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GENERAL MANUFACTURING STATISTICS



MONTHLY REPORT

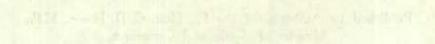
ON

CONSUMPTION,
PRODUCTION AND INVENTORIES

OF RUBBER
MARCH, 1948



OTTAWA 1948





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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

MARCH, 1948.

Commencing with March 1947, the Dominion Bureau of Statistics undertook the continuance and publication, in a modified form, of the monthly rubber statistics developed during the years of control. Historical tables were prepared, largely from the Rubber Control records, and are included in this report in order that valuable material may thus be presented in a condensed form, and also that relationships may be established for the evaluation of current data. These statistics show clearly, during the later war years, the impact on rubber consumers of the loss of natural rubber supplies, and the consequent growth of the synthetic rubber industry. They also evidence, in the post-war period, the gradually increasing availability of natural rubber, and, since they show consumption by broad end products divisions, changes in the percentages of natural and synthetic consumed in each division may be said to contain inferences as to the suitabilities of each type.

Early publications in this series contained a Rubber Balance Statement, in which an attempt was made to account for all rubber entering or produced in Canada. 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 a total since the reestablishment 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 Ganada, and should be capable of being so-related with new production and export - import date (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 - 1947, and actual months, September, 1945 to March, 1948. Table 2 gives details for February and March, 1948.

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 - 1947, and Actual Monthly Totals, September 1945 to March, 1948.

Weights	are	given	in	Long	Tons	(2.240	pounds)	1
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	Stocks,	End of P	eriod	Domestic Production		Domestic Consumption		
Period	Natural	Syn- thetic	Re- claim	Syn- thetic	Re- claim	Natural	Syn- thetic	Re- claim
Monthly Averages				F				
1939:	n.a.	n.a.	n.a.	11	-	2,635	-	626
1940	n.a.	n.a.	n.a.	-	-	3,083		703
1941	n.a.	n.a.	n.a.	-	- 9	4,436	ind-	789
1942	n.a.	n.a.	4,560	- 1	der	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
1946	3,662	5,592	2,786	4,248	331	792	2,468	1,178
1947	6,992	4,333	2,672	3,533	344	2,690	2,432	1,360

Table 1. - Summary Statement of all Rubber Stocks, Domestic Production, Domestic Consumption showing Monthly Averages, 1939 - 1947, and Actual Monthly Totals, September, 1945 to March, 1948. - Concluded.

Weights are given in Long Tons (2,240 pounds) Domestic Stocks, End of Period Domestic Consumption Production Period Re-Syn-Re-Syn-Syn-Re-Natural Natural thetic claim thetic claim thetic claim Monthly Totals 1945 - Sept. 4,517 3,938 2,617 2,783 265 383 2,948 1,357 2,456 Oct. 4,637 4,146 3,541 327 395 3,206 1,483 4,165 4,106 2,102 3,984 353 3,613 1,559 Nov. 473 2,219 Dec. 3,703 4,124 3,575 249 461 3,082 1,373 1946 - Jan. 3,025 4,995 2,150 4,255 290 674 3,446 1,525 2,466 4,183 2,228 3,818 326 707 3,356 Feb. 1,400 2,358 3,000 3,871 835 3,741 Mar. 3,816 343 1,537 2,845 3,773 2,575 4,317 Apr. 288 817 3,808 1,503 2,572 2,278 3,332 3,707 341 938 3,699 1,418 May 1,775 3,978 2,409 June 4,542 300 702 2,946 1,363 7,058 2,021 2,672 4,282 264 172 588 519 July 3,054 2,929 9,045 4,570 352 229 530 Aug. 594 8,742 4,307 3,235 3,728 Sept. 349 294 635 656 7,734 3,530 Oct. 5,752 4,526 344 433 1,051 846 7,661 5,829 3,194 4,634 414 Nov. 1,854 3,048 1,485 4,786 Dec. 5,885 4,565 3,455 356 1,850 2,768 1,292 1947 - Jan. 3,195 3,195 3,729 4,316 4,408 329 2,153 1,533 2,224 4,551 4,024 Feb. 2,876 3,114 330 2,823 1,463 Mar. 4,473 5,344 2,872 4,466 360 2,440 2,876 1,570 7,187 5,473 2,931 4,628 360 2,476 2,942 1,395 Apr. 4,953 2,772 359 2,889 9,992 3,467 2,643 1,438 May 10,108 4,488 2,599 3,392 334 2,627 2,540 1,299 June 3,733 225 2,059 10,045 2,629 3,480 2,433 1,120 July 2,192 1,719 Aug. 9,679 4,269 2,680 3,533 298 983 8,129 3,349 2,451 1,944 337 3,226 2,113 1,393 Sept. 7,167 3,475 2,440 3,034 424 3,330 2,080 1,397 Oct. 1,417 372 3,216 1,962 5,260 3,846 2,093 2,953 Nov. 2,282 397 1,980 1,314 Dec. 5,264 4,200 3,064 3,314 1943 - Jan. 5,739 3,921 2,246 3,648 371 3,458 2,081 1,339 1,216 Feb. 5,704 4,062 2,162 3,388 388 3,474 1,886 2,041 3,882 1,359 3,862 3,560 427 1,797 Mar. 5,585

