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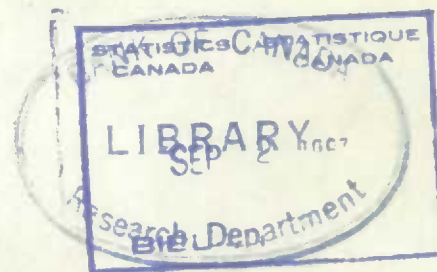
## RUBBER INDUSTRIES

1961

The list of firms normally included in this report has been omitted from this issue, along with certain tables. See introductory text for details.

### ANNUAL CENSUS OF MANUFACTURES

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## SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.



## EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1961 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. Implementation of the new definition of the establishment in the 1961 Census has resulted in certain changes and necessitated some adjustments to the statistics for previous years in order to maintain comparability of the data. (See following note on "Establishment".)

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1961, are as follows:

### Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

### Establishment

The reporting unit in the Census of Manufactures is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

- Materials and supplies used,
- Goods purchased for resale as such,
- Fuel and power consumed,
- Number of employees and their pay,
- Inventories,
- Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing operations. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were principally engaged in manufacturing operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

Many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described earlier.

Prior to 1961, the main emphasis in the Census of Manufactures was on manufacturing activity whereas, beginning with 1961, each establishment reports on the total operations carried out within its accounting boundaries (except income from investments such as rent, interest and dividends). However, data on different activities (manufacturing, selling, construction by own labour force etc.) are requested separately. The 1961 statistics in this report are confined to manufacturing activity in order to maintain comparability with previous years. In the 1962 reports it is planned to show both 1961 and 1962 data on the "total activity" basis in addition to the data on manufacturing operations.

### Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level, and clerical employees. Working owners and partners are also included in this category but will be shown separately in subsequent years.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, handling, warehousing and delivery staff. Employees on new construction work, in retail or wholesale operations, on outside piece work, etc, are not included.



Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to the calendar year whether or not some establishments reported other data on a financial year basis.

### **Salaries and Wages**

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included with salaries, but will be shown separately in subsequent years. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

### **Cost of Fuel and Electricity**

Figures for fuel refer to amounts actually used (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the establishment including freight, duty, etc.

### **Materials and Supplies Used**

Figures represent quantities and laid-down cost values, at the establishment, of materials, supplies and components actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants or reporting companies for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

### **Factory Shipments**

Factory shipments generally refer to shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishment for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm which are treated as separate establishments are included. Goods bought or received as transfers and resold without further processing are not included. Values are requested

on f.o.b. establishment basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

### **Inventories**

Values represent the book value of manufacturing inventory. Figures consist of inventory at the plant and at warehouses or selling outlets which are treated as extensions of the plants for the purpose of reporting shipments.

### **Value added by Manufacturing**

Value added is compiled by deducting the cost of materials, fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process). Value added is sometimes referred to as net production.<sup>1</sup>

### **Standard Industrial Classification**

The revised Standard Industrial Classification which was introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Establishments engaged solely in repair work are not included in manufacturing industries (except in the case of furniture, shipbuilding, boat building, aircraft and railroad rolling stock industries) but establishments principally engaged in assembling parts into complete units are included.

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<sup>1</sup> To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of advertising, insurance and other business costs which are not collected in the annual Census of Manufactures. Value added figures for the primary industries, manufacturing and construction are published in D.B.S. publication 61-202, Survey of Production.

## Short Forms

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking only for certain principal items of shipments. For purposes of publication, missing data were estimated on the basis of appropriate ratios. For the 1959 and 1960 censuses the general limit for short forms was raised from \$50,000 to \$100,000 value of shipments and a new intermediate form was used. This form is a shortened version of the long form in that some of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and inter-

mediate forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

In the 1961 Census, in addition to the question on shipments of goods of own manufacture, questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity, and inventories, are generally estimated by using ratios based on the change in the value of shipments from year to year. This is to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportion of the estimated data is generally less than 5 per cent of the total in each category of principal statistics.





# RUBBER INDUSTRIES

1961

For the 1961 survey year, the Bureau implemented a New Establishment Concept, bringing about marked revisions to this industrial group. This implementation of a new definition of the establishment (reporting unit) in the 1961 Census of Manufactures has resulted in certain changes and necessitated some adjustments to the statistics. In order to maintain comparability of the principal statistics (Table 1) for recent years, the necessary adjustments were applied to the data back to 1957. (See also Explanatory Notes).

As pointed out in the 1960 report in this series, this industrial group comprises three separate industries defined as follows:

**Rubber Footwear Manufacturers.**—Establishments primarily engaged in manufacturing all-rubber footwear and footwear having fabric uppers and rubber soles.

**Tire and Tube Manufacturers.**—Establishments primarily engaged in manufacturing rubber tires and tubes for automobiles, trucks, aircraft, tractors and other machinery and implements.

**Other Rubber Industries.**—Establishments primarily engaged in manufacturing rubber goods, such as rubberized fabrics, mechanical rubber goods, rubber flooring and rubber sundries.

