Published by Authority of the Rt. Hon. C. D. Howe 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,

DECEMBER, 1947



the same

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 DECEMBER, 1947

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 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 - 1947, and actual months, July, 1945 to December, 1947. Table 2 gives details for November and December, 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 - 1947, and Actual Monthly Totals, July, 1945 to December, 1947.

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

Period	Stocks, End of Period			Domestic Production		Domestic Consumption		
A STATE OF THE STA	Natural	Syn- thetic	Re- claim	Syn- thetic	Re- claim	Natural	Syn- thetic	Re- claim
Monthly Averages								
.939	n.a.	n.a.	n.a.	-	-	2,635	-	626
940	n.a.	n.a.	n.a.	-	4	3,083		703
941	n.a.	n.a.	n.a.	-	-	4,436	-	789
1942	n.a.	n.a.	4,560	- 121	_	5,512	-	1,042
943	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
	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, July, 1945 to December, 1947. - 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 claim thetic Monthly Totals 1945 - July 4,007 5,284 2,700 4,007 201 415 2,728 1,003 4,798 4,989 2,809 3,399 309 349 2,319 1,117 Aug. 4,517 Sept. 3,938 2,617 2,783 265 383 2,948 1,357 4,637 4,146 2,456 3,541 327 395 3,206 Oct. 1,483 4,106 2,102 4,165 Nov. 3,984 353 473 3,613 1,559 3,082 Dec. 3,703 4,124 2,219 3,575 249 461 1,373 4,995 2,150 4,255 1946 - Jan. 3,025 290 674 3,446 1,525 2,228 2,466 4,183 3,818 326 Feb. 707 3,356 1,400 2,358 Mar. 3,000 3,871 3,816 343 835 3,741 1,537 3,773 2,575 4,317 817 2,845 288 3,808 Apr. 1,503 2,278 2,572 3,707 May 3,332 341 3,699 938 1,418 June 1,775 3,978 2,409 4,542 300 702 2,946 1,363 2,021 7,058 2,672 4,282 264 July 172 588 519 2,929 9,045 3,054 4,570 352 229 530 594 Aug. 4,307 8,742 3,235 3,728 349 294 635 656 Sept. 5,752 7,734 3,530 4,526 344 846 433 1,051 Oct. 4,634 1,485 Nov. 7,661 5,829 3,194 414 1.854 3,048 4,565 Dec. 5,885 3,455 4,786 356 1,850 2,768 1,292 4,316 1947 - Jan. 3,729 3,195 4,408 329 2,153 3,195 1,533 2,876 4,551 3,114 330 Feb. 4,024 2,224 2,823 1,463 2,440 Mar. 4,473 5,344 2,872 4,466 360 2,876 1,570 Apr. 7,187 5,473 2,931 4,628 360 2,476 2,942 1,395 9,992 4,953 2,772 3,467 359 2,643 2,889 May 1,438 2,599 4,488 June 10,108 3,392 334 2,627 2,540 1,299 3,733 1,120 July 10.045 2,629 3,480 225 2,433 2,059 9,679 4,269 2,680 3,533 298 2,192 1,719 983 Aug. 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. 3,216 5,260 2,093 2,953 372 3,846 1,962 1,417 Nov. 3,314 5,264 4,200 2,282 3,064 397 1,980 1,314 Dec.

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 Lon	g Tons)
----------------	--------	---

	(Weight in	Long Tons)			
Type of Rubber	Inventor December 1,	· D	roduction		entory 31, 1947
Natural Rubber -					
Crude Rubber	~		-		_
Natural Latex	90				77
Total Natural Rubber	90				77
Synthetic Rubber -					
Buna S	861		2,610		831
Butyl	1,573		454	1,	591
Neoprene	17		-		20
All other			-		
Total Synthetic Rubber	2,451		3,064	2,	442
Total Natural and					
Synthetic Rubber	2,541		3,064	2,	,519
Reclaim Rubber -					
Dispersions	37		21		25
Other than dispersions	177		376		140
Total Reclaim Rubber	214		397		165
GRAND TOTAL	2,755		3,461	2,	684
Table 2(b) CONSUMPTION. Sta	tement of Man	ufacturers	Consuming	Rubber.	
	(Weight in L				
	Inventory		Con-	Sales	Inventory
Type of Rubber	Dec. 1,	(imports,	sumption	(exports,	Dec. 31,
PER AL	1947	etc.)	Sumperon	etc.)	1947
Natural Rubber -					
Crude Rubber	5,008	3,250	3,247	11	5,000
Natural Latex	162	92	67	-	187
Total Natural Rubber	5,170	3,342	3,314	11	5,187
Synthetic Rubber -					
Buna S	1,111	1,827	1,509	29	1,400
Butyl	194	516	413	9	288
Neoprene	63	37	55	-	45
All other	27	4	3	3	25

1,395

6,565

1,807

1,879

8,444

72

2,384

5,726

1,499

1,552

7,278

53

1,980

5,294

1,258

1,314

6,608

56

41

52

52

1,758

6,945

2,048

2,117

9,062

69

Total Synthetic Rubber ...