Note: Poundage of Guayule Rubber included in Natural Rubber totals in 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.

Ru	bber.				
	(Weight	in Long To	ons)		
Type of Rubber	Invent March 1,		Production		entory 31, 1948
Natural Rubber -					
Crude Rubber	-		-		-
Natural Latex	73		_		59
Total Natural Rubber	73		WH4		59
Synthetic Rubber -					
Buna S	889		2,909		921
Butyl	1,075		648	1,	260
Neoprene	50				46
All other	14		3		16
Total Synthetic Rubber .	2,028		3,560	2,	243
Total Natural and Synthetic Rubber	2,101		3,560	2,	302
Reclaim Rubber -					
Dispersions	23		42		28
Other than dispersions	124		385		116
Total Reclaim Rubber	147		427		144
GRAND TOTAL	2,248		3,987	2,	446
Table 2(b) CONSUMPTION.		f Manufactu	rers Consumi	ng Rubber	
	Inventory	Receipts	Con-	Sales	Inventory
Type of Rubber	Mar. 1,	(imports,	sumption	(exports,	Mar. 31,
Type of Itabbet	1948	etc.)	5 da. 15 01 011	etc.)	1948
Natural Rubber -					
Crude Rubber	5,430	3,692	3,790	15	5,317
Natural Latex	201	102	92	2	209
Total Natural Rubber	5,631	3,794	3,882	17	5,526
Synthetic Rubber -					
Buna S	1,581	1,178	1,506	75	1,178
Butyl	317	183	205	1	294
Neoprene	106	76	74	1	107
All other	30	23	12	1	40
Total Synthetic Rubber	2,034	1,460	1,797	78	1,619
Total Natural and		0.00	5 0.00	~ **	F1 7 4 5
Synthetic Rubber	7,665	5,254	5,679	95	7,145
Reclaim Rubber -					
Dispersions	66	78	67	5 Di 14	77
Other than dispersions	1,949	1,168	1,292	5	1,820
Total Reclaim Rubber	2,015	1,246	1,359	5	1,897
GRAND TOTAL	9,680	6,500	7,038	100	9,042

Section B, Natural Rubber

The February and March, 1948 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, March, 1946 to March, 1948 are shown in Table 4, and 1939 - 1947 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 date 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 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, 1939-1947

Year	Total Pounds	Monthly Averages 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
1947	72,294,000	6,024,500

Table 4. - Consumption of Natural Rubber in Total, by End Products, and by Months, March, 1946 - March, 1948, Showing also percentage of Natural to All Synthetic and Natural Consumed.

