

1960

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LAST ISSUE



# METAL FABRICATING INDUSTRIES

(Except Machinery and Transportation Equipment Industries)

1960

## General Review

First issue. This is a new industry group comprising certain industries formerly covered by the General Reviews for Iron and Steel Products (41-201) and Non-Ferrous Metal Products (41-202). These two reviews are discontinued with the 1959 issues. For further details see introductory text.

The General Review reports for industry groups will not be published for the years 1961 and 1962.

## ANNUAL CENSUS OF MANUFACTURES

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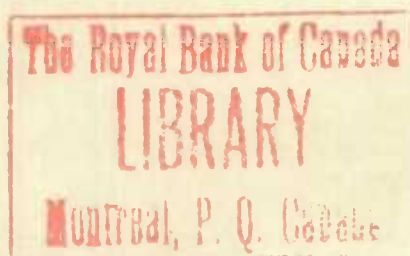
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### SYMBOLS

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 1960 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. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

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 1960 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

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory; sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

### 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.

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, ware-

housing and delivery staffs. 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 calendar years 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 but not their withdrawals for income tax. 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 works, including freight, duty, etc.

### Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies 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 refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant 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 are included. Goods bought or received as transfers



and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse 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 values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

### **Value added by Manufacturing**

Figures are computed from value of shipments plus or minus changes in inventories of finished goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.<sup>1</sup>

### **Standard Industrial Classification**

The revised Standard Industrial Classification which has been 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. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. 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.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

<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 office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

### **Short Forms**

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most 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 intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

# METAL FABRICATING INDUSTRIES

(Except Machinery and Transportation Equipment Industries)

1960

## General Review

Data presented in this report reflect implementation of the revised Standard Industrial Classification (S.I.C.) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics. The revised classification provides for a Metal Fabricating Industries group made up of nine separate industries under the title of "Metal Fabricating Industries (except Machinery and Transportation Equipment Industries)". These nine industries were formerly a part of the old S.I.C. group "Iron and Steel Products".

Implementation of the new S.I.C. also introduced a number of inter and intra industry changes. Details of these changes are included in footnote A below.

Factory shipments reported by the Metal Fabricating Industries group in 1960 were valued at \$1,432.9 millions, an increase of \$17.6 millions or about 1.2% over the comparable 1959 total of \$1,415.3 millions.

In 1960 there were 2,896 operating establishments in this group and they employed 98,505 persons who were paid salaries and wages of \$438,738,381. Materials used in manufacturing cost \$662,679,077 and fuel and electricity cost \$19,114,165.

### Note:

A. Attention is drawn to the fact that the 1960 compilations, as presented in this report, are on the basis of the revised Standard Industrial Classification (S.I.C.). Some of the changes are as follows:

1. The Boiler and Plate Works industry and the Fabricated Structural Metal industry were mutually affected by the introduction of the new Standard Industrial Classification. The most significant element was the transfer of establishments primarily engaged in fabricating and erecting large storage tanks which must be assembled on the site from the Boiler and Plate Works Industry to the Fabricated Structural Metal Industry.
2. The new industry "Ornamental and Architectural Metal Industry" comprises a major component of the old S.I.C. industries "Miscellaneous Iron and Steel Products Industry" and "The Sheet Metal Products Industry".
3. The new industry "Metal Stamping, Pressing and Coating Industry" comprises components

of the old S.I.C. industries "The Aluminum Products Industry", "The Brass and Copper Industry" and "The Sheet Metal Products Industry". Included as well, for the first time in 1960, are establishments primarily engaged in custom electroplating (other than with precious metals) and custom anodizing.

4. A significant element in the case of "Wire and Wire Products Manufacturers" was the transfer to this industry of establishments engaged in the manufacture of automatic screw machine products and fasteners such as bolts, nuts and rivets etc. which were previously classified in the Hardware, Tools and Cutlery Industry.
5. The industry "Hardware, Tool and Cutlery Manufacturers" was affected by the shift mentioned in item 4 above.
6. The industry "Heating Equipment Manufacturers" is comprised of establishments previously forming a major component of the old S.I.C. industry "The Heating and Cooking Apparatus Industry". Establishments primarily engaged in manufacturing domestic cooking equipment, electric and non-electric, are classified in industry number 332—"Manufacturers of Major Appliances" and domestic water tank heaters have been reclassified to industry number 331 "Manufacturers of Small Electrical Appliances".
7. In the case of "Machine Shops" changes brought about by the implementation of the revised Standard Industrial Classification were of a minor nature.
8. The new industry "Miscellaneous Metal Fabricating Industries" is comprised of components of the old S.I.C. industries "The Brass and Copper Industry", "The Iron Castings Industry", "The Miscellaneous Iron and Steel Products Industry" and "Miscellaneous Non-Ferrous Metal Products Industry".