Other than dispersions

GRAND TOTAL

Total Reclaim Rubber

Synthetic Rubber

Total Natural and

Dispersions

Reclaim Rubber -

Section B. Natural Rubber

The November and December 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 December, 1947 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 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, 1939-1947.

Year	Total Pounds	Monthly Averages Pounds
1939	70,828,300	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, January, 1946 - December, 1947 Showing also percentage of Natural to All Synthetic and Natural Consumed.

	Natural Rubber			Used in the manufacture of -					
Monta	Total	Percentage of all rubber	Tires and tubes	Repair Materials	Mechanical Goods	Wire and cable	Footwear	Miscel laneou	
	000 s	Per cent	000's pounds	000's	000's pounds	000°s	000°s	000's	
46 - 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 .uoouooo	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	
47 - 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	
August	4,909	56.03	3,285	38	366	36	962	222	
September	7,228	60.42	5,240	47	581	53	991	316	
October	7,459	61.55	5,348	56	701	83	939	332	
November	7,205	62.10	5,303	56	593	59	884	310	
December	7,422	62.59	5.545	57	623	92	813	292	

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

End	Products	Crude Rubber (excluding latex)	Latex	Total Crude and Latex
		Pounds	Pounds	Pounds
	Tires and tubes Tire repair materials (including	5,523,336	21,979	5,545,315
	cements and camelback)	57,284	100	57,384
	Mechanical goods	622,978	91	623,069
	Wire and cable	91,668	-	91,668
	soles, etc.)	811,471	1,383	812,854
4	Miscellaneous	166,298	126,045	292,343
	TOTAL	7,273,035	149,598	7,422,633

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

End	Products	Crude Rubber (excluding latex)	Latex	Total Crude and Latex
		Pounds	Pounds	Pounds
	Tires and tubes	5,288,195	14,488	5,302,683
	cements and camelback)	56,260	50	56,310
5.	Mechanical goods	592,146	915	593,061
1.	Wire and cable	59,132	-	59,132
	soles, etc.)	881,561	2,088	883,649
	Miscellaneous	180,991	129,174	310,165
	TOTAL	7,058,285	146,715	7,205,000

Section C. Synthetic Rubber

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

Summary data, by months, January, 1946 to December, 1947, 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, January, 1946 to December, 1947

M	onth	Buna S	Butyl	Neoprene	Other	Total
	description of the description of the second	Pounds	Pounds	Pounds	Pounds	Pounds
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	6,607,46
	July	1,064,494	79,115	165,760	8,567	1,317,93
	August	973,714	62,611	143,360	6,022	1,185,70
	September	1,138,981	108,720	170,240	4,355	1,422,29
- 24	October	1,921,885	246,885	176,960	9,066	2,354,79
	November	5,548,222	1,029,746	237,440	10,268	6,825,67
	December	5,000,720	953,020	237,680	10,639	6,202,05
1947 -	January	5,710,124	1,199,032	230,720	18,173	7,158,04
	February	5,034,216	1,095,348	176,960	18,814	6,325,33
	March	5,122,804	1,001,714	241,890	76,249	6,442,65
	April	5,201,926	1,162,252	217,750	9,477	6,591,40
	May	5,135,107	1,092,810	225,866	16,464	6,470,24
	June	4,447,404	960,038	219,914	63,014	5,690,37
	July	3,689,525	759,452	146,944	15,129	4,611,05
	August	3,059,955	665,754	116,599	10,323	3,852,63
	September	3,661,306	882,330	177,278	13,099	4,734,01
	October	3,607,668	858,690	174,591	18,630	4,659,57
	November	3,394,278	815,672	169,987	16,585	4,396,52
	December	3,380,775	925,781	122,208	7,035	4,435,79

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

	Synthe	tic Rubber		Use	d in the manu	facture of	- 1	
Month	Total	Percentage of all rubber	Tires and tubes	Repair Materials	Mechanical Goods	Wire and cable	Footwear	Miscel- laneous
	000°s	Per cent	000's	000's	000's	000's	000¹s	000's
	pounds	201 001117	pounds	pounds	pounds	pounds	pounds	pounds
946 - January	7,722	85.32	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
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	37	446	114	307	175
August	3,853	43.97	2,876	33	311	155	314	163
September	4,734	39.58	3,370	37	517	208	378	224
October	4,660	38.45	3,385	27	436	190	365	257
November	4,397	37.90	3,158	45	368	253	323	250
December	4,436	37.41	3,381	61	334	157	314	189

