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### CANADA

DOMINION BUREAU OF STATISTICS

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GENERAL MANUFACTURING STATISTICS

MONTHLY REPORT

ON

CONSUMPTION,

PRODUCTION AND INVENTORIES

OF RUBBER,

SEPTEMBER, 1947.



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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

## SEPTEMBER, 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 sufficently 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, toghether 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 September, 1947. Table 2 gives details for August and September, 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 September, 1947.

Weights	are	given	in	Lone	Tons	12.240	nounds)

		Stocks,	End of 1	Period	Domestic	Production	Domestic	Consump	tion
Period		Natural	Syn- thetic		Syn- thetic	Re- claim	Netural	Syn- thetic	Re- claim
Monthly	Averages								
1939	96660	n.a.	n.a.	n.a.	-110	~	2,635	- 1	626
1940	• • • • •	n. a.	n,e.	n.a.	-	- 11	3,083	**	703
1941		n.a.	n.a.	n.a.		-	4,436	-1 = 17	789
1942		n.a.	n.a.	4,560	-	- 1-11	3,512	1100	1,042
1943	00046	8,165	2,292	4,822	210	392	2,434	307	1,166
1944		5,399	3,641	3,516	2,902	26 <b>3</b>	799 2,	061	1,052
1945		3,703	4,107	2,219	3,810	276	491 2,	995	1,276

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

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

	Stock	s, end of	Period	Domestic	Product	tion Domes	Domestic Consumption		
Period	Natural	Syn- thetic	Re- claim	Syn- thetic	Re- claim	Natural	Syn- thetic	Re- claim	
Monthly Totals									
1945 - July Aug Sept Oct Nov Dec	4,007 4,798 4,517 4,637 4,165 3,703	5,284 4,989 3,938 4,146 4,106 4,124	2,700 2,809 2,617 2,456 2,102 2,219	4,007 3,399 2,783 3,541 3,984 3,575	201 309 265 327 353 249	415 349 383 395 473 461	2,728 2,319 2,948 3,206 3,613 3,082	1,003 1,117 1,357 1,483 1,559 1,373	
1946 - Jan Feb	3,025 2,466 3,000 2,845 2,278 1,775 2,021 2,929 4,307 5,752 7,661 5,885	4,995 4,183 3,871 3,773 3,332 3,978 7,058 9,045 8,742 7,734 5,829 4,565	2,150 2,228 2,358 2,575 2,572 2,409 2,672 3,054 3,235 3,530 3,194 3,455	4,255 3,818 3,816 4,317 3,707 4,542 4,282 4,570 3,728 4,526 4,634 4,786	290 326 343 288 341 300 264 352 349 344 414 356	674 707 835 817 938 702 172 229 294 433 1,854	3,446 3,356 3,741 3,808 3,699 2,946 588 530 635 1,051 3,048 2,768	1,525 1,400 1,537 1,505 1,418 1,363 519 594 656 846 1,485 1,292	
1947 - Jan Feb Mar Apr May June July Aug Sept	3,729 2,876 4,473 7,187 9,992 10,108 10,045 9,679 8,129	4,316 4,551 5,344 5,473 4,953 4,488 3,733 4,269 3,349	3,195 3,114 2,872 2,931 2,772 2,599 2,629 2,680 2,451	4,408 4,024 4,466 4,628 3,467 3,392 3,480 5,533 1,944	329 330 360 360 359 334 225 298 337	2,153 2,224 2,440 2,476 2,643 2,627 2,433 2,192 3,226	3,195 2,823 2,876 2,942 2,889 2,540 2,059 1,719 2,113	1,533 1,463 1,570 1,395 1,438 1,299 1,120 983 1,393	

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)