However, many establishments in this industrial group are not exclusively engaged in manufacturing articles confined to any one of the three industries. For this reason, most of the data covering materials used, products shipped, etc., are presented, as in the 1960 report, on the industrial

group basis only and these group data have been broken down on the individual industry basis where such a presentation would supply additional information. Thus, only the industrial group data presented in Tables 1, 2 and 9 have been shown in two ways: (a) by individual industry, based on the revised Standard Industrial Classification and the New Establishment Concept; and, (b) by province.

Because of the changes brought about to this industrial group by the implementation of the new establishment concept, only 1961 data are presented throughout this report, with the exception of Table 1. However, during the carrying out of this 1961 survey, certain important amending information covering the 1960 shipments of footwear were received. These revised shipments are given immediately below, and, in this particular instance, may be regarded as being generally comparable to the 1961 data given in Table 4 of this report.

Since it is not possible, for technical reasons, to apply the adjustments for sales taxes, etc., to the 1961 shipment data shown in Tables 4 to 7 inclusive, a new table has been added to this report, namely Table 3. The purpose of this table is to reconcile the individual shipment totals of Tables 4 to 7, inclusive, with the 1961 shipment total for the industrial group as shown in Table 1 and in Tables 11 to 13, inclusive, of this report.

As a result of increased work loads and staff shortages it has been necessary to suspend publication of certain tables normally contained in this report. It is planned to resume publication of these tables in the 1962 reports. The tables affected are the following: List of firms—Imports—Exports—Capital and Repair Expenditures.

Shipments of Footwear, 1960, (Revised)

Kind	Quantity	Value
	pairs	\$
Boots, all rubber:		
(a) Knee, thigh and hip .....	903,817	2,781,776
(b) Lumbermen's, etc. ....	258,928	1,239,683
Boots, rubber bottoms and leather tops:		
Lumbermen's, etc. ....	157,664	1,070,391
Bottoms for leather tops .....	163,195	394,048
Overshoes and goloshes:		
(a) Cloth uppers .....	791,126	3,136,505
(b) All rubber, lined and unlined .....	2,871,100	8,212,328
Light and heavy rubbers .....	2,526,480	3,275,912
Footwear, with canvas or other fabric tops .....	2,434,845	4,450,106
Bathing shoes .....	1	1
Plastic waterproof footwear, all types .....	2,740,753	3,196,407
Leather footwear .....	1	1
Other footwear .....	1,519,742	2,707,453
<b>Total footwear .....</b>	<b>14,367,650</b>	<b>30,464,609</b>

<sup>1</sup> Included in "Other footwear".

TABLE 1. Principal Statistics, 1929-61

Year	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity	Cost of materials used	Value added by manufacture	Value of shipments <sup>1</sup>
Basis: Standard Industrial Classification in use prior to 1960.							
	number		dollars				
1929 .....	44	17,796	20,134,501	1,456,575	42,940,747	52,537,338	96,934,660
1932 .....	47	10,325	9,340,911	1,083,735	11,906,696	27,756,479	40,746,910
1934 .....	51	11,079	10,858,637	1,192,427	18,439,498	35,598,456	55,230,381
1935 .....	45	11,023	11,017,431	1,189,014	20,258,774	34,501,782	55,949,570
1937 .....	50	13,035	14,041,066	1,339,517	31,126,755	41,797,481	74,263,753
1939 .....	54	14,160	15,603,774	1,331,900	28,814,003	39,799,568	69,945,471
1941 .....	56	17,191	22,792,376	1,708,717	59,340,321	58,088,738	119,137,776
1943 .....	51	15,913	25,342,508	1,908,247	68,297,492	59,952,041	130,157,780
1945 .....	55	23,490	39,111,477	4,076,109	78,500,892	98,836,225	181,413,226
1946 .....	60	22,055	37,813,363	3,821,287	62,135,578	93,451,248	159,408,113
1947 .....	60	23,475	46,613,893	2,700,102	82,934,625	110,673,007	196,307,734
1948 .....	56	21,703	48,273,015	2,888,534	84,223,731	106,999,669	194,111,934
1949 .....	62	20,729	48,172,207	2,902,328	73,895,718	101,705,513	178,503,559
1950 .....	61	21,812	54,262,864	3,349,367	101,773,382	134,061,761	239,184,510
1951 .....	67	23,054	64,357,696	3,541,859	146,951,650	161,184,980	311,678,489
1952 .....	70	21,582	65,477,683	3,522,274	120,799,295	162,333,060	286,654,629
1953 .....	72	22,600	70,994,643	3,724,710	114,336,694	172,674,055	290,735,459
1954 .....	73	20,894	67,476,405	3,999,798	106,501,858	149,073,979	264,184,787
1955 .....	82	21,913	73,774,964	4,173,111	137,074,770	187,029,017	322,412,379
1956 .....	91	23,136	82,154,889	4,884,170	160,686,586	198,602,139	355,583,815
1957 .....	88	22,178	83,189,580	4,961,524	144,246,768	176,456,204	326,091,308
1958 .....	89	19,943	76,445,003	5,029,413	128,572,616	174,828,149	308,383,196
1959 .....	89	21,093	86,859,037	5,420,412	160,396,526	188,179,495	347,680,280
Basis: Revised Standard Industrial Classification and New Establishment Concept <sup>2</sup>							
	number		dollars				
1957 .....	86	22,185	83,215,286	5,005,731	145,566,921	..	334,777,988
1958 .....	87	19,948	76,497,083	5,034,114	129,641,219	177,811,184	314,792,148
1959 .....	86	21,082	86,884,173	5,425,093	161,815,916	195,196,913	354,045,241
1960							
Canada .....	89	20,298	84,531,136	5,223,477	153,839,548	173,810,837	328,459,312
Footwear manufacturers .....	6	4,276	12,843,178	432,637	13,403,560	17,882,862	31,361,187
Tire and tube manufacturers .....	9	8,094	38,632,451	2,620,783	91,091,348	91,257,412	181,919,924
Other rubber industries .....	74	7,928	33,055,507	2,170,057	49,344,640	64,670,563	115,178,201
Quebec .....	32	5,980	20,979,387	1,180,234	29,952,956	33,644,003	64,069,405
Ontario .....	45	14,171	62,930,977	3,992,414	122,981,608	138,204,339	261,827,383
Other provinces <sup>3</sup> .....	12	147	620,772	50,829	904,984	1,962,495	2,562,524
1961							
Canada .....	93	18,860	82,003,785	5,276,047	148,683,954	171,593,527	331,134,713
Footwear manufacturers .....	6	4,023	12,669,668	398,636	12,445,572	19,462,576	32,578,663
Tire and tube manufacturers .....	10	7,502	38,013,950	2,674,507	87,174,440	84,855,754	180,248,120
Other rubber industries .....	77	7,335	31,320,167	2,202,904	49,063,942	67,275,197	118,307,930
Quebec .....	33	5,703	21,137,048	1,222,460	31,984,440	36,492,736	69,726,799
Ontario .....	48	12,768	59,305,860	3,928,656	112,911,142	129,666,869	252,479,238
Other provinces <sup>4</sup> .....	12	389	1,560,877	124,931	3,788,372	5,433,922	8,928,676

