



# COMMUNICATIONS EQUIPMENT MANUFACTURERS

## 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 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.



# COMMUNICATIONS EQUIPMENT MANUFACTURERS

## 1961

Data for 1961 presented in this report reflect implementation of the revised Standard Industrial Classification (S.I.C.) and New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of 1961 industry statistics—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report. For statistical purposes the industry titled Communications Equipment Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing radio and television transmitters, radar equipment, closed circuit television equipment, and electronic navigational aids, public address apparatus, and the related parts and equipment. Included are establishments primarily engaged in manufacturing telephone and telegraph equipment and parts. This industry includes establishments primarily engaged in manufacturing electronic control panels and similar devices.

The introduction of the new definition of establishment (reporting units) in the 1961 Census of Manufactures has resulted in certain changes and necessitated some adjustments to the statistics. For the most part the changes involved combinations of reporting units, transfers to trade and adjustments resulting from a change in the basis of valuation.

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 report. In general the tables affected are the following: Directory of firms—Imports—Exports—Capital and Repair Expenditures.

**Note:** In addition to accommodating the changes resulting from the introduction of the new Standard Industrial Classification and the new definition of establishment, data as presented in the 1961 report for this industry reflect a change in the treatment of progress payments. In the past, changes in the progress payments accounts of establishments with inventory held under progress payments were handled as a direct adjustment to value added. However, as of 1961, changes in progress payments accounts of these establishments are being incorporated as part of the value of shipments—see Table 3. Figures for years back to 1957 (Table 1) have been adjusted to reflect this change in procedure.



TABLE 1. Principal Statistics: Communications Equipment Manufacturers, by Provinces, 1957-61

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture	Value of factory shipments
	number		dollars				
1957							
Quebec .....	26	12,479	50,591,149	554,361	28,487,980		97,875,617
Ontario .....	88	9,429	34,053,033	650,717	34,690,621		87,131,916
Other provinces .....	14	814	3,237,270	51,374	4,746,156		9,669,937
<b>Canada .....</b>	<b>128</b>	<b>22,722</b>	<b>87,881,452</b>	<b>1,256,452</b>	<b>67,924,757</b>		<b>194,677,470</b>
1958							
Quebec .....	23	11,131	49,326,045	541,597	22,608,995	59,796,107	86,636,013
Ontario .....	89	10,000	37,466,647	605,846	41,142,466	65,086,626	107,505,263
Other provinces .....	11	550	2,331,733	53,347	2,869,380	3,689,958	6,702,019
<b>Canada .....</b>	<b>123</b>	<b>21,681</b>	<b>89,124,425</b>	<b>1,200,790</b>	<b>66,620,841</b>	<b>128,572,691</b>	<b>200,843,295</b>
1959							
Quebec .....	26	11,326	52,865,395	629,821	26,824,651	66,862,466	92,461,474
Ontario .....	89	10,343	40,353,402	647,016	40,929,608	71,470,169	110,412,218
Other provinces .....	11	600	2,507,076	51,414	2,113,296	3,341,032	5,481,255
<b>Canada .....</b>	<b>126</b>	<b>22,269</b>	<b>95,725,873</b>	<b>1,328,251</b>	<b>69,867,555</b>	<b>141,673,667</b>	<b>208,354,947</b>
1960							
Quebec .....	25	12,203	57,880,369	740,267	31,526,732	83,871,915	111,872,151
Ontario .....	92	10,098	41,417,239	707,227	46,462,069	64,114,557	112,000,584
Other provinces .....	12	663	2,911,494	57,405	3,286,609	6,847,523	9,059,369
<b>Canada .....</b>	<b>129</b>	<b>22,964</b>	<b>102,209,102</b>	<b>1,504,899</b>	<b>81,275,410</b>	<b>154,833,995</b>	<b>232,932,104</b>
1961							
Quebec .....	23	11,036	54,952,948	624,545	25,745,560	65,230,695	91,155,596
Ontario .....	90	12,652	50,935,846	808,605	64,359,836	89,861,079	148,365,530
Other provinces .....	12	879	3,769,758	58,801	3,644,505	8,196,698	11,563,064
<b>Canada .....</b>	<b>125</b>	<b>24,567</b>	<b>109,658,552</b>	<b>1,491,951</b>	<b>93,749,901</b>	<b>163,288,472</b>	<b>251,084,190</b>

<sup>1</sup> Because of lack of inventory data "Value added" is not available for 1957.