	Inventory		Inventory
Type of Rubber	September 1, 1947	Production	September 30, 1947
Natural Rubber -			
Crude Rubber	_	4	_
Natural Latex	124	-	132
Total Natural Rubber	, 124	Spales	132
Synthetic Rubber - Buna S	1,273	1,471	710
Butyl 2000000000000000000000000000000000000		473	1,250
Neoprene		***	41
All other		494	1_
Total Synthetic Rubber	2,604	1,944	2,002
Total Natural and Synthe	etic		
Rubber	2,728	1,944	2,134
Reclaim Rubber -			
Dispersions	14	40	33
Other than dispersions	145	297	139
Total Reclaim Rubber	159	337	172
GRAND TOTAL	2,887	2,281	2,306

Table 2(b). - CONSUMPTION. Statement of Manufacturers Consuming Rubber.
(Weight in Long Tons)

(11020-1	- 411 50 10 1	220)		
September 1,	(imports,	Con- sumption	Sales (exports, etc.)	Inventory September 30, 1947
9,387	1,660	3,165	21	7,861
	44	61	15	136
9,555	1,704	3,226	36	7,997
. 1,312	1,346	1,634	_	1,024
. 223	402	394	-	231.
97	45	79	-	61
. 33	5	6	1	31
. 1,665	1,796	2,113	1	1,347
netic				
11,220	3,500	5,339	37	9,344
. 77	65	70	-	72
2,444	1,086	1,323		2,207
2,521	1,151	1,393		2,279
. 13,741	4,651	6,732	37	11,623
	Inventory September 1, 1947  9,387 168 9,555  1,312 223 97 33 1,665 netic 11,220  77 2,444 2,521	Inventory Receipts (imports, 1947 etc.)  9,387 1,660 168 44 9,555 1,704  1,312 1,346 223 402 97 45 33 5 1,665 1,796 etic 11,220 3,500  77 65 2,444 1,086 2,521 1,151	September 1, (imports, sumption 1947 etc.)  1, 660	Inventory Receipts Con- Sales (exports, sumption etc.)  1947

### Section B. Natural Rubber

The August and September 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 to September, 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 L. 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 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

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

		N	atural Rubber		Use	d in the manuf	acture of -		
Month		Total	Percentage of all rubber	Tires and tubes	Repair Materials	Mechanical Coods	Wire and Cable	Footwear	Miscel- laneous
		0001s 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		29.26	964	26	114	26	380	67
	July	388	22,72	98	4	38	9	193	45
	August		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 .	-	40.06	3,311	65	225	25	413	106
1947 -	January	4.824	40.26	3,925	56	256	20	436	130
		4,982	44.06	3,990	50	290	24	507	119
	March		45.89	4,275	42	323	- 22	624	178
	April	-	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
	August	4,909	56.03	3,285	38	366	36	962	222
	September.	7,228	60.42	5,240	47	581	53	991	316

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

E	and Products	Crude Rubber (excluding latex)	Latex	Total Crude and Latex
	and the state of t	pounds	pounds	pounds
1.	Tires and tubes	3,276,959	8,063	3,285,022
	back)	37,423	250	37,673
3.	Mechanical goods	366,294	-	366,294
4.	Wire and cable	36,168	-	36,168
5.	Footwear (including heels,			
	soles, etc.)	959,971	2,155	962,126
6.	Miscellaneous	128,235	93,774	222,009
	TOTAL	4,805,050	104,242	4,909,292

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

End Products	Crude Rubber (excluding latex)	Latex	Total Crude and Latex
	pounds	pounds	pounds
<ol> <li>Tires and tubes</li> <li>Tire repair materials (including cements and camelous)</li> </ol>	5,230,887	9,003	5,239,890
back) and camer-	46,511	75	46,586
Mechanical goods		165	580,726
4. Wire and cable		- 1984	52,723
soles, etc.)	989,255	2,091	991,346
6. Miscellaneous	190,490	126,096	316,586
TOTAL	7,090,427	137,430	7,227,357

#### Section C. Synthetic Rubber

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

Summary data, by months, September, 1945 to September, 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		Monthly Av	erage
1943	3 2 2 9 9 9 9 9 9 9 9 9 9 9	8,252,160	pounds	687,680	pounds
1944	800000000000	55, 399, 680	1011	4,616,640	11
1945	000000000000	80,505,600	ü	6,708,800	11
1946	0000000000000	66, 357, 973	ii —	5,529,831	11