27 43		Natural				e manufacture	and the same of th		
Month		Total	Fercentage of all rubber	Tires and tubes	Repair Materials	Mechanical Goods	Wire and cable	Footwear	Other
1-4-24		000's	Per cent	000's pounds	000's pounds	000's poun d s	000's pounds	000's pounds	000's
1946 - Ma	reh	1,905	18.60	1,232	25	122	11	469	46
Ap	ril	1,855	17.85	1,214	26	145	14	405	50
Ma	y	2,116	20.34	1,404	33	139	18	448	74
Ju	ne	1,576	29.26	964	26	114	26	380	67
Ju	ly	388	22.72	98	4	38	9	193	45
Λu	gust	513	30.21	154	3	50	11	225	71
Se	ptember	658	31.64	252	13	70	13	248	62
Oc.	tober	970	29.18	488	15	95	13	283	76
No	vember	4,163	37 39	3,373	37	230	25	411	88
	cember	4,145	40.06	3,311	65	225	25	413	106
1947 - Ja	nuary	4,824	40.26	3,925	56	256	20	436	130
	bruary	4.982	44.06	3,990	50	290	24	507	119
	rch	5,465	45.89	4,275	42	323	22	624	178
	ril	5,546	45.69	4,375	42	302	25	612	190
	У		47.78	4,473	30	354	35	792	237
	ne	5,885	50.84	4,361	39	387	45	788	265
	ly	5,448	54.16	4,133	36	410	14	641	214
	gust	4,909	56.63	3,285	38	366	36	962	222
	ptember	7,228	60.42	5,240	47	581.	53	991	316
	tober	7,459	61.44	5,348	56	701	83	939	332
	vdmber	7,205	62.10	5,303	56	593	59	884	310
	cember	7,422	62.59	5,545	57	623	92	813	292
De	COMOCI	, , 200		,,,,,,					
1948 - Ja	nuary	7,744	62.41	5,636	(1)	(2)	88	898	1,122
	bruary	7,782	64.82	5,743	(1)	(2)	71	958	1,010
	rch	8,695	68.36	6,215	(1)	(2)	90	1,115	1,275

⁽¹⁾ Included with "tires and tubes": (2) Included with "other products".

Table 5(a). - Consumption of Natural Rubber, by Type and by End Product Classification.
February, 1948.

End	Products	Crude Rubber (excluding latex)	Latex	Total Crude and Latex
7		Pounds	Pounds	Founds
7 .	Tires and tubes, including tire repair materials	5,716,235	26,783	5,743,018
2.	Wire and cable	70,883		70,883
3.	Footwear (including heels, soles, etc.)	9 5 5,781	2,182	957,963
4.	Other products	873,680	136,641	1,010,321
	TOTAL	7,616,579	165,606	7,782,185

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

March, 1948.

End	Products	Crude Rubber (excluding latex)	Latex	Total Crude and Latex
		Pounds	Pounds	Pounds
1.	Tires and tubes, including tire repair materials	6,189,858	25,085	6,214,943
2.	Wire and cable	89,967	-	89,967
3.	Footwear (including heels, soles, etc.)	1,113,195	2,202	1,115,397
4.	Other products	1,095,693	179,503	1,275,196
	TOTAL	8,488,713	206,790	8,695,503

Tire repair materials, now included with tires and tubes, and mechanical goods, now included with other products, were shown separately previous to January 1948. The present grouping is by arrangement with The Rubber Association of Canada.

Section C. Synthetic Rubber

The February and March, 1948 consumption of Synthetic Rubber is shown by type, and by end products classification, in Table 9.

Summary data, by months, March 1946 to March 1948, are shown in Tables 7 and 8, while 1943 - 1947 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 - 1947.

Year	Total	Monthly Average
1943	8,252,160 pounds	687,680 pounds
1944	55,399,680 "	4,616,640 "
1945	80,505,600 "	6,708,800 "
1946	66,357,973 "	5,529,831 "
1947	65,367,660 "	5,447,305

Table 7. - Consumption of Synthetic Rubber, by Types and by Months, March, 1946 to March, 1948.

	Month	Buna S	Butyl	Neoprene	Other	Total
		Pounds	Pounds	Pounds	Pounds	Pounds
1946 -	March	7,146,789	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	*	108,720	170,240	4,355	1,422,296
	October		246,885	176,960	9,066	2,354,796
	November		1,029,746	237,440	10,268	6,825,676
	December		953,020	237,680	10,639	6,202,059
947 -	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	16,484	6,470,247
	June		960,038	219,914	63,014	5,690,370
	July		759,452	146,944	15,129	4,611,050
	August		665,754	116,599	10,323	3,852,631
	September		882,330	177,278	13,099	4,734,013
	October		858,690	174,591	18,630	4,659,579
	November		815,672	169,987	16,585	4,396,522
	December		925,781	122,208	7,035	4,435,799
1948 -	January	3,593,044	923,787	130,949	16,929	4,664,709
	February		733,907	146,740	22,880	4,223,55]
	March		460,765	165,141	26,268	4,025,863

Table 8. - Consumption of Synthetic Rubber, in Total, by End Products, and by Months, March, 1946 - March, 1948 Showing also Percentage of Synthetic to all Natural and Synthetic Consumed.

