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## MANUFACTURERS OF ELECTRICAL INDUSTRIAL EQUIPMENT <br> 1965

ANNUAL CENSUS<br>OF MANUFACTURES

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## DOMINION BUREAU OF STATISTICS

Manufacturing and Primary Industries Division

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$$
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$$

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# MANUFACTURERS OF ELECTRICAL INDUSTRIAL EQUIPMENT 

## 1965

For statistical purposes the industry titled Manufacturers of Electrical Industrial Equipment covers the operations of establishments primarily engaged in manufacturing electric motors, generators and other electric power equipment for use in the generation, transmission and utilization of electric energy. Important products of this industry are steam turbine generator sets, motors (except railway, motor vehicle and aircraft), "enerators, transformers, switchgear, pole-line hardware, lightning arresters, electric and ing equipment, electic meters. Establishments primarily engaged in manufacturing siectric wire and cable are in Industry No. 338 -Manufacturers of Electric Wire and Cable.

A review of the Principal Statistics for this industry indicates that during 1965 ihe value of shipments increased 16 per cent, the value of production increased 15 per cent, and value added increased 8 per cent. During the same period the ratio of cost of materials used to value of production was 41 per cent whereas in 1964 it was 37 per cent.

The total value of industrial electrical equipment produced during 1965 represented 84 per cent of the total value of production reported by firms classified to this industry. Some of the other items reported were telecommunications equipment, welding apparatus, railway maintenance equipment, pumps, fixtures, jigs and toolage, tobacco tying machines and metal stampings.

## SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:
.. figures not available.
... figures not appropriate or not applicable.

- nil or zero.
- amount too small to be expressed.
p preliminary figures.
r revised figures.
$x$ confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-63


TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1963

| Size groud | Estab-jishments | Manufacturing activity |  |  |  |  |  |  | Total activity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Production and related workers |  |  | Cost of fuel and elec= tricity | Cost of materials and supplies | Value of shipments of coods of own manufacture | Value added | Working owners and partners |  | Employees |  | Valuw <br> added |
|  |  | Number | Manhours paid | Wages |  |  |  |  | Number | Withdrawals | Number | $\begin{gathered} \text { Salaries } \\ \text { and } \\ \text { wages } \end{gathered}$ |  |