B. Industry Bulletins carrying final figures for 1960 also include 1957, 1958 and 1959 data recompiled on the revised S.I.C. basis for the purposes of comparability.



## METAL FABRICATING INDUSTRIES

**TABLE 1. Principal Statistics: Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries), 1957 to 1959 and by Industries, 1960**

Year and Industry	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 .....	2,457	100,849	393,967,825	18,183,223	629,122,764	679,437,957	1,326,743,944
1958 .....	2,626	93,995	380,749,200	17,226,709	607,337,310	671,465,537	1,298,538,620
1959 .....	2,613	98,824	418,305,886	18,499,780	675,064,982	735,957,120	1,415,334,196
<b>1960</b>							
Boiler and plate works .....	71	4,709	20,745,095	773,673	33,137,842	33,741,357	68,503,973
Fabricated structural metal industry .....	73	15,195	73,032,191	2,191,050	110,143,733	120,730,315	233,165,690
Ornamental and architectural metal industry .....	514	8,775	34,922,715	1,354,380	52,987,173	60,424,451	115,176,064
Metal stamping, pressing and coating industry .....	519	20,808	92,585,517	4,337,789	171,009,071	173,714,658	349,079,849
Wire and wire products manufacturers .....	200	11,905	53,924,419	2,761,675	110,395,449	87,736,927	200,112,321
Hardware, tool and cutlery manufacturers .....	312	8,794	36,641,665	1,464,804	34,109,569	69,815,003	105,436,671
Heating equipment manufacturers .....	118	5,421	22,628,724	958,633	38,236,602	43,243,974	83,198,471
Machine shops .....	768	8,116	31,938,600	1,390,372	24,579,351	50,539,470	75,935,435
Miscellaneous metal fabricating industries .....	321	14,782	62,319,455	3,881,589	88,080,287	110,718,461	201,296,329
<b>Totals .....</b>	<b>2,896</b>	<b>98,505</b>	<b>428,738,381</b>	<b>19,114,165</b>	<b>662,679,077</b>	<b>750,664,816</b>	<b>1,432,904,803</b>

**TABLE 2. Principal Statistics: Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries) by Provinces, 1960**

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				
Newfoundland .....	6	175	576,818	35,804	842,410	890,658	1,667,473
Prince Edward Island .....	3	32	84,200	4,348	129,665	135,218	268,407
Nova Scotia .....	46	1,455	5,461,046	440,700	9,232,178	8,691,152	18,358,408
New Brunswick .....	30	955	3,211,174	192,940	5,183,960	5,248,065	10,800,590
Québec .....	709	26,483	112,482,817	4,635,656	173,907,316	184,983,306	364,574,944
Ontario .....	1,459	55,495	246,875,046	11,543,002	374,465,214	440,556,961	825,721,964
Manitoba .....	122	3,513	14,867,447	484,297	23,065,821	33,849,850	58,385,484
Saskatchewan .....	46	750	2,859,645	104,766	7,574,256	4,633,531	12,330,937
Alberta .....	159	3,805	16,081,385	552,749	27,754,171	28,282,311	55,983,238
British Columbia .....	314	5,482	26,238,803	1,119,903	40,524,086	43,393,764	84,813,358
<b>Canada .....</b>	<b>2,896</b>	<b>98,505</b>	<b>428,738,381</b>	<b>19,114,165</b>	<b>662,679,077</b>	<b>750,664,816</b>	<b>1,432,904,803</b>

