33-003

10 R 1 5 15

6.3

Published by Authority of the Rt. Hon. C. D. Howe, M.P., Minister of Trade and Commerce The Horton

#### CANADA

DOMINION BUREAU OF STATISTICS

+ + + Census of Industry + + +

GENERAL MANUFACTURING STATISTICS

MONTHLY REPORT
ON

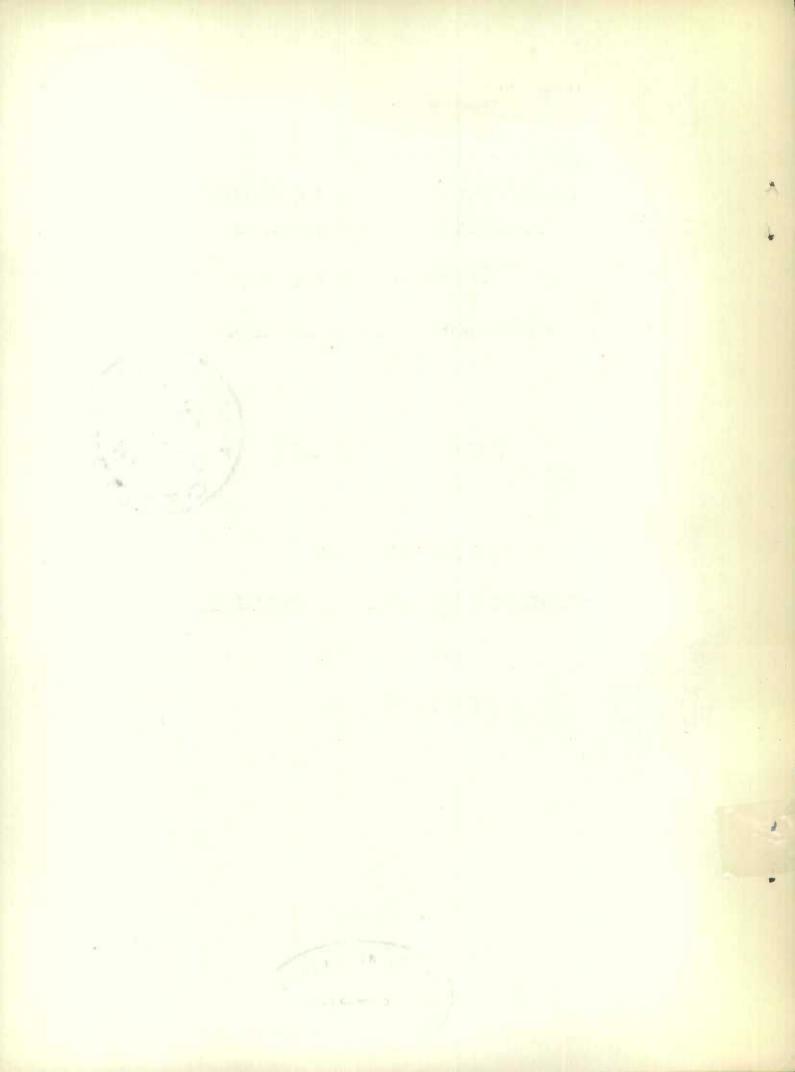


CONSUMPTION,
PRODUCTION AND INVENTORIES

OF RUBBER

FEBRUARY, 1948





DEPARTMENT OF TRADE AND COMMERCE DOMINION BUREAU OF STATISTICS CENERAL MANUFACTURING STATISTICS OPTAWA - CANADA

Dominion Statistician:
Director, Census of Industry and Merchandising:
Chief General Manufacturing Statistics:

W.H. Losee A. Cohen

#### CONSUMPTION, PRODUCTION AND INVENTORIES OF RUBBER

#### FEBRURY, 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 out-lined 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 date (as compiled by External Trada 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, August, 1945 to February, 1948. Table 2 gives details for January, 1948 and February, 1948.

For detailed data for consumption, by specific types, and by end products classifications, where the 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, August, 1945 to February, 1948.

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

Period	Stocks, End of Period			Domestic Production		Domestic Consumption		
161104	Natural	Syn- thetic	Re=	Syn- thetic	Re- claim	Natural	Syn- thetic	Re- claim
Monthly Averages			1					
1939	n.a.	n.a.	n.a.	_	-	2,635	-	626
1940	n.a.	n,a.	n,a,	60	-	3,083	-	.703
1941	n.a,	n.a.	n.a.	an	100	4,436	-	<b>7</b> 89
1942	n,a,	n,a.	4,560	-	-	3,512	en en	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, August, 1945 to February 1948. - Concluded.