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

Mont	h	Buna S	Butyl	Neoprene	Other	Total
		pounds	pounds	pounds	pounds	pounds
1945 -	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 sasoooooooooooo	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
	August	3,059,955	665,754	116,599	10,323	3,852,631
	September	3,661,306	882,330	177,278	13,099	4,734,013

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

		Synt	hetic Rubber		Us	ed in the man	ufacture of	_	
Month		Total	Percentage of all rubber	Tires and tubes	Repair Materials	Mechanical Goods	Wire and Cable	Footwear	Miscel- laneous
		000's		000 s	0001s	000's	0001s	000°s	000's
		pounds	Per cent	pounds	pounds	pounds	pounds	pounds	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	465
	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	3 <b>9</b> 9	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
947 -	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	87	446	114	307	175
	August	3,853	43.97	2,876	35	311	155	314	163
	September.	4,734	39.58	3,370	37	517	208	378	224

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

End	Products	Buna S	Butyl	Neoprene	Other	Total Synthetic
		pounds	pounds	pounds	pounds	pounds
2.	Tires and tubes	2,219,906	656,180			2,876,086
	back)	32,811	110	-	-	32,921
0	Mechanical goods	246,174	3,361	57,454	4,467	311,456
0	Wire and cable	134,435		20,750	-	155,185
	soles, etc.)	311,992		1,072	858	313,922
0	Miscellaneous	114,637		37,323	4,998	163,061
	TOTAL , , , , , , , , , , , , , , , , , , ,	3,059,955	665,754	116,599	10,323	3,852,631

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

End Products	Buna S	Bu ty.l	Neoprene	Other	Total Synthetic
	pounds	pounds	pounds	pounds	pounds
l. Tires and tubes	2,500,01	7 870,279		B. Lr	3,370,296
back) opposition to the back)	36,90	4 145		-	37,049
Mechanical goods	421,06		86,770	6,446	517,015
Wire and cable	168,23	66 –	39,609	well	207,845
soles, etc.)	374,58	6 -	2,088	1,356	378,030
S. Miscellaneous	160,50	9,169	48,811	5,297	223,778
TOTAL	3,661,30	6 882,330	177,278	13,099	4,734,013

### 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 beings 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 September, 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	000000000000000000	16,826,880	1,402,240
1940	00000000000000000000	18,896,640	1,574,720
1941		21,208,320	1,767,360
1942	• • • • • • a a a a a a a a a a a a a a	28,008,960	2,334,080
1943		31,342,080	2,611,840
1944	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28,277,760	2,356,480
1945	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	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 September, 1947.

Month	Total	Dispersions	Other than Dispersions
	Pounds	Pounds	Pounds
1945 - July	2,246,720 2,502,080 3,039,680 3,321,920 3,492,160 3,075,520	125,440 112,000 132,160 116,480 132,160 109,760	2,121,280 2,390,080 2,907,520 3,205,440 3,360,000 2,965,760
February  March  April  May  June  July  August  September  October  November  December	3,416,000 3,136,000 3,442,880 3,371,200 3,176,320 3,053,120 1,162,560 1,330,560 1,469,440 1,895,040 3,326,400 2,894,080	145,600 134,400 132,160 129,920 132,160 89,600 4,480 2,240 4,480 33,600 138,880 116,480	3,270,400 3,001,600 3,310,720 3,241,280 3,044,160 2,963,520 1,158,080 1,328,320 1,464,960 1,861,440 3,187,520 2,777,600
1947 - January February March April June July August September	3,286,080 3,277,120 3,515,749 3,124,794 3,221,826 2,910,604 2,510,217 2,202,171 3,122,228	147,840 129,920 134,392 202,416 168,592 166,105 144,393 130,975 158,296	3,433,920 3,147,200 3,381,357 2,922,378 3,053,234 2,744,499 2,365,824 2,071,196 2,963,932