TABLE 3. Inventories:<sup>1</sup> Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries) by Industries and Provinces, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
(a) By industries				
Opening:				
Boiler and plate works .....	7,665,522	8,179,404	1,629,483	17,474,409
Fabricated structural metal industry .....	43,227,467	23,527,380	926,499	67,681,346
Ornamental and architectural metal industry .....	10,312,165	4,041,999	2,770,560	17,124,724
Metal stamping, pressing and coating industry .....	31,834,298	12,922,401	18,538,804	63,295,503
Wire and wire products manufacturers .....	21,902,281	2,670,012	23,798,133	48,370,426
Hardware, tool and cutlery manufacturers .....	8,987,667	7,176,056	8,427,506	24,591,229
Heating equipment manufacturers .....	8,695,851	4,428,791	7,319,882	20,444,524
Machine shops .....	4,958,098	1,462,050	1,321,092	7,741,240
Miscellaneous metal fabricating industries .....	22,920,736	16,111,769	16,090,697	55,123,202
Totals .....	160,504,085	80,519,862	80,822,656	321,846,603
Closing:				
Boiler and plate works .....	6,848,822	7,224,620	1,733,166	15,806,608
Fabricated structural metal industry .....	40,452,765	22,581,121	825,907	63,859,793
Ornamental and architectural metal industry .....	9,404,310	3,908,738	2,493,761	15,806,809
Metal stamping, pressing and coating industry .....	27,108,612	12,502,647	18,940,427	58,551,686
Wire and wire products manufacturers .....	19,559,972	2,931,459	24,318,416	46,809,847
Hardware, tool and cutlery manufacturers .....	9,136,869	6,905,076	8,651,189	24,693,136
Heating equipment manufacturers .....	7,633,060	3,787,231	7,202,380	18,622,671
Machine shops .....	5,360,367	1,756,177	1,586,309	8,702,853
Miscellaneous metal fabricating industries .....	21,249,869	15,988,494	16,597,980	53,836,343
Totals .....	146,754,646	77,585,565	82,349,535	306,689,746
(b) By provinces				
Opening:				
Newfoundland .....	282,393	119,673	93,000	495,066
Prince Edward Island .....	19,454	—	4,126	23,580
Nova Scotia .....	3,538,170	1,819,139	1,124,637	6,481,946
New Brunswick .....	543,205	1,166,070	537,228	2,246,503
Quebec .....	41,916,393	17,844,058	23,412,982	83,173,433
Ontario .....	85,722,403	45,224,074	48,858,266	179,804,743
Manitoba .....	8,438,142	3,739,537	1,504,228	13,681,907
Saskatchewan .....	1,417,268	263,451	343,166	2,023,885
Alberta .....	8,121,741	2,994,118	989,982	12,105,841
British Columbia .....	10,504,916	7,349,742	3,955,041	21,809,699
Canada .....	160,504,085	80,519,862	80,822,656	321,846,603
Closing:				
Newfoundland .....	253,759	218,732	95,340	567,831
Prince Edward Island .....	22,188	—	4,950	27,138
Nova Scotia .....	2,747,643	1,477,112	1,424,050	5,648,805
New Brunswick .....	589,321	946,597	589,133	2,125,051
Québec .....	39,452,476	20,248,700	23,354,889	83,056,065
Ontario .....	75,414,848	43,717,620	50,142,451	169,274,919
Manitoba .....	8,799,858	3,400,557	1,315,141	13,515,556
Saskatchewan .....	1,744,948	326,902	421,779	2,493,629
Alberta .....	7,826,539	1,908,759	1,215,315	10,950,613
British Columbia .....	9,903,066	5,340,586	3,786,487	19,030,139
Canada .....	146,754,646	77,585,565	82,349,535	306,689,746

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

**TABLE 4. Employees and their Earnings: Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries) by Industries and Provinces, 1960**