Weights are given in Long Tons (2,240 pounds) Domestic Domestic Consumption Stocks, End of Period Production Period Re-Re-Syn-Re-Syn-Syn-Natural Natural claim thetic claim thetic claim thetic Monthly Totals 2,319 1,117 4,989 2,809 3,399 309 349 1945 - Aug. .... 4,798 265 383 2,948 1,357 3,938 2,617 2,783 4,517 Sept. ... 4,637 395 3,206 1,483 4,146 2,456 3,541 327 Oct. .... 4,106 3,984 353 473 3,613 1,559 4,165 2,102 Nov. . . . . . 1,373 3,703 461 3,082 4,124 2,219 3,575 249 Dec. .... 1,525 4,255 290 674 3.446 4,995 2,150 3,025 1946 - Jan. .... 707 3,356 1,400 4,183 2,228 3,818 326 Feb. .... 2,466 2,358 343 3,741 1.537 835 Mar. .... 3,000 3,871 3,816 4,317 2,575 288 817 3,808 1,503 2,845 3,773 apr. .... 1,418 2,278 3,332 2,572 3,707 341 938 3,699 May .... 1,363 1,775 702 2,946 3,978 2,409 4,542 300 June .... 172 588 519 7,058 2,672 4,282 264 2,021 July .... 4,570 229 530 594 3,054 352 2,929 9,045 Aug. ... 4,307 635 656 8,742 3,235 3,728 349 294 Sept. ... 5,752 7,734 4,526 1,051 846 3,530 344 433 Oct. .... 4,634 1,485 3,194 1,854 3,048 5,829 414 7,661 Nov. .... 1,292 3,455 5,885 4,786 356 1,850 2,768 Dec. .... 4,565 3,729 4,316 3,195 4,408 329 2,153 3,195 1,533 1947 - Jan. .... 4,024 330 2,224 2,823 1,463 4,551 3,114 2,876 Feb. .... 4,466 1,570 2,872 360 2,440 2,876 4,473 5,344 Mar. .... 1,395 2,931 2,476 2,942 7,187 4,628 360 5,473 Apr. .... 2,643 9,992 2,772 2.889 1,438 4,953 3,467 359 May .... 2,599 3,392 2,627 2,540 1,299 10,108 4,488 334 June .... 3,733 2,629 3,480 225 2,433 2,059 1,120 10,045 July .... 3,533 2,192 1,719 983 9,679 4,269 2,680 298 Aug. .... 2,113 1,393 3,349 1,944 337 3,226 8,129 2,451 Sept, ... 3,330 2,080 1,397 7,167 3,475 2,440 3,034 424 Oct . .... 2,953 372 3,216 1,962 1,417 5,260 3,846 2,093 Nov. .... 1,314 4,200 2,282 3,064 397 3,314 1,980 Dec. .... 5,264 1,339 3,648 3,458 2,081 1948 - Jan. .... 5,739 3,921 2,246 371 3,474 1,216 3,388 388 1,886 5,704 4,062 2,162 Feb, ....

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). - N. JUPPLY. Statement of Manufacturers producing Synthetic and Reclaim Rubber.

	(weigh	it in Long To	ns)		
Type of Aubber		ntory y 1, 1948	Production	n	entory ry 29, 1948
Natural Rubber -					til velige vije jandelikerije, mje vijeje velje velje velje velje velje velje velje ve
Crude kubber		-	Stotl		63
Natural Latex	Profitables approximation	90			73
Total Natural Rubber .		90	-		73
Synthetic Rubber -					
Buna J		71	2,975		889
Butyl	1,1		406	1,	075
Neoprene		39	16.		50
All other		and .	7		14
Total Synthetic Rubber	2,1	68	3,388	2,	028
Total Natural and					
Synthetic Rubber	2,2	78	3,388	2.	101
Reclaim Rubber -					
Dispersions		30	23		23
Other than dispersions .	1	46	365		124
Potal Reclaim Rubber .	1	76	388		147
GRAND FOTAL	2,4	54	3,776	2,	248
Table 2(b) CONSUMPTION.	Statement o	f Manufacture in Long Ton	ers Consumin	ng Rubber.	
	Inventory	Receipts		Sales	Inventory
Type of Rubber	Feb. 1,	(imports,	Con-	(exports	Feb. 29,
	1948	etc.)	sumption	etc.	1948.
Natural Rubber -					
Grude Rubber	5,455	3,394	3,400	19	5,430
Natural Latex	194	81	74	may "	201
Total Natural Rubber .	5,649	3,475	3,474	19	5,631
Synthetic Rubber -					
Buna S	1,429	1,648	1,482	14	1,581
Butyl	231	431	328	17	317
Neoprene	41	132	66	1	106
All other	32	12	10	4	30
Total Synthetic Rubber	1,733	2,223	1,886	36	2,034
Total Natural and Synthetic Rubber	7,382	5 600	E 700	5.5	G cce
		5,698	5 360	55	7,665
Reclaim Rubber -	0.0	50	F-0		
Dispersions	86	32	52	**	66
Other than dispersions . Total Reclaim Rubber	1,984	1,129	1.164	[8]	1 949
	2,070	1,161	1,216	-	2,015
CRAND TOTAL	9,482	6,859	6,576	55	9,580