TABLE 2. Inventories:<sup>1</sup> Communications Equipment Manufacturers, 1961

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening: <sup>2</sup>				
Quebec .....	3,599,238	27,641,963	6,060,052	37,301,253
Ontario .....	7,249,047	14,878,459	6,393,878	28,521,384
Other provinces .....	1,124,199	1,996,107	371,600	3,491,906
<b>Canada .....</b>	<b>11,972,484</b>	<b>44,516,529</b>	<b>12,825,530</b>	<b>69,314,543</b>
Closing:				
Quebec .....	4,589,697	30,048,412	4,098,807	38,736,916
Ontario .....	8,730,703	18,883,061	9,053,266	36,667,030
Other provinces .....	1,756,098	2,312,150	392,497	4,460,745
<b>Canada .....</b>	<b>15,076,498</b>	<b>51,243,623</b>	<b>13,544,570</b>	<b>79,864,691</b>

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

<sup>2</sup> The opening inventory for 1961 differs from the closing inventory of 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. Factory Shipments: Communications Equipment Manufacturers, 1961

Item	Quantity	Value of factory shipments
		\$
Domestic radio receiving sets and record players .....No.	3,406	174,589
Broadcast studio equipment (radio and television) including transmitters, antenna equipment, etc. ....	...	8,288,547
Radio communication equipment for civilian use .....	...	6,888,242
Radio communication equipment for defence .....	...	15,110,504
Radar equipment, commercial and defence .....	...	25,806,083
Sonar equipment, commercial and defence .....	...	1,341,014
→ Navigational equipment, airborne and marine .....	...	13,562,551 ←
Telephone materials, excluding intercommunication and inter-office .....	...	87,802,007
Multiplex equipment .....	...	411,881
Signal systems, traffic, fire alarm, etc. ....	...	4,064,898
Electronic tubes ..... No.	12,391,560	19,003,365
Antennae and antenna parts and mounting, domestic type .....	...	2,940,323
Spare parts (less tubes) for maintenance of electronic telecommunication equip- ment and other electronic equipment, commercial and defence .....	...	1,691,544
Contract maintenance of electronic equipment, commercial and defence .....	...	4,052,118
Electronic sound equipment including amplifiers, loud speakers, public address systems, etc. ....	...	3,370,403
All other radio and electronic equipment .....	...	11,866,081
All other products .....	...	43,712,343
Amount received for repairs .....	...	311,177
Amount received in payment for work done on materials owned by others .....	...	3,201,213
Less adjustment for value of sales taxes, excise duties and outward transporta- tion charges which were not deducted from individual commodity items de- tailed above .....	...	253,134,190
<b>Total value of shipments and work done .....</b>	<b>...</b>	<b>153,134,190</b>
Adjustment for work put in place but not shipped during year .....	...	2,050,000
<b>Adjusted total .....</b>	<b>...</b>	<b>251,084,190</b>

Note: Data given in this table cover only the output of firms which were engaged chiefly in making communications equipment other than radio and television receiving sets and record players and which have been classified in the new S.I.C. Industry Communications Equipment Manufacturers. Figures for the individual items shown do not necessarily represent the total output for Canada as in some cases there was also a production in other industries. Supplementary tables have been added to show factory shipments from all industries of specified items of communications equipment and capacitors — see Table 5 and Table 6.