<sup>1</sup> Figures up to and including 1953 represent the value of production<sup>2</sup> The implementation of a new definition of the establishment (reporting unit) in the 1961 Census of Manufactures has resulted in certain changes and necessitated some adjustments to the statistics. In order to maintain comparability of the principal statistics for recent years, the necessary adjustments were applied to the data back to 1957. (See also Explanatory Notes).<sup>3</sup> Includes two establishments in Manitoba, three in Alberta, and seven in British Columbia.<sup>4</sup> Includes two establishments in Manitoba, four in Alberta, and six in British Columbia.



TABLE 2. Inventories<sup>1</sup>, 1961.

Industry and Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening inventory <sup>2</sup>				
Canada .....	17,086,312	7,841,536	65,019,783	89,947,641
Footwear manufacturers .....	2,234,804	456,196	7,713,608	10,404,608
Tire and tube manufacturers .....	8,210,905	4,094,960	46,011,604	58,317,469
Other rubber industries .....	6,640,603	3,290,380	11,294,581	21,225,564
Quebec .....	4,106,718	1,215,908	9,181,541	14,504,167
Ontario .....	12,843,113	6,546,073	55,474,882	74,864,068
Other provinces .....	136,481	79,555	363,370	579,406
Closing inventory				
Canada .....	18,292,740	8,658,015	58,622,129	85,572,884
Footwear manufacturers .....	2,088,098	501,110	7,396,815	9,986,023
Tire and tube manufacturers .....	9,192,871	4,281,194	40,281,951	53,756,016
Other rubber industries .....	7,011,771	3,875,711	10,943,363	21,830,845
Quebec .....	4,151,370	1,552,310	8,817,976	14,521,656
Ontario .....	14,010,399	7,025,015	49,023,369	70,058,783
Other provinces .....	130,971	80,690	780,784	992,445

<sup>1</sup> Book value of all manufacturing inventories held at plant and plant warehouses.

<sup>2</sup> The opening inventory for 1961 differs from the closing inventory for 1960 because of the receipt of revised data, the inclusion of new establishments, the removal of figures for establishments which did not operate in 1961, changes in classification, and the implementation of the New Establishment Concept.

TABLE 3. Shipments by Type of Products, 1961.

Type of Products	Value
	\$
Footwear .....	32,255,067
Tires .....	149,605,191
Tubes .....	8,346,771
Other Products .....	141,600,330
Total shipments .....	331,807,359
Less adjustment for value of sales taxes, excise duties and outward transportation charges which were not deducted from individual commodity items detailed above .....	672,646
Total shipments (adjusted) .....	331,134,713

TABLE 4. Shipments of Footwear, 1961

Kind	Quantity	Value
	pairs	\$
Boots, all rubber:		
(a) Knee, thigh and hip .....	885, 732	2, 905, 634
(b) Lumbermen's etc. ....	243, 640	1, 078, 680
Boots, rubber bottoms and leather tops:		
Lumbermen's, etc. ....	129, 228	768, 343
Bottoms for leather tops .....	177, 107	441, 296
Overshoes and goloshes:		
(a) Cloth uppers .....	808, 157	3, 543, 362
(b) All rubber, lined and unlined .....	2, 788, 106	7, 959, 665
Light and heavy rubbers .....	2, 587, 426	3, 345, 467
Footwear, with canvas or other fabric tops:		
(a) Utility .....	2, 078, 411	3, 763, 093
(b) Casual .....	803, 217	1, 567, 257
Bathing shoes .....	1	1
Plastic waterproof footwear, all types .....	2, 590, 263	3, 162, 134
Leather footwear .....	1	1
Other footwear .....	1, 798, 703	3, 720, 136
<b>Total footwear .....</b>	<b>14, 889, 990</b>	<b>32, 255, 067<sup>2</sup></b>

<sup>1</sup> Included in "Other footwear".<sup>2</sup> See Table 3.