### Section B. Natural Rubber

The January and February, 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, February, 1946 to February, 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, February, 1946 - February, 1948, Showing also percentage of Natural to All Synthetic and Natural Consumed.

200	Natu	ral Rubber		Used in the	e manufacture	of -		
Month	Total	Percentage of all rubber	Tires and tubes	Repair Materials	Mechanical Goods	Wire and cable	Footwear	Other Products
	000°s	Per cent	000°s pounds	000's pounds	000's pounds	000's pounds	000's pounds	000°s pounds
1946 - 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		17.85	1,214	26	145	14	405	50
May	*	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		30,01	154	3	50	11	225	71
September		31.64	252	13	70	13	248	62
October	970	29.18	488	15	95	13	283	76
November		37.89	3,373	37	230	25	411	88 0
December		40.06	3,311	65	225	25	413	106
1947 - January	4,824	40.26	3,925	56	256	20	436	130
February		44.06	3,990	50	290	24	507	119
March		45.89	4,275	42	323	22	624	178
April	5,546	45.69	4,375	42	302	25	618	190
May		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	,	60.42	5,240	47	581	53	991	316
October	7,459	61.44	5,348	56	701	83	939	332
November		62.10	5,303	56	593	59	884	310
December	7,422	62.59	5,545	57	623	92	813	292
1948 - January	7,744	62.41	5,636	(1)	(2)	88	898	1,122
February		64.82	5,743	(1)	(2)	71	958	1,010

<sup>(1)</sup> Included with "tires and tubes" (2) Included with "other products".

Table 5(a), 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
		Founds	Pounds	Pounds
1.	Tires and tabes, including tire repair materials	5,716,235	26,783	5,743,018
2.	Wire and cable	70,883	bar	70,883
3.	Footwear (including heels, soles, etc.)	955,781	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 And Product Classification,
January, 1948.

End	Products	Crude Rubber (excluding lutex)	Latex	Total Crude and Latex
		Pounds	Pounds	Pounds
1.	Tires and tubes, including tire repair materials	5,611,474	24,714	5,636,188
2.	Wire and cable	88,071	-	88,071
3.	Footwear (including heels, soles, etc.)	896,056	1,718	897,774
4.	Other products	988,139	134,000	1,122,139
	TOTAL	7,583,740	160,432	7,744,172

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

Summary data, by months, February 1946 to February 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, February, 1946 to February, 1948.

	Month	Buna S	Butyl	Neoprene	Other	Total
		Pounds	Pounds	Pounds	Pounds	Pounds
1946 -	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
	August	3,059,955	665,754	116,599	10,323	3,852,633
	September	3,661,306	882,330	177,278	13,099	4,734,013
	October	3,607,668	858,690	174,591	18,630	4,659,579
	November	3,394,278	815,672	169,987	16,585	4,396,528
	December	3,380,775	925,781	122,208	7,035	4,435,799
1948 -	January	3,593,044	923,787	130,949	16,929	4,664,709
	February	3,320,024	733, 907	146,740	22,880	4,223,551

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

	Synt!	hetic Rubber		Us	ed in the Man	ifacture of	-9		
Month	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 pounds	000's pounds	000's pounds	000°s pounds	
1946 - 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	
Мау	8,289	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	10
December		59.94	4,566	108	637	162	298	430	
1947 - January	7,158	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	4	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	618	164	210	324	
	4,611	45.84	3,532	37	446	114	307	175	
August		43.97	2,876	33	311	155	314	163	
September		39,58	3,370	37	517	208	378	224	
October		38.45	3,385	27	436	190	365	257	
November	P.	37.90	3,158	45	368	253	323	250	
December		37.41	3,381	61	334	157	314	189	
1948 - January	4,665	37.59	3,495	(1)	(2)	203	365	602	
February	4,223	35.18	3,076	(1)	(2)	183	364	600	

<sup>(1)</sup> 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	-	3,076,140
2.	Wire and cable	134,305	150	48,697	-	183,152
3,	Footwear (including heels, soles, etc.)	362,397		1,517	-	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, January, 1948.