TABLE 4. Materials Used: Communications Equipment Manufacturers, 1961

	Quantity	Cost at plant
		\$
Aluminum — Castings .....	lb. 162,755	103,519
Wire rods .....	" 232,949	144,163
Sheets and strip .....	" 1,834,531	955,546
Other .....	... ..	388,679
Brass and bronze — Castings .....	lb. 71,008	43,808
Wire rods .....	" 719,220	303,656
Sheets and strip .....	" 1,026,287	551,765
Other .....	... ..	242,031
Copper — Wire rods .....	lb. 81,825	40,986
Sheets and strip .....	" 61,737	48,768
Tubing and pipe .....	" 85,748	64,328
Wire, enamelled .....	" 1,041,352	1,034,975
Wire, other insulated .....	... ..	609,833
Other .....	... ..	151,613
Glass tubing and cane .....	... ..	1,019,650
Insulating varnishes, japans, enamels and lacquers .....	... ..	61,860
Iron and steel:		
Castings — Iron (gray and malleable) .....	ton 11	4,560
Steel .....	" 52	21,240
Steel bars and rods .....	" 1,113	235,608
Steel sheets and strip — Plain .....	" 5,243	1,109,276
Galvanized .....	" 461	98,857
Steel wire .....	" 20	3,799
Structural steel .....	" 287	54,312
Other steel (except alloy) .....	... ..	145,908
Alloy steel — all forms:		
Stainless .....	... ..	163,100
Silicon sheets and strips .....	ton 1,168	503,243
Other alloy .....	... ..	212,807
Lead .....	lb. 33,094	21,849
Mica, unfabricated forms only .....	" 12,384	11,382
Motors, electric — Under 1 h.p. ....	No. 20,225	82,455
1 h.p. and over, A.C. or D.C. ....	" 10	950
Paints, stains, lacquers, for finishing only .....	... ..	155,529
Resins, synthetic, all types .....	... ..	734,324
Resistance wire ribbon and strip .....	... ..	178,265
Tubes, electronic .....	No. 738,554	1,233,564
Tungsten wire .....	... ..	57,570
All other materials <sup>1</sup> .....	... ..	76,215,251
Containers and other packaging materials and supplies .....	... ..	1,205,366
Operating supplies, maintenance supplies and repair supplies .....	... ..	5,535,506
<b>Total cost of materials</b> .....	<b>...</b>	<b>93,749,901</b>

<sup>1</sup> No detailed information on materials used was collected from small establishments. The total value of materials used by these firms in 1961 was \$3,047,350 and this amount is included in "All other materials".

TABLE 5. Specified Communications Equipment,<sup>1</sup> 1961 (from All Industries)

Products	Quantity shipped	Value of factory shipments
		\$
Broadcast studio equipment (radio and television) including transmitters, antenna equipment, etc. ....	...	8,288,547
Radio communication equipment for civilian use:		
Aviation .....	...	2,541,418
Marine .....	...	2,503,315
Land mobile .....	...	2,155,965
Point to point .....	...	2,497,227
Radio communication equipment for defence:		
Aviation .....	...	7,190,271
Marine .....	...	393,155
Land mobile .....	...	1,601,500
Point to point .....	...	6,809,083
Radar equipment—commercial and defence .....	...	25,917,377
Airborne navigational equipment .....	...	15,868,077
Telephone materials, including central and private branch exchange switchboard, telephones, transmitters, receivers, parts and supplies, excluding intercommunication telephones and inter-office communication sets .....	...	87,821,751
Inter-office communication sets, electronic type .....	...	547,440
Carrier current equipment .....	...	12,457,430
Multiplex equipment .....	...	411,881
Traffic signal systems .....	...	716,138
Fire alarm signal systems .....	...	1,536,228
Interior signal and clock systems, excluding telephones and inter-office communication sets .....	...	2,428,302
Electronic tubes:		
Electronic receiving tubes—Entertainment type .....	13,624,910	9,690,327
Other (including power, industrial and military) .....	680,116	3,952,993
Television picture tubes (including rebuilt tubes) .....	532,561	10,496,440
Miscellaneous electronic equipment:		
Antennae and antenna parts and mountings, domestic type .....	...	2,940,323
Resistors, electronic (excluding power service) .....	...	3,910,168
Electronic control (relays, photo-electric timing, capacitance, etc. and electronic control panels for industrial application) .....	...	1,236,229
Radio frequency heating equipment .....	...	121,650
Spare parts (less tubes) for maintenance of electronic telecommunication equipment and other electronic equipment—commercial and defence .....	...	2,303,244
Contract maintenance of electronic telecommunication equipment and other electronic equipment—commercial and defence .....	...	4,905,453
Electronic sound equipment—including amplifiers, loud speakers, public address systems etc. ....	...	3,534,184
All other radio and electronic equipment (not specified elsewhere) <sup>2</sup> .....	...	27,716,280
<b>Total<sup>3</sup></b> .....	...	<b>252,492,396</b>

<sup>1</sup> For record players, radio and television receiving sets see Catalogue No. 43-205.

<sup>2</sup> (a) Including semi-conductors, crystals, closed circuit industrial television, sonar equipment etc. where less than three firms reported shipments.

(b) Does not include capacitors—see Table 6.

(c) Transformers for radio, T.V. and other electronic applications not included—see Catalogue No. 43-207.

<sup>3</sup> There is also other electronic equipment included in Catalogue No. 47-206 "Scientific and Professional Equipment Manufacturers".