|  | No. |  | '000 |  |  | \$ ${ }^{\prime} 000$ |  |  |  | \$'000 |  | \$'0 |  |
| Under $\$ 10,000$ | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \$ 10,000 to \$ 24,999 .......... | 4 | 6 | 13 | 19 | 3 | 56 | 123 | 76 | - | - | 14 | 53. | 76 |
| $\begin{array}{rrr}25,000 & 49,999 & \text { anc...... } \\ 50,000\end{array}$ | 8 | $\begin{array}{r}27 \\ 140 \\ \hline\end{array}$ | 54 $>86$ | 96 540 | 7 36 | 325 $\mathrm{r}, 291$ | 598 2.607 | 1.378 1.346 | $\frac{1}{2}$ | 5 16 | 45 204 | 175 900 | $\begin{array}{r} 304 \\ 1.454 \end{array}$ |
| 100,000 * 199,999 .......... | 18 | 140 378 | 286 781 | 1. 402 | 36 113 | 1. 291 4.288 | 8.607 | 1.346 4.326 | 2 | 16 | 618 | 2.890 | 5, 218 |
|  | 25 14 | 378 504 | .781 1.075 | 1.402 1.964 | 105 | 4. 2881 | 8.646 9.754 | +4,326 | - | - | 721 +7 | 2.851 3.222 | 5. 278 |
| 1,000,000 . $4,999,999$............. | 36 | 3,267 | 7.058 | 13.250 | 551 | 38.574 | 78,687 | 41,648 | - | - | 4.830 | 22.571 | 44,857 |
| 5,000,000 and over .................. | 14 | 8.637 | 18.999 | 46,998 | 2,042 | 73,476 | 228,040 | 151,519 | - | - | 13,706 | 80,094 | 152,934 |
| Head offices, sales offices and auxiliary units $\qquad$ |  | - | $\because \cdot$ | . $\cdot$ | -. | - | -. |  | $\cdots$ | -•• | 309 | 2,061 | 416 |
| Totals | 119 | 12,959 | 28, 26.5 | 64,270 | 2,857 | 1122,292 | 328, 455 | 204,314 | 3 | 21 | 20,447 | 111,967 | 210,338 |
| 1965 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under $\$ 10.000$ | - | - | - | - | - | $\rightarrow$ | - | - | - | - | - | - | - |
| \$ 10,000 to \$ 24,999 ........... | 4 | 12 | 24 | 39 | 3 | 59 | 147 | 93 | - | - | 19 | 80 | 134 |
| $\begin{array}{ll}25,000^{\circ} & 49,999 \\ 50,000 . . . . . . .\end{array}$ | 9 | 27 | 55 | 97 | 10 | 378 | 647 | 293 | 3 | 21 | 43 | 168 | 316 |
| 100,000 $\quad 1989,999$.............. | 14 | 82 | 164 | 298 | 29 | 1.174 | 2,065 | 963 | 2 | 7 | 133 | 591 | 1,063 |
| 200,000 $\quad 499,999$............... | 29 | 452 | 936 | 1,805 | 97 | 4,887 | 9,938 | 5,188 | - | - | 651 | 2.988 | 5. 241 |
| 500,000 $\quad 999,999$............. | 21 | 770 | 1.591 | 2,778 | 141 | 8,704 | 16.220 | 7,988 | - | - | 1, 162 | 5,055 | 8. 633 |
| 1,000,000 ${ }^{\text {\% }}$ 4,999,999 ........... | 31 | 2,970 | 6,285 | 12,366 | 450 | 37,878 | 71,922 | 36.725 | - | - | + 4.225 | 19, 856 | 38,810 |
| 5,000,000 and over ................... | 16 | 9,682 | 21,074 | 53,648 | 2,215 | 102,808 | 274.513 | 169,307 | - | - | 15,207 | 90, 243 | 170.433 |
| Head offices, sales offices and auxiliary units $\qquad$ |  |  |  |  |  |  |  |  |  |  | 299 | 2.155 | 10 |
| Totals | 124 | 13.999 | 30, 128 | $71,03 ?$ | 2.946 | 155. 88.4 | 3\%-4. 1 | $\because 20,-39$ | 5 | 28 | 21. 739 | 1\%1.1:7 |  |