	Employees					Earnings		
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total
	Male	Female	Male	Female				
	number					dollars		
(a) By industries								
Boiler and plate works .....	1,071	329	3,280	29	4,709	7,052,810	13,692,285	20,745,095
Fabricated structural metal industry .....	3,234	769	11,161	31	15,195	22,787,093	50,245,098	73,032,191
Ornamental and architectural metal industry .....	1,958	532	6,049	236	8,775	11,925,028	22,997,687	34,922,715
Metal stamping, pressing and coating industry .....	3,584	1,370	14,086	1,768	20,808	27,383,694	65,201,823	92,585,517
Wire and wire products manufacturers .....	2,077	866	8,106	856	11,905	16,014,133	37,910,286	53,924,419
Hardware, tool and cutlery manufacturers .....	1,395	694	5,684	1,021	8,794	11,424,263	25,217,402	36,641,665
Heating equipment manufacturers .....	1,224	438	3,679	80	5,421	8,218,925	14,409,799	22,628,724
Machine shops .....	1,738	437	5,813	128	8,116	9,229,648	22,708,952	31,938,600
Miscellaneous metal fabricating industries .....	2,905	1,023	9,716	1,138	14,782	20,110,801	42,208,654	62,319,455
Totals .....	19,186	6,458	67,574	5,287	98,505	134,146,395	294,591,986	428,738,381
(b) By provinces								
Newfoundland .....	19	11	143	2	175	116,698	460,120	576,818
Prince Edward Island .....	6	1	25	—	32	22,727	61,473	84,200
Nova Scotia .....	267	65	1,115	8	1,455	1,323,051	4,137,995	5,461,046
New Brunswick .....	151	47	705	52	955	815,800	2,395,374	3,211,174
Quebec .....	5,109	1,500	19,176	1,058	26,843	34,841,804	77,641,013	112,482,817
Ontario .....	10,459	4,052	37,090	3,894	55,495	77,467,537	169,407,509	246,875,046
Manitoba .....	836	194	2,450	33	3,513	5,067,109	9,800,338	14,867,447
Saskatchewan .....	197	42	509	2	750	1,007,522	1,852,123	2,859,645
Alberta .....	927	228	2,595	55	3,805	5,242,844	10,838,541	16,081,385
British Columbia .....	1,215	318	3,766	183	5,482	8,241,303	17,997,500	26,238,803
Canada .....	19,186	6,458	67,574	5,287	98,505	134,146,395	294,591,986	428,738,381

**TABLE 5. Wage-earners Employed: Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries) by Months, 1960**

Month	Establishments reporting monthly detail <sup>1</sup>		Establishments reporting quarterly detail <sup>2</sup>	
	Male	Female	Male	Female
January .....	58,484	4,658		
February .....	57,732	4,741		
March .....	57,947	4,798	3,582	274
April .....	58,826	4,699		
May .....	60,304	4,714		
June .....	61,107	4,731	3,950	274
July .....	60,388	4,531		
August .....	61,179	4,636		
September .....	59,095	4,682	3,923	307
October .....	58,052	4,690		
November .....	57,594	4,560		
December .....	54,396	4,401	3,569	269
Average for establishments reporting monthly detail .....			58,784	4,673
Average for establishments reporting quarterly detail .....			3,756	281
Average estimated for small establishments <sup>3</sup> .....			5,034	333
Average for all establishments .....			67,574	5,287

<sup>1</sup> The number of production workers, by months, was collected only for large establishments.<sup>2</sup> The number of production workers, by quarters, was collected only for medium-size establishments.<sup>3</sup> Small establishments were not asked to report details of employment.

Note: For data by industries for 1960 refer to separate industry reports.



TABLE 6. Alphabetical List of Materials Used: Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries), 1960