TABLE 5. Shipments of Tires, by Types, 1961

Type	First line	Second line	Third line	Total	Value
	number				\$
Pneumatic tires (including tubeless):					
Passenger car all ply ratings .....	5, 174, 544	1, 373, 025	1, 312, 647	7, 860, 216	88, 073, 339
Truck and bus (including earth-mover, excavator, logger and grader):					
(a) Sizes smaller than 12.00-22 .....	798, 814	93, 406	—	892, 220	45, 087, 685
(b) Sizes 12.00-22 and larger .....	20, 474	—	—	20, 474	6, 435, 893
Aeroplane .....	1	—	—	1	1
Tractor and implement .....	1	1	—	1	1
Industrial, pneumatic and semi-pneumatic (including wheelbarrow) .....	58, 167	—	—	58, 167	379, 426
Motorcycle and sidecar .....	1	—	—	1	1
Bicycle .....	1	1	—	1	1
Pneumatic tires, n.e.s. ....	551, 663	260, 496	—	812, 159	9, 321, 432
Solid and cushion tires:					
All types: (including lawn mower, wheelbarrow, pressed-on and moulded-on) .....	41, 788	—	—	41, 788	307, 416
<b>Total tires .....</b>	<b>6, 645, 450</b>	<b>1, 726, 927</b>	<b>1, 312, 647</b>	<b>9, 685, 024</b>	<b>149, 605, 191<sup>2</sup></b>

<sup>1</sup> Included with "Pneumatic tires n.e.s." as figures are confidential.<sup>2</sup> See Table 3.

TABLE 6. Shipments of Tubes, by Types, 1961

Type	First line	Second line	Third line	Total	Value
	number				\$
Passenger car .....	1,635,139	991,452	—	2,626,591	4,348,408
Truck and bus:					
(a) Sizes smaller than 12.00-22 .....	655,575	—	—	655,575	2,831,528
(b) Sizes 12.00-22 and larger .....	17,788	—	—	17,788	226,131
Aeroplane .....	1	—	—	1	1
Tractor and implement .....	198,851	—	—	198,851	626,526
Motorcycle and sidecar .....	2,725	—	—	2,725	4,841
Bicycle .....	1	1	—	1	1
Tire tubes, n.e.s. ....	218,759	93,423	—	312,182	309,337
<b>Total tubes .....</b>	<b>2,728,837</b>	<b>1,084,875</b>	<b>—</b>	<b>3,813,712</b>	<b>8,346,771<sup>2</sup></b>

<sup>1</sup> Included with "Tire tubes, n.e.s." as figures are confidential.<sup>2</sup> See Table 3.

TABLE 7. Shipments of Other Products, 1961

Principal products	Quantity	Value
		\$
Clothing (rubber, rubberized, plastic, etc.)..... doz.	16,038	1,428,371
Fabrics (rubberized, plastic-coated, etc.)..... sq. yd	4,462,660	2,781,856
Artificial and imitation leather .....	1	1
Rubber and composition soles (full and taps) ..... pr.	6,242,054	2,178,638
Rubber and composition heels .....	14,454,101	1,955,217
Rubber and composition soling and toplifting sheets ..... lb.	15,258,161	4,959,666
Belts and belting:		
Conveyor .....	6,512,862	4,876,047
Transmission, flat type .....	607,042	1,017,025
" V-type, automotive fan belts .....	No. 2,276,532	1,764,184
" V-type, fractional h.p. belts .....	" 1,872,280	1,068,237
" V-type, other .....	lb. 1,270,013	2,700,819
Rubber belts and belting, other .....	" 300,626	427,882
Hose and tubing:		
Garden hose, rubber .....	ft. 15,056,622	1,399,868
" " plastic .....	lb. 348,749	441,223
Fire hose, all kinds .....	" 1,133,268	1,020,381
Water hose, other .....	" 719,637	756,141
Oil and gasoline hose .....	" 8,250,998	7,749,109
Rubber hose, other .....	" 469,154	418,591
Rubber tubing .....	" 429,390	429,511
Plastic pipe, hose and tubing, n.e.s. ....	" 1,607,759	1,270,450
Other extruded plastic products, n.e.s. ....	" 3,963,170	2,369,014
Rubber packing, all kinds .....	" ...	2,970,479
Rubber supplies, such as washers, gaskets, etc. ....	lb. 868,009	1,497,687
Rubber thread, covered and not covered .....	" 1,445,778	1,242,855
Rubber and friction tape .....	" 313,728	1,257,751
Pressure sensitive tape, including cellulose <sup>1</sup> .....	No. 653,780	1,541,211
Rubber covered rolls, wringer, etc. ....	lb. 2,224,267	2,232,591
Rubber roll covering .....	" 3,567,410	1,071,675
Rubber coverings and linings, for tanks, pipes, etc. ....	No. 787,796	2,797,390
Rubber floor mats, matting, stair treads, etc. ....	sq. ft. 191,681	197,453
Rubber mats for automobiles .....	lb. 873,245	363,503
Link mats for doors, etc. ....	" 1	1
Rubber sheet flooring and wainscoting .....	" 1	1
Rubber tiles <sup>2</sup> .....	" 1	1

See footnotes at end of table.