TABLE 3. Principal Statistics classified by size firoup based on Manufacturing Value Added, 1964 and $196 i$

| Size group | Estab Jishments | Manufacturing activity |  |  |  |  |  |  | Total activity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Production and related workers |  |  | Cost of fuel and electricity | Cost of materials and supplies | Value of shipments of goods of own manufacture | Value added | Working owners and partners |  | Employees |  | Value added |
|  |  | Number | Manhours paid | Wages |  |  |  |  | Number | Withdrawals | Number | Salaries and wages |  |
|  | Na. |  | ${ }^{\prime} 000$ |  |  | \$'000 |  |  |  | \$'000 |  | \$ ${ }^{\circ}$ |  |
| Under $\$ 10,000$............................. | - 6 | $\overline{11}$ | $\overline{23}$ | $\overline{37}$ | $-4$ | 147 | $25 \overline{6}$ | 121 | 1 | - 5 | 20 | 76 | $1 \overline{21}$ |
| \$ 10,000 to \$ 24,999 .......... | 13 | $\begin{array}{r}11 \\ 50 \\ \hline\end{array}$ | 100 | 182 | 14 | $\begin{array}{r}147 \\ \hline 966\end{array}$ | 1,479 | 121 $-\quad 117$ | - | $-1$. | 86 .96 | 353 <br> 944 | 600 1.258 |
| 50,000. 99,999 ............. | 14 | 130 | 279 359 | 563 681 | 52 39 | 1.806 2,174 | 3,068 | 1, 117 | 2 | 16 | 199 267 | 944 1.255 | 1,228 1,992 |
| 100,000 \% $\quad 199.999$.......... | 14 | 172 827 | 359 1.729 | 681 3,043 | 39 161 | 2,174 7,587 | 4,176 16,183 | 1,991 8,022 | - | - | J. 198 | 1,255 5,283 | 1,991 9,111 |
| $\begin{array}{llll}200,000 & 499,999 & \ldots . . . . . . . . .\end{array}$ | 24 14 | 827 732 | 1,729 1,556 | 3, 2,743 | 161 126 | 8, 5878 8,738 | 17,935 | 9,815 | $\cdots$ | - | 1. 141 | 4,91 I | 10,592 |
| 1,000,000* 4,999,999 ........... | 28 | 4,569 | 9,904 | 20,365 | $\begin{array}{r}916 \\ \hline 154\end{array}$ | 49.861 | 112,882 | 63, 201 | - | - | 7.339 | 37,648 | 66.887 |
| 5,000,000 and over .................... | 6 | 6,468 | 14,315 | 36,659 | 1.545 | 51.014 | 172.475 | 119,506 | - | - | 9.898 | 59,435 | 119,593 |
| Head offices, sales offices and auxiliary units $\qquad$ |  |  |  |  |  | $\ldots$ |  |  |  |  | 309 | 2,061 | 416 |
| Totals | 119 | 12,959 | 28, 265 | 64,270 | 2,857 | 122,292 | 328,455 | 204,314 | 3 | 21 | 20,447 | 111,967 | 210,538 |
| Under \$ 10,000 .... | - | - | - | - | - | - | - | - | - | - | - | - | $\overline{5}$ |
| \$ 10,000 to \$ 24,999 ........... | 3 | 7 | 14 | 22 | 3 | 63 | 121 | 54 | - | $-$ | 13 | 58 | 95 399 |
| 25,000 \% 49,999 ........... | 11 | 35 | 71 | 125 | 11 | - 440 | - 775 | 368 1 | 3 | 21 | 55 203 | 215 | 392 1.411 |
| 50,000 * 99,999 ........... | 18 | 121 | 246 | 471 | 41 | 2,004 | 3,312 | 1,356 | 2 | 7 | 203 | 1924 | 1,411 2,548 |
| 100,000 ${ }^{\text {\% }}$ 199,999 .......... | 16 | 175 | $\begin{array}{r}359 \\ \hline 853\end{array}$ | -672 | 45 159 | 4.035 | 6. 226 | 2,457 | - | - | $\begin{array}{r}265 \\ \hline 223\end{array}$ | 1,237 5,227 | 2,548 |
| 200,000 " 499,999 ............ | 27 | 895 | 1,853 | 3,262 | 159 | 9.323 | 17.763 | 8,654 | - | $\cdots$ | 1. 223 | 5, 227 | 8,877 |
| 500,000 " 999,999 ........... | 15 | 928 | 1,951 | 3. 544 | 143 | 10, 134 | 19,918 | 9,746 | - | - | 1.415 | 6.192 | 11,558 |
| 1,000,000 ${ }^{\text {\% 4,999,999 ........... }}$ | 27 | \$.370 | 9,158 | 19,796 | 836 | 52, 888 | 113.064 | 64,330 133,593 | - | - | 6,870 11.396 | 35,960 69,167 | 65, 717 |
| 5,000,000 and over .................... | 7 | 7,464 | 16.477 | 43, 140 | 1,707 | 77,000 | 214.272 | 133,593 | - | - | 11.396 | 69.167 | 134, 3 |
| Head offices, sales offices and auxiliapy units $\qquad$ |  |  |  |  |  |  |  |  |  |  | 299 | 2, 355 | ? |
| Totals | 124 | 13,995 | 30, 128 | 71,032 | 2,946 | 155,888 | 375,451 | 220,559 | 5 | 28 | 21,739 | 121,137 | 224, 61 if |