TABLE 6. Factory Shipments of Capacitors, 1961 (from All Industries)

Item	Value of factory shipments
	\$
Radio and T.V. capacitors, including radio condensers .....	3,663,260
Capacitors for electronic application (other than radio and T.V.) .....	2,819,648
Fluorescent ballast capacitors .....	
Miscellaneous capacitors .....	
<b>Total</b> .....	<b>6,482,908</b>



**TABLE 7. Principal Statistics classified according to Type of Ownership:  
Communications Equipment Manufacturers, 1961**

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity used	Cost at plant of materials used	Selling value of factory shipments
	number		dollars			
Individual ownership .....	7	} 55	122,538	23,748	290,162	448,390
Partnerships .....	1					
Incorporated companies .....	117	24,512	109,536,014	1,468,202	93,459,739	250,635,800
<b>Totals</b> .....	<b>125</b>	<b>24,567</b>	<b>109,658,552</b>	<b>1,491,951</b>	<b>93,749,901</b>	<b>251,084,190</b>

**TABLE 8. Principal Statistics grouped according to Selling Value of Factory Shipments:  
Communications Equipment Manufacturers, 1961**

Establishments reporting factory shipments of	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity used	Cost at plant of materials used	Selling value of factory shipments
	number		dollars			
Under \$10,000 .....	2	} 20	43,787	1,343	37,111	97,961
\$ 10,000 to \$ 24,999 .....	5					
25,000 " 49,999 .....	7	31	102,228	4,149	101,694	262,282
50,000 " 99,999 .....	14	153	450,667	29,501	369,036	1,069,096
100,000 " 199,999 .....	16	289	937,129	29,272	885,398	2,351,152
200,000 " 499,999 .....	27	1,175	3,523,334	75,138	3,663,817	9,325,539
500,000 " 999,999 .....	19	1,538	4,707,967	117,005	5,764,031	13,915,261
1,000,000 " 4,999,999 .....	24	5,345	20,391,078	354,747	20,055,014	51,273,346
5,000,000 and over .....	11	16,016	79,502,362	880,796	62,873,800	172,789,553
<b>Totals</b> .....	<b>125</b>	<b>24,567</b>	<b>109,658,552</b>	<b>1,491,951</b>	<b>93,749,901</b>	<b>251,084,190</b>

**TABLE 9. Employees and Their Earnings: Communications Equipment Manufacturers, 1961**

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
Quebec .....	3,709	920	4,128	2,279	11,036	28,067,397	26,885,551	54,952,948
Ontario .....	3,042	991	3,817	4,802	12,652	21,929,779	29,006,067	50,935,846
Other provinces .....	309	109	230	231	879	2,141,078	1,628,680	3,769,758
Canada .....	7,060	2,020	8,175	7,312	24,567	52,138,254	57,520,298	109,658,552



**TABLE 10. Production Workers, by Months: Communications Equipment Manufacturers, 1961**

Month	Establishments reporting monthly detail <sup>1</sup>	
	Male	Female
January .....	7,381	6,324
February .....	7,380	6,324
March .....	7,349	6,283
April .....	7,346	6,330
May .....	7,500	6,511
June .....	7,660	6,712
July .....	7,607	6,690
August .....	7,776	6,933
September .....	8,077	7,322
October .....	8,247	7,517
November .....	8,473	7,684
December .....	8,584	7,625
Average for establishments reporting monthly detail .....	7,791	6,878
Average estimated for small establishments <sup>2</sup> .....	384	434
Average for all establishments .....	8,175	7,312

<sup>1</sup> The number of production workers, by months, was collected only for large establishments.

<sup>2</sup> The monthly detail of production workers was not collected from small establishments. Only annual averages were collected from these establishments.

**TABLE 11. Fuel and Electricity Used: Communications Equipment Manufacturers, 1961**

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: <sup>1</sup>		
Bituminous coal—Imported .....	ton 3,316	42,304
Anthracite coal .....	" 400	7,986
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal. 127,773	56,469
Fuel oil including kerosene and coal oil .....	" 3,676,759	318,240
Gas—Liquefied petroleum gases .....	" 2,196	989
Natural .....	M cu. ft. 180,493	94,719
Other fuel .....	... ..	26,788
Electricity purchased .....	kwh. 88,969,199	811,431
Steam purchased .....	... ..	13,803
2. Estimate for establishments for which no data were collected: <sup>2</sup>		
Cost of fuel and electricity .....	... ..	119,222
3. All establishments:		
Total cost of fuel and electricity .....	... ..	1,491,951

<sup>1</sup> Large establishments.

<sup>2</sup> Small establishments.





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