TABLE 7. Shipments of Other Products, 1961 — Concluded

Principal products	Quantity	Value
		\$
Rubber tires and tiring, for baby carriages, etc.....	lb. 1,174,811	211,453
Repair gums and fabrics .....	" 791,264	646,558
Other unvulcanized gums .....	" 861,244	405,379
Tread rubber (Camelback) .....	" 21,100,206	7,339,677
Cured rubber, in slabs .....	" 704,270	651,235
Cements and adhesives .....	gal. 829,373	2,592,386
Tire and tube repair materials (patches, etc.) .....	No. 3,707,661	1,430,972
Tube repair kits .....	" 726,807	152,879
Tire flaps .....	" 77,894	116,702
Rubber blankets, printers', etc. ....	lb. 328,759	318,467
Battery containers .....	}	3,298,326
Battery covers, vents, etc. ....		
Channel rubber .....		
Rubber automotive and aeroplane parts, n.e.s. ....	lb. 516,179	205,844
	" 7,016,713	4,109,948
Druggists' and medical sundries:		
Hot water bottles .....	}	541,663
Fountain syringes .....		
Bulb syringes and bulbs .....		
Combination attachment sets .....		
Nipples and soothers .....		
Ice caps and collars, etc. ....		
Rubber, rubberized and plastic-coated sheeting .....		
Sheets, rubber .....	doz. 28,875	243,276
Gloves, rubber .....	doz. pr. 196,856	983,721
Gloves, plastic, rubberized and plastic coated fabric .....	" 29,168	203,833
Air cushions, invalid rings, etc. ....	}	219,366
All other (trusses and pads, finger cots, etc.) .....		
Rubber jar rings .....	1	1
Weatherstripping, all kinds .....	lb. 4,321,052	1,905,084
Aprons, rubber, rubberized and plastic .....	doz. 4,355	117,637
Bathing caps, shower caps, etc. ....	1	1
Rubber play balls, including bladders for footballs .....	1	1
Rubber toys and novelties (including dolls) .....	doz. 21,742	76,699
Hockey pucks .....	1	1
Balloons, toy .....	gross 328,561	596,762
Extruded rubber goods, n.e.s. ....	lb. 1,742,058	750,426
Moulded rubber goods, n.e.s. ....	..	4,688,942
Moulded plastics, n.e.s. ....	..	1,671,216
Other plastic products, n.e.s. (bags, covers, synthetic resin film, tiles, toys, folding doors, etc.) .....	..	3,873,688
Sponge and hard rubber mats, pads, cushions, etc. ....	lb. 199,922	113,951
Foamed latex and chemically blown rubber <sup>4</sup> .....	1	1
Rug underlay or cushioning .....	1	1
Latex compounds (natural and synthetic) .....	lb. 8,366,958	3,227,758
All other products (including reclaimed rubber, stationery goods, etc.) .....	...	42,796,752
Amount received for contract work .....	...	1,924,905
<b>Total value of other products .....</b>	<b>...</b>	<b>141,600,330<sup>5</sup></b>

<sup>1</sup> Included in "All other products."<sup>2</sup> The preliminary value of shipments of pressure-sensitive tape, in all industries, was \$11,488,379 in 1961.<sup>3</sup> The preliminary shipments of rubber tiles, in all industries, were 5,241,881 sq. ft. valued at \$1,642,519 in 1961.<sup>4</sup> The preliminary shipments of foamed latex and chemically blown rubber, in all industries, were 4,677,016 lb. valued at \$4,539,366 in 1961.<sup>5</sup> See Table 3.

**Note:** Figures given above are not necessarily complete, as some items may appear as major or secondary products in other industries. For Canada totals reference should be made to the annual report on "General Review of the Manufacturing Industries of Canada" (Catalogue No. 31-201).