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

| Slze group | Estab lish ments | Manulacturing activity |  |  |  |  |  |  | Total activity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Production and related workers |  |  | Cost of fuel and elec= trlcity | Cost of materials and supplies | Value of shipments of goods of own manu facture | Value added | Working owners and partners |  | Employees |  | Value added |
|  |  | Number | Manhours paid | Wages |  |  |  |  | Number | Withdrawals | Number | Salarles and Wages |  |
|  | No. |  | ${ }^{1} 000$ |  |  | \$'000 |  |  |  | \$ ${ }^{3} 000$ |  | \$* |  |
| Under $\$ 10,000$ | - | - | - | $\vec{\square}$ | - | - | - | $\bar{\square}$ | - | - | - | - | - |
| \$ 10,000 to \$ 24,999 ........a.e. | 6 | 11 | 23 | 37 | 4 | 147 819 | 256 195 | 121 | 1 | 5 | 20 | 76 | 121 |
| $25,000^{\prime \prime}$ 50.000 | 11 | 41 | 84 | 151 | 11 | 819 +849 | 1.252 -7.979 | 1.061 | $-2$ | $\overline{16}$ | 184 | 867 | 1867 $+\quad 137$ |
| $\begin{array}{rrr}50,000 & & 99,999 \\ 100,000 & \text {........... }\end{array}$ | 14 | 118 | 404 | 494 781 | 57 | 2.849 | 4.491 | 2,141 | 2 | 10 | 300 | 1,435 | 2,216 |
| 200,000 * 499,999 | 19 | 611 | 1. 262 | 2. 125 | 111 | 5,535 | 11.687 | 6.018 | - | - | 810 | 3. 319 | 6,246 |
| 500.000 * 999,999.. | 16 | 783 | 1,676 | 2.964 | 131 | 8.311 | 17,390 | 8,938 | - | - | 1,196 | 5,200 | 10,067 |
| 1,000,000 ${ }^{\text {-4 }} 4,999,999$........... | 31 | 4,734 | 10. 251 | 21.059 | 962 | 52,340 | 117,923 | 66,082 | - | - | 7,672 | 39,323 | 70, 276 |
| 5,000,000 and over .................o... | 6 | 6. 468 | 14.315 | 36.659 | 1. 545 | 51.014 | 172,475 | 119,506 | -- | - | 9,888 | 59,435 | 119,593 |
| Head offices, sales offlces and auxillary units $\qquad$ |  |  |  |  |  |  |  |  |  |  | 309 | 2.061 | 416 |
| Totals | 119 | 12,958 | 28,265 | 64, 270 | 2.857 | 122.292 | 328,435 | 204.314 | 3 | 21 | 20, 447 | 111.967 | 210,538 |
| Under \$10,000 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| \$ 10,000 to \$ 24.999 .......cos. | 12 | 33 | 67 | 120 | 10 | 4.41 | 782 | 373 | 3 | 21 | 51 | 199 | 374 |
| 50,000 * 99.999 | 18 | 118 | 237 | 441 | 40 | 1,850 | 3, 014 | 1. 232 | 2 | 7 | 185 | 766 | 1,317 |
| 100.000 \% 199.999 ............ | 18 | 187 | 386 | 730 | 50 | 4.250 | 6,639 | 2,632 | - | - | 300 | 1.469 | 2. 754 |
| 200,000 " 499,999 ........... | 26 | 799 | 1,640 | 2.971 | 153 | 8,898 | 16,854 | 8, 169 | - | - | 1, 110 | 4.811 | 8. 241 |
| 500,000 "4 999,999 ........... | 15 | 968 | 2,023 | 3,572 | 124 | 10, 212 | 19,672 | 9,617 | - | - | 1. 337 | 5,647 | 10,396 |
| 1,000,000 ${ }^{\text {¢ }}$ 4,999,999 ...teno... | 28 | 4. 426 | 9,299 | 20,060 | 862 | 53, 235 | 114.219 | 64,944 | - | - | 7.061 | 36, 922 | 67, 515 |
| 5,000,000 and over ..........nown..... | 7 | 7.464 | 16,477 | 43,140 | 1.708 | 77,001 | 214,272 | 133.593 | - | - | 11,396 | 69, 167 | 134,032 |
| Ite:a wffices, sales offices and anxiliary untts $\qquad$ |  | ... |  |  |  |  |  |  |  | ... | 299 | 2. 155 | 10 |
| 'lotals | 124 | 13,995 | 30, 128 | 71,032 | 2,946 | 153,888 | 375,451 | 220.559 | 5 | 28 | 21,739 | 121.137 | 224,640 |