Material		Quantity	Cost at works
			\$
Aluminum:			
Castings .....	lb.	1,970,698	1,133,644
Sheet .....	"	24,957,805	9,757,521
Other forms .....	"	26,702,840	9,961,764
Extrusions .....	"	22,455,755	11,610,128
Ammonium chloride .....			
Babbitt metal and solders .....	"	312,992	31,852
Brass and bronze .....	"	2,226,368	631,893
Coke .....	ton	60,921,355	22,379,669
		17,557	597,025
Copper:			
Sheet .....	lb.	2,012,075	1,139,057
Other forms .....	"	2,659,481	1,318,285
Wire .....	"	604,771	267,170
Core oil .....			
Cork discs .....	Imp. gal.	48,542	62,882
Cupola blocks and firebrick .....	"	"	1,341,844
Ferro-alloys .....	"	"	211,241
		"	210,835
Fireclay .....			
Foundry sands .....	ton	3,619	85,662
Frit for enamelling .....	"	42,193	404,852
Handles .....	lb.	3,100,771	590,699
		"	1,305,185
Iron:			
Gray and malleable castings .....	ton	12,223	4,088,707
Pig .....	"	23,728	1,448,315
Lead .....	lb.	5,170,993	591,539
Lumber .....			
Muriatic acid .....	M ft. b.m.	15,679	1,712,945
Nickel .....	lb.	3,306,452	107,885
Other non-ferrous metals .....	"	581,214	604,150
		"	1,134,822
Paints, oils and varnishes .....			
Pipe and fittings, iron and steel .....	"	"	5,567,055
Plates, steel .....	"	"	9,536,893
Plumbago and graphite .....	ton	206,665	32,589,708
	lb.	534,271	33,417
Scrap, iron and steel:			
Purchased .....	ton	57,524	2,275,455
Own make .....	"	208	5,444
Steel (except alloy):			
Castings, rough and semi-finished .....	"	5,179	2,405,840
Bars .....	"	291,071	41,361,076
Sheets:			
Black .....	"	236,997	37,337,574
Galvanized .....	"	164,260	30,622,258
Tinplate .....	"	250,888	47,965,761
Steel, stainless:			
Wire .....	lb.	1,228,507	1,080,301
Billets, bars and rods .....	"	"	1,159,798
Sheets .....	"	"	4,598,698
Other .....	"	"	7,289,610
Other alloy steel:			
Billets, bars and rods .....	"	"	5,548,398
Other .....	"	"	2,423,585
Other iron and steel n.e.s. ....	"	"	14,101,144
Sulphuric acid, 100% .....			
Strip, steel .....	lb.	19,586,605	299,688
Structural shapes, steel .....	ton	46,684	8,400,612
Tin .....	"	400,855	60,556,391
	lb.	378,581	405,402
Wire rods, steel .....			
Wire, steel:	ton	321,198	42,079,459
Plain .....	"	108,258	24,005,039
Galvanized .....	"	24,977	5,784,337
Zinc .....			
Shipping containers .....	lb.	23,857,506	3,577,446
All other materials .....	"	"	10,972,891
	"	"	187,988,248
Total .....		"	662,679,077

**TABLE 7. Principal Statistics: Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries) classified according to Size of Establishment, 1960**

Size group	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Value of factory shipments
	number		dollars			
(a) Factory shipments						
Under \$10,000 .....	241	380	675,537	71,080	483,074	1,499,795
\$ 10,000 to \$ 24,999 .....	381	1,122	3,151,338	213,281	2,111,583	6,584,060
25,000 " 49,999 .....	456	2,310	7,123,170	397,891	5,509,318	16,707,278
50,000 " 99,999 .....	431	3,648	12,856,380	656,111	10,349,267	30,629,321
100,000 " 199,999 .....	430	6,321	24,164,173	1,193,518	22,513,871	61,084,738
200,000 " 499,999 .....	449	12,295	49,459,386	2,255,893	60,714,214	144,176,854
500,000 " 999,999 .....	200	10,571	43,352,003	1,938,438	66,086,685	141,035,818
1,000,000 " 4,999,999 .....	255	34,885	150,740,839	7,175,875	262,139,588	549,693,705
5,000,000 and over .....	53	26,627	134,467,545	5,212,078	232,771,477	481,493,234
Head offices .....	—	346	2,748,010	—	—	—
Totals .....	2,896	98,505	428,738,381	19,114,165	662,679,077	1,432,904,803
(b) Employees						
Under 5 employees .....	848	2,069	6,248,751	448,132	7,718,032	19,668,347
5 to 14 .....	938	8,070	29,471,794	1,538,626	36,370,212	87,835,150
15 " 49 .....	711	18,961	76,257,520	3,594,425	117,456,853	254,656,689
50 " 99 .....	198	13,873	57,473,152	2,562,025	101,998,690	208,417,064
100 " 199 .....	102	14,265	61,985,529	3,277,466	105,682,787	223,297,097
200 " 499 .....	77	23,965	110,047,553	4,957,298	185,842,284	398,363,996
500 and over .....	22	16,956	84,506,072	2,736,193	107,610,219	240,666,460
Head offices .....	—	346	2,748,010	—	—	—
Totals .....	2,896	98,505	428,738,381	19,114,165	662,679,077	1,432,904,803