TABLE 8. Materials Used, 1961

Principal materials	Quantity	Value
		\$
Rubber, natural <sup>1</sup> .....	lb. 70,782,942	20,634,263
Rubber, reclaimed <sup>1</sup> .....	" 35,899,802	4,136,188
Rubber, synthetic <sup>1</sup> .....	" 139,794,540	30,961,706
Rubber, scrap.....	" 18,573,667	684,876
Crude allied gums.....	" 37,117	95,558
Latex compounds.....	" 708,839	228,007
Rubber, other (including master batches, tread rubber, tubing, etc.) ..	" ..	698,943
Plastics, synthetic resins.....	lb. 19,434,242	3,940,099
Plastics, other.....	" 1,934,952	1,396,536
Tire fabrics, cotton.....	" 1,667,400	1,332,731
" " rayon.....	" 16,119,646	12,836,014
Tire fabrics, all other (nylon, etc.) ..	" 10,704,978	13,721,584
Hose fabrics.....	" 505,864	371,262
Belting duck.....	" 2,598,868	1,846,117
Belting fabrics, other.....	" 494,420	443,578
Holland cloth.....	" 79,007	81,892
Shoe fabrics, other than leather.....	" 745,119	796,251
Miscellaneous cottons.....	yd. 8,378,485	2,364,024
Other fabrics, n.e.s. ....	" 6,449,180	3,130,108
Yarns, cotton.....	lb. 303,323	292,960
" rayon, nylon, etc. ....	" 1,098,189	985,460
Felt.....	" 17,615	22,340
Jutex.....	" 677,976	103,361
Fur.....	yd. 724,292	189,386
Mouton shearlmg.....	lb. 75,890	62,233
Leather.....	" 360,203	469,573
Leather tops for boots.....	prs. 20,747	43,098
Carbon black.....	lb. 73,220,773	6,192,129
China clay.....	" 18,198,458	311,399
Other clays and earths.....	" 7,615,023	161,300
Mica, ground.....	" 483,729	47,816
Solvents.....	gal. 3,250,057	1,094,171
Sulphur.....	lb. 6,442,763	391,929
Whiting.....	" 19,522,353	304,108
Litharge.....	" 177,907	126,803
Zinc oxide.....	" 9,405,116	1,288,254
Talc and soapstone.....	" 2,861,316	73,983
Barytes.....	" 721,567	32,049
Titanium dioxide.....	" 1,869,110	465,436
Accelerators, n.e.s. ....	" 3,277,637	1,715,737
Coloring agents, n.e.s.....	" 2,472,420	543,537
Plasticizers, n.e.s.....	" 16,353,312	2,536,225
Anti-oxidants, n.e.s.....	" 3,587,900	1,968,369
Fillers, n.e.s. ....	" 18,431,620	766,399
Other chemicals, n.e.s. ....	" ..	4,069,326
Oils.....	lb. 216,068	30,885
Wire.....	" 9,732,830	2,150,942
Hardware fittings (hose couplings, cocks, etc.).....	...	1,500,204
Shoe findings, buckles, eyelets, etc.....	...	1,115,655
Lacquers, etc. (dispersions of resins).....	gal. 104,701	268,378
Rubber cement.....	" 102,451	175,807
Paints, varnishes, etc.....	" 71,725	85,672
Thread for sewing.....	...	21,483
Hose jackets.....	...	126,442
All other materials <sup>2</sup> .....	...	7,140,010
Containers and packaging material.....	...	4,143,768
Operating, maintenance and repair supplies.....	...	7,373,188
Amount paid out for contract work.....	...	594,402
<b>Total.....</b>	<b>...</b>	<b>148,683,954</b>

<sup>1</sup> For details of "Rubber used" see Tables 15, 16, 17, 18 and 19.<sup>2</sup> No detailed information on materials used was collected from small establishments. The estimated value of materials used by these establishments was \$237,432 in 1961 and this amount has been included in "All other materials."

TABLE 9. Employees and their Earnings, by Industry and by Province, 1961

Industry and Province	Supervisory and office employees			Production workers (monthly averages)			Total employees and total earnings		
	Male	Female	Salaries	Male	Female	Wages	Male	Female	Salaries and wages
	number		\$	number		\$	number		\$
Canada .....	3,300	1,298	24,226,119	11,386	2,876	57,777,666	14,686	4,174	82,003,785
Footwear manufacturers	435	228	2,610,868	1,871	1,489	10,058,800	2,306	1,717	12,669,668
Tire and tube manufacturers	1,432	504	10,772,704	5,328	238	27,241,246	6,760	742	38,013,950
Other rubber industries ..	1,433	566	10,842,547	4,187	1,149	20,477,620	5,620	1,715	31,320,167
Quebec .....	924	383	6,359,760	3,080	1,316	14,777,288	4,004	1,699	21,137,048
Ontario .....	2,309	908	17,443,063	8,002	1,549	41,862,797	10,311	2,457	59,305,860
Other provinces .....	67	7	423,296	304	11	1,137,581	371	18	1,560,877

TABLE 10. Production Workers, by Months, 1961

Month	Male	Female
	number	
January .....	10,858	2,668
February .....	10,752	2,612
March .....	10,749	2,621
April .....	11,038	2,720
May .....	11,321	2,872
June .....	11,563	2,961
July .....	11,598	2,885
August .....	11,711	2,980
September .....	11,855	3,112
October .....	11,914	3,185
November .....	11,734	3,057
December .....	11,464	2,820
Monthly averages <sup>1</sup> .....	11,386	2,876

<sup>1</sup> The monthly detail of production workers was not collected from medium and small establishments. Quarterly detail and annual averages reported respectively, by these establishments, were included in each month's total.