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

| Slze group | Estab 1ish ments | Manufacturlng activlty |  |  |  |  |  |  | Total activity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ppoduction and related workers |  |  | Cost of fuel and electricity | Cost of materlals and supplies | Value of shipments of goods of own manufacture | Value sdded | Working owners and partners |  | Employees |  | Value added |
|  |  | Number | Man= hours paid | Wages |  |  |  |  | Number | With $=$ drawals | Number | Salaries and wages |  |
|  | No. |  | ${ }^{\prime} 000$ |  |  | \$'000 |  |  |  | \$'000 |  |  |  |
| Under 5 employed | 8 | 14 | 28 | 50 | 4 | 298 | 537 | 270 | 1 | 5 | 24 | 101 | 270 |
| 5-14 employed ....................... | 27 28 | 140 583 | 294 1.214 | 597 2.213 | 40 .49 | 2.497 | 4.568 14.981 | 2. 224 | 2 | 16 | 233 | 1,086 | 2. 311 |
|  | 21 | 1,015 | 2. 166 | 3, 903 | 178 | 9.709 | 21.666 | 12.276 | - | - | 1.432 1.432 | 6,431 | 13.339 |
| 100-199 \# .-.................... | 13 | 1. 172 | 2.517 | 4.999 | 220 | 18. 191 | 33.103 | 15.378 | - | - | 1.896 | 9,337 | 16.938 |
| 200-499 :4 ...................... | 14 | 2,892 | 6.233 | 12.514 | 590 | 27.689 | 66. 144 | 39,348 | - | - | 4,343 | 21.331 | 41,995 |
| 500 employed and ovet .............. Head offices, sales offices and | 8 | 7. 143 | 15,812 | 39,995 | 1,676 | 56.531 | 187. 455 | 127.536 | - | - | t1.342 | 67.788 | 127,625 |
| auxiliary units ....w................... |  |  | ... | . . |  | *. |  |  | $\cdots$ | ". | 309 | 2,06 I | 416 |
| Totsls | 119 | 12,959 | 28, 365 | 64,270 | 2,85\% | 122,292 | 328, 455 | 2004, 314 | 3 | 21 | 20, 447 | 111.967 | 210,538 |
| Under 5 employed ....................... | 7 | 13 | 26 | 46 | 4 | 247 | 447 | 204 | - | - | 23 | 88 | 204 |
| 5-14 employed ...................... | 32 | 172 | . 352 | 694 | 60 | 3,965 | 6. 750 | 3.058 | 5 | 28 | 293 | 1.371 | 3,220 |
| $15=49$ | 28 | 581 | 1.215 | 2,363 | 121 | 7.725 | 14.575 | 7.079 | - | - | 802 | 3.753 | 7. 119 |
| $50-99$ | 23 | 1.158 | 2,396 | 4.342 | 211 | 15.379 | 29, 851 | 15,386 | - | - | 1.683 | 7.441 | 15,764 |
| (111)-199 | 10 | 880 | 1,892 | 4.064 | 164 | 15.643 | 27.976 | 13, 412 | - | - | 1.423 | 7.475 | 15,353 |
|  | 16 | 3.398 | 7, 104 | 14.847 | 612 | 33.891 | 77.932 | 45,204 | - | - | 5,026 | 24,869 | 46. 303 |
| (no) employed and over $\qquad$ it.ad offices, sales offlces and | 8 | 7.793 | 17,144 | 44.677 | 1.774 | 79.039 | 217,921 | 136,216 | - | - | 12. 190 | 73.984 | 136,667 |
| aluxiliary units |  |  |  |  | " ${ }^{\text {- }}$ |  |  |  |  |  | 299 | 2,155 | 10 |
| Totals ................................. | 124 | 13,995 | 30, 128 | 71.0.32 | 2,94\% | 155, 888 | 37.5.431 | 220.359 | 5 | 28 | 21, 739 | 121,137 | 224.690 |

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965


TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

|  | Manufacturing activity |  | Non-manufacturing activities |  | Total activity |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1964 | 1965 | 1964 | 1965 | 1964 | 1965 |
|  | \$ 000 |  |  |  |  |  |
| 1. Shipments and other revenue ................................................ | 328.455 | 375,451 | 33,524 | 35.015 | 361,979 | 410,466 |
| Add closing - Goods in process..................................... | 20.257 | 26,089 | ... | ... | 20, 257 | 26.089 |
| Finished goods | 26,672 | 23.354 | = . | -.. | 26.672 | 23.354 |
|  | 23, 813 | 19.412 | $\ldots$ | $\ldots$ | 23.813 | 19,412 |
|  | 22, 108 | 26,090 | $\cdots$ | -.. | 22, 108 | 26,090 |
| 2. Net inventory change ..............an............................................. | 1,008 | 3,941 | ... | -.. | 1,008 | 3,941 |
| 3. Gross out put ( $1+2$ ) ............................................................... | 329,463 | 379,392 | 33.524 | 35,015 | 362,987 | 414,407 |
| Input |  |  |  |  |  |  |
| 4. Purchases of goods not of own manufacture .......................... | . . | $\cdots$ | 25,625 | 28,978 | 25.635 | 28,978 |
| Inventorles-Goods not of own manufacture: |  |  |  |  |  |  |
| Add opening | ... | -.. | 2,775 | 2,063 | 2,775 | 2,063 |
| Deduct closing | ... | ... | 3.002 | 2,052 | 3,002 | 2,052 |
| 5. Cost of goods sold (not of own manufacture) ........................ | ... | ... | 25,398 | 28,989 | 25, 398 | 28.989 |
| 6. Materials, supplies, etc. .......................................................... | 122, 292 | 155, 888 | 1,901 | 1,944 | 124, 193 | 157. 436 |
| 7. Fuel and electrictity ........................................................... | 2.857 | 2.946 | ... | $\ldots$ | 2,857 | 2.946 |
| 8. Gross input ( $5+6+7$ ) | 125, 149 | 158.834 | 27,299 | 30.933 | 152, 448 | 189.767 |
| Value added (3-8). | 204, 314 | 220,559 | 6,224 | 4,082 | 210, 538 | 224,640 |