**TABLE 8. Fuel and Electricity Used: Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries), 1960**

Kind	Quantity	Cost at plant
		\$
<b>1. Establishments reporting commodity detail:</b>		
Bituminous coal (a) From Canadian mines .....	ton 26,328	331,348
(b) Imported .....	" 66,306	815,872
Anthracite coal .....	" 6,476	94,420
Lignite coal .....	" 2,250	13,552
Coke .....	" 3,886	21,271
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal. 5,308,386	2,057,976
Fuel oil including kerosene or coal oil .....	" 26,841,139	3,276,026
Wood .....	cord 1,036	8,501
Gas (a) Liquefied petroleum gases .....	Imp. gal. 1,485,182	255,631
(b) Other manufactured gas .....	M cu. ft. 143,426	69,111
(c) Natural gas .....	" 3,785,057	2,808,744
Other fuel .....	...	101,373
Electricity purchased .....	kwh. 554,728,451	6,875,290
Steam purchased .....	...	249,571
<b>2. Establishments reporting group detail:</b>		
Cost of fuel .....	...	447,780
Cost of electricity .....	...	366,807
<b>3. Estimate for establishments for which no data were collected:</b>		
Cost of fuel and electricity .....	...	1,820,892
<b>4. All establishments:</b>		
Total cost of fuel and electricity .....	...	19,114,165

Note: For data by industries for 1960 refer to separate industry reports.



**TABLE 9. New Investment in Durable Physical Assets and Repair and Maintenance: Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries), 1960**

Industry	New investment			Repair and maintenance			Total
	Con- struction	Machinery and equipment	Sub-total	Con- struction	Machinery and equipment	Sub-total	
	thousands of dollars						
Boiler and plate works .....	533	860	1,393	200	888	1,088	2,481
Fabricated structural metal industry .....	1,102	4,160	5,262	642	3,647	4,289	9,551
Ornamental and architectural metal industry .....	1,412	2,136	3,548	740	1,933	2,673	6,221
Metal stamping,pressing and coating industry .....	2,570	9,079	11,649	994	4,612	5,606	17,255
Wire and wire products manufacturers .....	2,353	7,015	9,368	1,231	6,682	7,913	17,281
Hardware, tool and cutlery manufacturers .....	1,049	3,442	4,491	312	1,635	1,947	6,438
Heating equipment manufacturers .....	834	1,482	2,316	260	1,330	1,590	3,906
Machine shops .....	756	1,898	2,654	309	772	1,081	3,735
Miscellaneous metal fabricating industries.....	1,695	4,408	6,103	647	3,989	4,636	10,739
Totals .....	12,304	34,480	46,784	5,335	25,488	30,823	77,607

Note: Data for 1960 shown above are final and may differ slightly from the preliminary figures shown in the separate industry bulletins.

**TABLE 10. Factory Shipments of Products Related to the Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries), 1960 (from All Industries)**

Commodity	Total value of factory shipments <sup>1</sup>	Catalogue No. (Annual)	Table No.
	\$		
Heating and power boilers .....	33,807,000	41-223	5
Metal windows .....	36,801,000	41-221	5
Pre-fabricated and portable metal buildings .....	13,766,000	41-221	6
Metal doors .....	19,834,000	41-221	7
Metal cans .....	108,520,000	41-227	5
Steel barrels and drums .....	5,218,000	41-227	6
Domestic range boilers .....	2,790,000	41-227	7
Metal lath and corner bead .....	3,963,000	41-227	8
Metal bottle caps .....	15,924,000	41-227	9
Sheet metal culvert pipe .....	17,314,000	41-227	10
Roof drainage equipment .....	3,162,000	41-227	11
Enamelled, aluminum and stainless steel kitchenware .....	8,172,000	41-227	12
Galvanized sheets .....	46,710,000	41-227	13
Stove and furnace pipe .....	5,179,000	41-227	14
Aluminum and steel roofing and siding .....	15,057,000	41-227	15
Steel wire .....	40,478,000	41-216	5
Steel wire fencing:			
Farm .....	2,768,000	41-216	6
Lawn .....	415,000	41-216	6
Chainlink .....	1,889,000	41-216	6
Nails, tacks and staples:			
Staples .....	299,000	41-216	7
Nails and spikes .....	12,912,000	41-216	7
Tacks .....	690,000	41-216	7
Steel wire, rope and cable:			
Rope and cable .....	16,853,000	41-216	8
Twisted strand wire .....	3,428,000	41-216	8