TABLE 11. Principal Statistics grouped by Size of Establishment, 1961

Size of shipments	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity	Cost of materials used	Value of shipments
	number		dollars			
Under \$10,000 .....	4	4	6,626	782	10,355	16,694
\$ 10,000 to \$ 24,999 .....	10	33	84,575	3,769	58,760	171,061
25,000 " 49,999 .....	4	19	46,486	1,577	46,722	128,873
50,000 " 99,999 .....	4	27	104,017	4,235	129,519	331,868
100,000 " 199,999 .....	9	169	436,272	35,993	659,568	1,384,163
200,000 " 499,999 .....	13	417	1,469,392	100,402	1,480,133	4,205,699
500,000 " 999,999 .....	12	587	2,145,936	159,133	4,500,809	9,341,545
1,000,000 " 4,999,999 .....	17	2,635	9,483,736	657,350	17,029,019	41,859,618
5,000,000 and over .....	20	14,719	66,665,969	4,312,806	124,769,069	273,695,192
Head office .....	...	250	1,560,776	...	...	...
Totals .....	93	18,860	82,003,785	5,276,047	148,683,954	331,134,713



TABLE 12. Principal Statistics classified according to Type of Ownership, 1961

Type of ownership	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost of materials used	Value of shipments
	number		dollars			
Individual ownership .....	8	50	108,466	6,367	77,627	284,739
Partnership .....	1					
Incorporated companies .....	84	18,810	81,895,319	5,269,680	148,606,327	330,849,974
Totals .....	93	18,860	82,003,785	5,276,047	148,683,954	331,134,713

TABLE 13. Principal Statistics grouped by Number of Employees, 1961

Number of employees	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost of materials used	Value of shipments
	number		dollars			
Under 5 employees .....	17	43	128,303	4,861	122,133	330,180
5 to 14 employees .....	13	135	465,743	31,236	1,389,046	2,491,691
15 " 49 " .....	20	581	2,209,190	165,029	5,622,744	10,193,788
50 " 99 " .....	11	806	2,618,670	220,539	3,471,840	9,777,934
100 " 199 " .....	9	1,180	4,693,231	426,936	10,872,791	25,760,387
200 " 499 " .....	10	3,507	14,584,922	1,051,043	24,900,061	59,854,113
500 " 999 " .....	8	5,340	21,604,207	1,226,778	31,107,270	71,897,311
1,000 and over .....	5	7,018	34,138,743	2,149,625	71,198,069	150,829,309
Head office .....	...	250	1,560,776	...	...	...
Totals .....	93	18,860	82,003,785	5,276,047	148,683,954	331,134,713

TABLE 14. Fuel and Electricity, 1961

Kind	Quantity	Value
		\$
1. Establishments reporting commodity detail: <sup>1</sup>		
Bituminous coal:		
(a) From Canadian mines .....	ton	5,948
(b) Imported .....	"	133,910
Anthracite coal .....	"	651
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	309,873
Fuel oil including kerosene or coal oil .....	"	5,955,728
Wood .....	cords	75
Gas:		
(a) Liquefied petroleum gases .....	Imp. gal.	16,281
(b) Other manufactured gas .....	M cu. ft.	11,052
(c) Natural gas .....	"	201,754
Electricity purchased .....	kwh.	301,118,527
Steam purchased .....	pound	165,128,258
2. Establishments reporting group detail: <sup>2</sup>		
Cost of fuel .....	...	60,749
Cost of electricity .....	...	41,960
3. Estimate for establishments for which no data were collected: <sup>3</sup>		
Cost of fuel and electricity .....	...	19,034
4. All establishments:		
Total cost of fuel and electricity .....	...	5,276,047

<sup>1</sup> Large establishments.<sup>2</sup> Medium-size establishments.<sup>3</sup> Small establishments.

The statistics contained in the body of this report are compiled from returns submitted annually by firms whose principal operations necessitate that they be classified under the Rubber Industries. However, there are other firms using rubber, most notably those engaged in Wire and Cable manufacturing, whose operations are outside the scope of the Rubber Industries. In order that there may be available a total picture of rubber as a **Commodity** a monthly survey is maintained, in which all firms

using rubber at the raw level are included. This survey results in statistics on the total consumption of rubber, by types, and by broad end product use groups, and data of this nature compiled from monthly returns are presented in the special supplementary tables following this text.

Because of rounding, the totals in Tables 16 to 19, inclusive, do not always agree with the total of the monthly figures.

**TABLE 15. Consumption of Synthetic Rubber, by Types and by Months, 1961**

Month	Buna - S		Butyl	Neoprene	Buna - N	Other	Total
	Solid	Latex					
	pounds						
January .....	8,164,800	398,720	732,480	492,800	82,880	69,440	9,941,120
February .....	8,001,280	378,560	790,720	499,520	87,360	76,160	9,833,600
March .....	8,783,040	430,080	828,800	553,280	91,840	98,560	10,785,600
April .....	8,691,200	492,800	1,014,720	678,720	80,640	80,640	11,038,720
May .....	9,777,600	504,000	1,077,440	517,440	85,120	103,040	12,064,640
June .....	10,808,000	582,400	1,115,520	604,800	107,520	129,920	13,348,160
July .....	8,554,560	389,760	757,120	387,520	82,880	89,600	10,261,440
August .....	8,093,120	519,680	745,920	546,560	112,000	114,240	10,131,520
September .....	10,427,200	613,760	844,480	689,920	114,240	120,960	12,810,560
October .....	11,648,000	624,960	855,680	602,560	116,480	134,400	13,982,080
November .....	11,367,800	663,040	893,760	609,280	100,800	114,240	13,748,920
December .....	10,234,560	582,400	781,760	651,840	103,040	98,560	12,452,160
Totals .....	114,551,160	6,180,160	10,438,400	6,834,240	1,164,800	1,229,760	140,398,520

