

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

and Products	Crude Rubber (excluding latex)	Latex	Total Crude and Latex
	pounds	pounds	pounds
Tires and tubes	4,459,437	13,202	4,472,639
. Tire repair materials (including coments and			
camelback)	29.374	950	30.324
Mechanical goods	353.636	439	354.075
. Wire and cable	35,139	-	35,139
Footwear (including heels,			
soles, etc.)	790,151	1,869	792,020
. Miscellaneous	179,853	56,964	236,817
TOTAL	5,847,590	73,424	5,921,014

Section C. Synthetic Rubber

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

Summary data, by months, July, 1945 to May, 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.

Year	Total pounds	Monthly Averages pounds
1943	8,252,160 55,399,680 80,505,600 66,357,973	687,680 4,616,640 6,708,800 5,529,831

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

Month	Buna S	Butyl	Neoprene	Other	Total
	pounds	pounds	pounds	pounds	pounds
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 .		754,749	183,441	16,571	6,602,312
October		838,316	201,847	13,710	7,180,635
November		929.364	225, 173	12,860	8,087,852
December		799,161	197,200	18,765	6,899,739
1946 - January	6,525,620	966,922	210,560	18,912	7,722,014
February		934,575	228,480	22,881	7,510,769
March		923,442	286,720	27,825	8,384,776
April		991,946	248,640	21,544	8,535,909
May		1,030,234	277,760	35,315	8,288,574
June		819,974	253,120	19,177	6,607,461
July		79,115	165,760	8,567	1,317,936
August		62,611	143,360	6,022	1,185,707
September .	1,138,981	108,720	170,240	4,355	1,422,296
October		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		1,095,348	176,960	18,814	6,325,338
March		1,001,714	241,890	76,249	6,442,657
April		1,162,252	217.750	9.477	6,591,405
May		1,092,810	225,866	16,464	6,470,247
,,					

Table 8. - Consumption of Synthetic Rubber, in Total, Showing also Percentage of Synthetic

		Synthetic Rubber			
	Month	Total	Percentage of synthetic to all natural and synthetic consumed	Tires and tubes	
		Pounds	Per cent	Pounds	
	1945 -				
1.	July	6,109,854	86.50	4,631,684	
2.	August	5,197,110	86.62	3,851,675	
3.	September	6,602,312	88.26	5,080,875	
4.	October	7,180,635	88.69	5,397,864	
5.	November	8,087,852	88.04	6,270,671	
6.	December	6,899,739	86.55	5, 433, 895	
	1946 -				
7.	January	7,722,014	83.32	6,010,115	
8.	February	7,510,769	82.22	5,925,137	
9.	March	8,384,776	81.40	6,505,847	
10.	April	8,535,909	82.15	6,771,327	
11.	May	8,288,574	79.66	6,367,544	
12.	June	6,607,461	70.74	4,893,857	
13.	July	1,317,936	77.28	398,656	
14.	August	1,185,707	69.79	213,232	
15.	September	1,422,296	68.36	407, 187	
16.	October	2,354,796	70.82	1,038,757	
17.	November	6,825,676	62.11	5, 124, 731	
18.	December	6,202,059	59.94	4,566,027	
10	1947 -	7 150 040	EO 74	E 107 004	
19.	January	7,158,049	59.74	5, 193, 964	
20.	February	6,325,338	55.94	4,827,602	
21.	March	6,442,657	54.11	4,717,373	
22.	April	6,591,405	54.31	4,773,766	
23.	May	6,470,247	52.22	4,876,91	

by End Products, and by Months, July, 1945 - May, 1947, to all Natural and Synthetic Consumed.

Repair Materials					
(including re- pair cements and camelback)	Mechanical goods	Wire and cable	Footwear	Miscel- laneous	
Pounds	Pounds	Pounds	Pounds	Pounds	
216,041	400,920	114,868	468,071	278,270	1.
148,723	325,590	123,184	446,912	301,026	2.
180,014	425,949	141,347	484,311	289,816	3.
193,290	526,417	164,088	490,956	408,020	4.
175,365	554,080	195,285	510,643	381,808	5.
244,710	527,008	137,758	263,112	293,256	6.
101,899	503,540	159,907	429,845	516,708	7.
82,329	587,252	133,529	430,483	352,039	8.
65,958	733,371	141,410	529,734	408,456	9.
46,780	783,800	133,066	338,118	462,818	10.
79,239	735,671	163,081	448,789	494,250	11.
85,961	646,083	162,121	378,611	440,827	12.
6,183	293,623	103,735	140,492	375,247	13.
66	203,683	121,047	204,234	443,445	14.
14,018	250,209	130,068	205,736	415,078	15.
28,567	387,939	149,932	252,508	497,093	16.
112,394	722,992	141,144	270,868	453,547	17.
108,200	637,371	162,447	297,744	430,270	18.
95,289	849,129	182,955	377,469	459,243	19.
90,604	473,925	163,929	374,746	394,532	20.
62,548	669,792	167,902	519,374	305,670	21.
69,081	646,328	164,870	575,419	361,941	22.
50,647	586,287	230,750	401,007	324,645	23.

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

End	Products	Buna-S	Butyl	Neoprene	Other	Total Synthetic
		pounds	pounds	pounds	pounds	pounds
1.	Tires and tubes	3,621,866	1,151,900	- CH		4,773,766
2.	Tire repair materials					
	(including coments and					THE PERSON NAMED IN
	camelback)	68,684	397	-	-	69,081
3.	Mechanical goods	536,241	943	106,702	2,442	646,328
4.	Wire and cable	137,258	244	27,368	-	164,870
5.	Footwear (including heels,					
	soles, etc.)	573,598	-	1,821	-	575,419
6.	Miscellaneous	264,279	8.768	81,859	7,035	361,941
		leg III iII	Edita His	BUILDING IN		
	TOTAL	5,201,926	1,162,252	217,750	9,477	6.591,405
	TOTAL **********	0,001,000	1,100,000	211,100	0,211	0,001,100

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

End	Products	Buna-S	Butyl	Neoprene	Other	Total Synthetic
		pounds	pounds	pounds	pounds	pounds
1	Mines and hibes	7 704 660	1 000 242			4 976 911
	Tire repair materials (including cements and	3,794,669	1,082,242			4,876,911
	camelback)	50,600	47	-		50,647
3.	Mechanical goods	457,628	1,861	121,688	5,110	586,287
	Wire and cable	201,449	120	29,181	- 1	230,750
5.	Footwear (including heels, soles, etc.)	399,720		1,229	58	401,007
6.	Miscellaneous	231,041	8,540	73,768	11,296	324,645
	TOTAL	5,135,107	1,092,810	225,866	16,464	6,470,247

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 disperions 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 May, 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.

Year	Total Pounds	Monthly Average Pounds
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

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

Month	Total	Dispersions	Other than Dispersions
	Pounds	Pounds	Pounds
945 -			
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
946 -			
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
947 -			
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