End	Products	Buna S	Butyl	Neoprene	Other	Total Synthetic
		Pounds	Pounds	Pounds	Pounds	Pounds
1.	Tires and tubes, including tire repair materials	2,589,748	904,858	449	-	3,495,055
2.	Wire and cable	160,224	985	42,431	-	202,455
3.	Footwear (including heels, soles, etc.)	362,007	-	2,631	120	364,758
4.	Other products	481,065	18,929	85,638	16,809	602,441
	TOTAL	3,593,044	923,787	130,949	16,929	4,664,709

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 - 1937 with monthly averages for each year and broken down into Dispersions and Other than Dispersions, by actual months, July, 1945 to February, 1948.

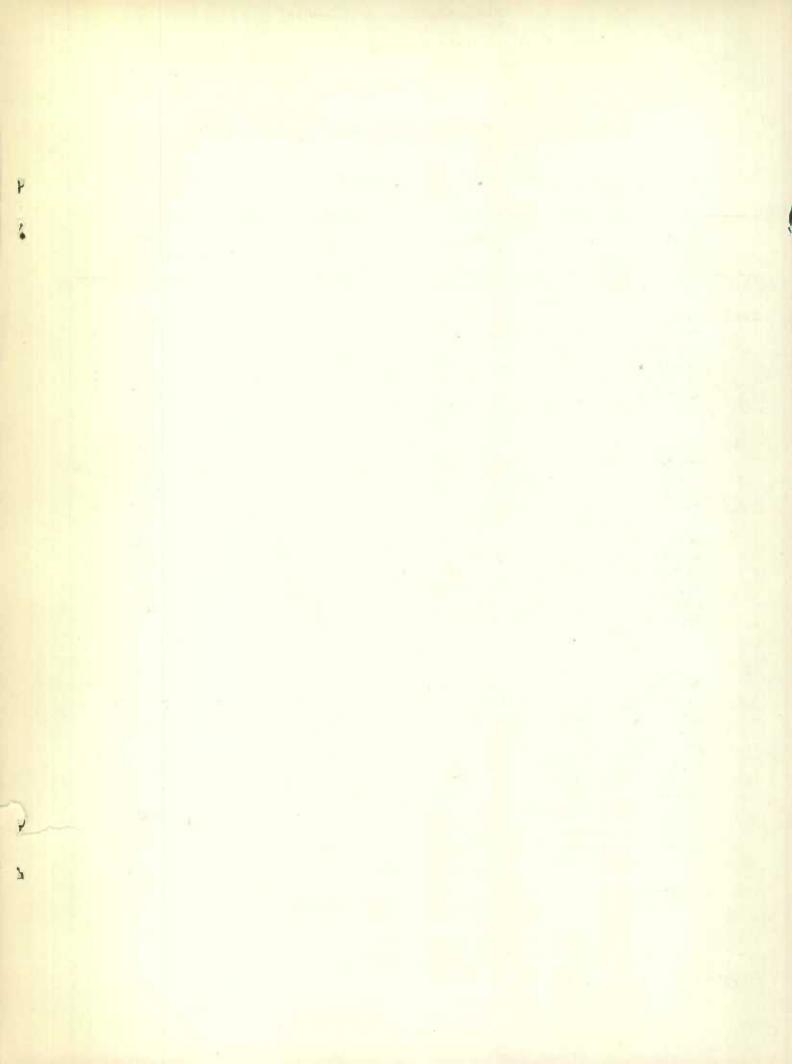
For summary data on Reclaim, Synthetic, and other rubber stocks, domestic production, domestic consumption, expressed in long tons, see Table 1.

Table 10. - Consumption of Reclaim Rubber in Total, and by Monthly Averages, 1939 - 1947.

Year	Total 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
1914	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 February, 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
Cctober	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	3,510,217	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	145,361	2,984,191
November	3,174,704	140,170	3,034,534
December	2,943,863	135,594	2,818,269
1948 - January	3,000,043	113,948	2,886,095
February	2,723,907	115,805	2,608,102



STATISTICS CANADA LIBRARY S 8. OTHÔDE STATISTICUE CANADA 1010743021