**TABLE 16. Consumption of Synthetic Rubber, in Total, by End Products, and by Months, showing also Percentage of Synthetic to All Rubber Consumed, 1961**

Month	Synthetic		Consumed in the manufacture of			
	Total	Percentage of all rubber	Tires and tubes <sup>1</sup>	Wire and cable	Footwear <sup>2</sup>	Other products
	' 000 lbs.	%	' 000 lbs.			
January .....	9,941	54.8	6,832	500	1,042	1,568
February .....	9,834	55.4	6,700	464	1,248	1,422
March .....	10,786	54.6	7,356	517	1,203	1,709
April .....	11,039	56.1	7,372	782	1,120	1,765
May .....	12,065	55.9	8,476	571	1,183	1,835
June .....	13,348	57.4	9,401	659	1,216	2,072
July .....	10,261	56.3	7,869	343	656	1,393
August .....	10,132	58.3	6,521	614	1,140	1,857
September .....	12,811	57.7	8,956	838	1,046	1,971
October .....	13,982	58.2	9,993	625	1,252	2,112
November .....	13,749	57.1	9,726	638	1,216	2,168
December .....	12,452	57.8	8,646	650	1,111	2,045
<b>Totals .....</b>	<b>140,399</b>	<b>56.7</b>	<b>97,848</b>	<b>7,201</b>	<b>13,433</b>	<b>21,917</b>

<sup>1</sup> Includes "tire repair materials".

<sup>2</sup> Includes "heels, soles, etc.".

**TABLE 17. Consumption of Natural Rubber in Total, by End products, and by Months, showing also Percentage of Natural to All Rubber Consumed, 1961**

Month	Natural		Consumed in the manufacture of			
	Total	Percentage of all rubber	Tires and tubes <sup>1</sup>	Wire and cable	Footwear <sup>2</sup>	Other products
	'000 lbs.	%	'000 lbs.			
January .....	5,452	30.1	2,786	29	504	1,133
February.....	5,150	29.0	3,490	31	493	1,136
March.....	5,876	29.7	4,104	34	506	1,232
April.....	5,586	28.4	3,842	43	500	1,201
May.....	6,026	27.9	4,252	40	551	1,183
June.....	6,467	27.8	4,556	36	544	1,331
July.....	5,311	29.1	4,010	18	318	965
August.....	4,827	27.8	3,149	47	594	1,037
September.....	6,350	28.6	4,426	56	614	1,254
October.....	6,972	29.0	4,975	40	665	1,292
November.....	7,040	29.2	5,067	40	672	1,261
December.....	6,021	27.9	4,209	40	466	1,306
<b>Totals.....</b>	<b>71,078</b>	<b>28.7</b>	<b>49,866</b>	<b>454</b>	<b>6,427</b>	<b>14,331</b>

<sup>1</sup> Includes "tire repair materials".<sup>2</sup> Includes "heels, soles, etc".**TABLE 18. Consumption of Reclaimed Rubber in Total, by End Products, and by Months, showing also Percentage of Reclaimed to All Rubber Consumed, 1961**

Month	Reclaimed		Consumed in the manufacture of			
	Total	Percentage of all rubber	Tires and tubes <sup>1</sup>	Wire and cable	Footwear <sup>2</sup>	Other products
	'000 lbs.	%	'000 lbs.			
January .....	2,737	15.1	1,810	4	184	739
February.....	2,783	15.7	1,723	—	240	820
March.....	3,100	15.7	2,162	—	253	685
April.....	3,054	15.5	2,085	2	228	739
May.....	3,481	16.1	2,419	2	251	809
June.....	3,438	14.8	2,509	—	235	694
July.....	2,650	14.5	1,967	2	146	535
August.....	2,419	13.9	1,577	2	269	571
September.....	3,044	13.7	2,096	2	267	679
October.....	3,084	12.8	2,132	4	289	659
November.....	3,299	13.7	2,303	2	318	676
December.....	3,075	14.3	2,144	2	237	692
<b>Totals.....</b>	<b>36,164</b>	<b>14.6</b>	<b>24,927</b>	<b>22</b>	<b>2,917</b>	<b>8,298</b>

<sup>1</sup> Includes "tire repair materials".<sup>2</sup> Includes "heels, soles, etc".**TABLE 19. Consumption of All Rubber, by Main Types and by End Products Classification, 1961**

End products	Natural	Synthetic	Reclaimed	Total all rubber
	'000 lbs.			
Tires, tubes and tire repair materials .....	49,866	97,848	24,927	172,641
Wire and cable .....	454	7,201	22	7,677
Footwear (including heels, soles, etc.) .....	6,427	13,433	2,917	22,777
Other products .....	14,331	21,917	8,298	44,546
<b>Totals .....</b>	<b>71,078</b>	<b>140,399</b>	<b>36,164</b>	<b>247,641</b>







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