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

End Pr	oduets	Buna S	Butyl	Neoprene	Other	Total Synthetic
1000 marada - 10 - 10 m	ga galandi — Pitti kadi kadigatiga igangangan pantan di melimbangan Andan di melimban kandi melimban kandi melamban kandi	Pounds	Pounds	Pounds	Pounds	Pounds
	res and tubes	2,464,575	916,693			3,381,268
	camelback)	60,652	645	***		61,297
3. Me	chanical goods	269,557	2,771	60,718	1,239	334,285
l. Wi	re and cable	118,901	-	37,732		156,633
	heels, soles, etc.)	310,169	-	2,374	1,034	313,577
6. Mi	scellaneous	156,921	5,672	21,384	4,762	188,739
	TOTAL	3,380,775	925,781	122,208	7,035	4,435,799

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

and Pr	roducts	Buna S	Butyl	Neoprene	Other	Total Synthetic
Minimir d.A.	dered to dependent and reduction to the second section to the second section to the section to t	Pounds	Pounds	Pounds	Pounds	Pounds
	res and tubes	2,363,314	794,893		3.3	3,158,207
	camelback)	43,991	816			44,807
3. Me	chanical goods	298,794	2,921	58,512	7,867	368,094
. Wi	re and cable	189,325	-	63,286	-	252,611
	heels, soles, etc.)	315,714	***	3,430	3,425	322,569
3. Mi	scellaneous	183,140	17,042	44,759	5,293	250,234
	TOTAL	3,394,278	815,672	169,987	16,585	4,396,522

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 of 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 December, 1947.

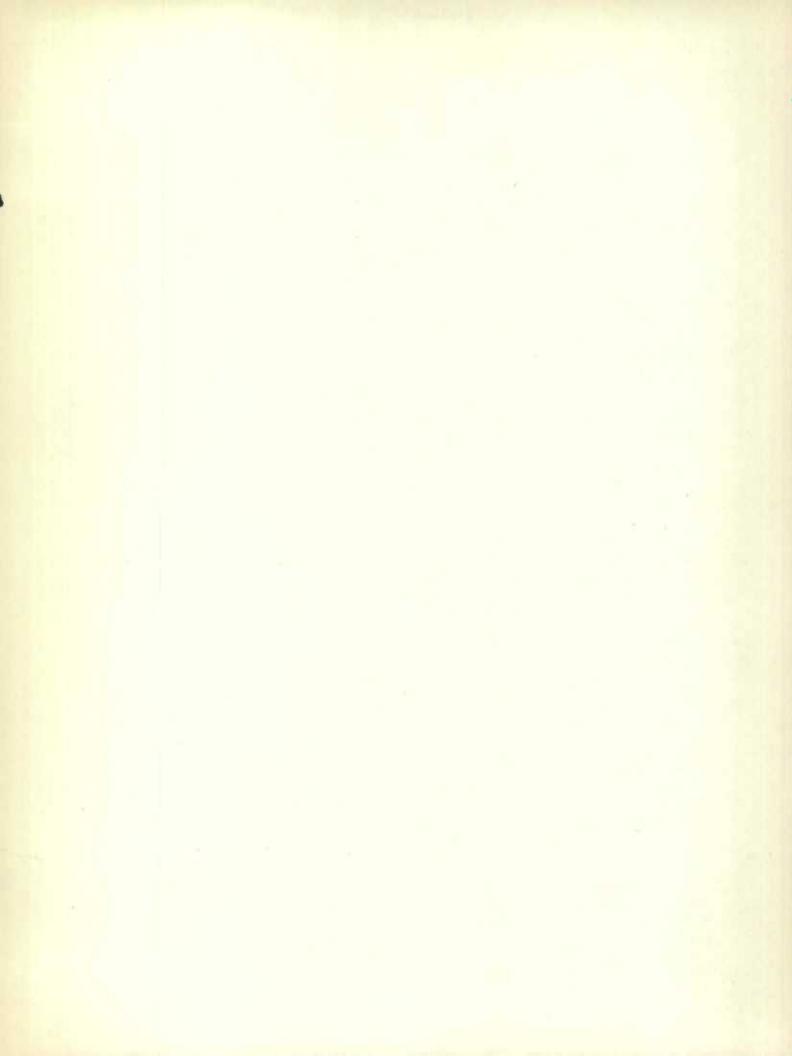
For summary data on Reclaim, Synthetics, and other rubber stocks, domestic production, domestic consumption, expressed in long tons, see Table 1.

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

	Month	Total	Dispersions	Other than Dispersions
	ramin dy gyng, dy niemiero zazazoniem diem niemie delle deministrati	Pounds	Pounds	Pounds
1945 - July	- July	2,246,720	125,440	2,121,280
		2,502,080	112,000	2,390,080
		3,039,680	132,160	2,907,520
		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
		- 144.96		
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	1,895,640	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
	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



STATISTICS CANADA LIBRARY
LA COMEQUE STATISTIQUE CANADA
1010743017