	Dynu	netic Rubber	Used in the Manufacture of -						
onth	Total	Percentage of all rubber	Tires and tubes	Repair Materials	Mechanical Goods	Wire and cable	Footwear	Other Products	
	000's pounds	Per cent	000's pounds	000's pounds	000's	000's	000's	000's	
946 - March	8,385	81.40	6,506	66	733	141	530	408	
April		82.15	6,771	47	784	133	338	463	
May		79.66	6,368	79	736	163	449	494	
June		70.74	4,894	86	646	162	379	441	
July		77.28	399	6	294	104	140	375	
August		69.79	213	_	204	121	204	443	
September		68.36	407	14	250	130	206	415	
October		70.82	1,039	29	388	150	253	497	
November	,	62.11	5,125	112	723	141	271	454	
December	*	59.34	4,566	108	637	162	298	430	
947 - January	7 150	59.74	5,194	95	849	183	377	459	
February		55.94	4,828	91	474	164	375	395	
March		54.11	4,717	63	670	168	519	306	
April		54.31	4,774	69	646	165	575	362	
May		52.22	4,877	51	586	231	401	325	
June	-	49.16	4,340	37	616	164	210	324	
July		45.84	3,532	37	446	114	307	175	
_	4,611	43.97	2,876	33	311	155	314	163	
August	4,734	39.58	3,370	37	517	208	378	224	
September	4,660	38.45	3,385	27	436	190	365	257	
October	4,397	37.90	3,158	45	368	253	323	250	
November	4,436	27.41	3,381	61	334	157	314	189	
December	4,400	01.24	, , ,		-ANT 1				
0.40	4,665	37.59	3,495	(1)	(2)	203	365	602	
948 - January		35.18	3,076	(1)	(2)	183	364	600	
February	4,223	31.64	2,830	(1)	(2)	256	338	602	

⁽¹⁾ Included with "tires and tubes" (2) Included with "other products".

Table 9(a). - Consumption of Synthetic Rubber, by Types and by End Product Classification, February, 1948.

End	Products	Buna S	Butyl	Neoprene	Other	Total Synthetic
		Pounds	Pounds	Pounds	Pounds	Pounds
1.	Tires and tubes, including tire repair materials	2,349,819	726,122	199	dian	3,076,140
2.	Wire and cable	134,305	150	48,697		183,152
3.	Footwear (including heels, soles, etc.)	3 62, 39 7		1,517	4946	363,914
4.	Other products	473,503	7,635	96,327	22,880	600,345
	TOTAL	3,320,024	733,907	146,740	22,880	4,223,551

Table 9(b). - Consumption of Synthetic Rubber, by Types and by End Product Classification, March, 1948.

End	Products	Buna S	Butyl	Neoprene	Other	Total Synthetic
		Pounds	Pounds	Pounds	Pounds	Pounds
1.	Tires and tubes, including tire repair materials2,	,375,503	453,867	299		2,829,669
2.	Wire and cable	199,305	-	56,831	-	256,136
3.	Footwear (including heels, soles, etc.)	337,302	190	758		338,250
4.	Other products	461,519	6,708	107,253	26,268	601,748
	TOTAL	373,629	460,765	165,141	26,268	4,025,803

Tire repair materials, now included with tires and tubes, and mechanical goods, now included with other products, were shown separately previous to January 1948. The present grouping is by arrangement with The Rubber Association of Canada.

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 breakdown 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 - 1947 with monthly averages for each year and broken down into Dispersions and Other than Dispersions, by actual months, July, 1945 to March, 1948.

For summary data on Reclaim, Synthetic, 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 - 1947.

Year		<u>Total</u> Pounds	Monthly Averages 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
1947		36,418,788	3,034,899

Table 11. - Consumption of Reclaim Rubber, by Types and by Months, July, 1945 to March, 1948.

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	3,433,920	147,840	3,286,080
February	3,277,120	129,920	3,147,200
March	3,515,749	134,392	3,381,557
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
August	2,202,171	130,975	2,071,196
September	3,122,228	158,296	2,963,932
October	3,129,432	145,241	2,984,191
November	3,174,704	140,170	3,034,534
December	2,943,863	125,594	2,818,269
IOAO Innuewa	7 000 047	117 040	
1948 - January	3,000,043	113,948	2,886,095
February	2,723,907	115,805	2,608,102
March	3,043,157	149,175	2,893,982