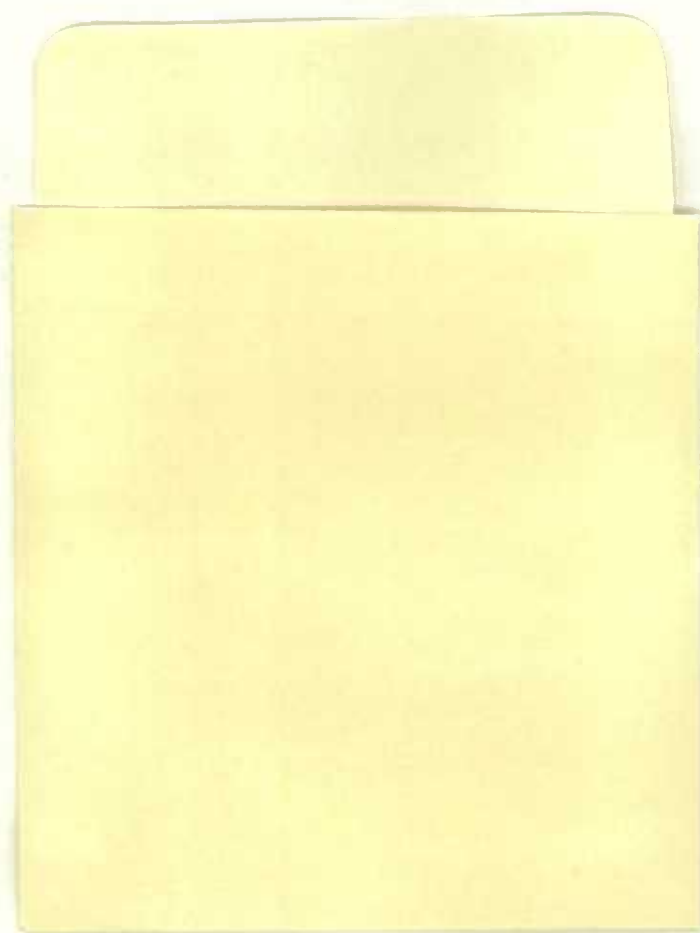
<sup>1</sup> For a detailed breakdown of factory shipments refer to the industry report indicated in the adjoining column.

**TABLE 10. Factory Shipments of Products Related to the Metal Fabricating Industries (Except Machinery and Transportation Equipment Industries), 1960 (from All Industries) - Concluded**

Commodity	Total value of factory shipments <sup>1</sup>	Catalogue No. (Annual)	Table No.
	\$		
Steel bale ties and welded wire mesh:			
Bale ties .....	630,000	41-216	9
Wire mesh .....	8,126,000	41-216	9
Welding rods .....	7,342,000	41-216	10
Hardware .....	49,678,000	41-208	5
Wood cutting saws .....	16,398,000	41-208	6
Axes and hatchets .....	780,000	41-208	7
Spades and shovels .....	2,072,000	41-208	8
Forks, rakes, hoes and peavies:			
Forks .....	293,000	41-208	9
Rakes .....	473,000	41-208	9
Hoes .....	312,000	41-208	9
Peavies .....	309,000	41-208	9
Small tools .....	29,162,000	41-208	10
Miscellaneous steel cutlery .....	2,249,000	41-208	11
Power type oil burners .....	6,739,000	41-225	5
Furnace Blowers .....	1,923,000	41-225	6
Mechanical stokers and parts .....	2,536,000	41-225	7
Unit heaters .....	5,829,000	41-225	8
Air registers and grills .....	2,931,000	41-225	9
Heating radiators .....	11,487,000	41-225	10
Warm air furnaces .....	29,813,000	41-225	11
Plumbers brass fittings .....	13,678,000	41-228	5
Hand type fire extinguishers .....	2,876,000	41-228	6
Hydrants .....	1,913,000	41-228	7
Valves .....	24,490,000	41-228	8

<sup>1</sup> For a detailed breakdown of factory shipments refer to the Industry report indicated in the adjoining column.





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