TABLE 8. Employment and Payroll, 1964 and 1965

| $\begin{aligned} & \text { Yeat } \\ & \text { and } \\ & \text { province } \end{aligned}$ | Employees |  |  |  |  |  |  |  |  |  | Salaries and wages |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Production and related workers |  |  |  | Adminis. trative and office |  | $\begin{gathered} \text { Sales } \\ \text { and } \\ \text { distribution } \end{gathered}$ |  | Total |  | Production and related workers |  | Admin-istralive and office | Sales and distributton | Total |
|  | Manufacturing |  | Other |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Manufacturing | Other |  |  |  |
|  | number ${ }^{\text {n }}$ \% 000 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1964 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Newfoundland | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Prince Edward Island ........... | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nova Scalla | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Brunswick | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Quebec ................................ | 903 | 331 | - | - | 349 | 101 | 107 | 28 | 1,359 | 460 | 5.288 | 1 | 2,301 | 1.076 | 8. 666 |
| Ontario | $9.205$ | 1,992 | 51 | 15 | 4,449 | 1. 281 | 741 | 179 | 14,446 | 3.457 | 56.872 | 274 | 36.357 | 6. 550 | 100.053 |
| Manitoba ............................. |  |  |  | - | 69 | 19 | 4 | 1 | 375 |  |  |  |  |  |  |
| Saskatchewan ....................... | $\} 302$ | 27 | - |  |  |  |  |  |  | 47 | 1. 169 | - | 435 | 39 | 1.643 |
| Alberta |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| British Columbia |  | 8 | - | - | 57 | 23 | 19 | 5 | 267 | 36 | 941 | - | 492 | 172 | 1. 605 |
| Yukon and Northwest Territortes |  | - | - | - | - | - | - | - |  |  |  |  |  |  |  |
| Totals | 10,601 | 2. 358 | 51 | 5 | 4.924 | 1,424 | 871 | 213 | 16. 447 | 4.000 | 64, 270 | 275 | 39,385 | 7.837 | 111,967 |
| 1965 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Newfoundland | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Prince Edward Island | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nova Scotia | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Brunswick | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Quebec | 1. 286 | 383 | - | - | 440 | 137 | 132 | 33 | 1.858 | 553 | 7. 154 | - | 3. 184 | 1.072 | 11.410 |
| Ontario | 9.525 | 2, 175 | - | - | 4, 445 | 1,303 | 835 | 195 | 14.805 | 3.673 | 61.313 | - | 37. 174 | 7. 345 | 105,832 |
| Manitoba |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Saskatchewan | 338 | 35 | - | - | 75 | 20 | 4 | 1 | 417 | 56 | 1.371 | - | 483 | 43 | 1.898 |
| Alberta |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| British Columbla ................. | 242 | 11 | - | - | 71 | 26 | 22 | 5 | 335 | 42 | 1.194 | - | 606 | 197 | 1.997 |
| Yukon and Northwest Terthtorles | - | - | - | - | - | - | - | - | - | -- | - | - | - | - | - |
| Totale | 11.391 | 2, 604 | - | - | 5,031 | 1. 486 | 993 | 234 | 17,415 | 4. 324 | 71.032 | - | 41,448 | 8, 657 | 121, 137 |

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

| Month | 1964 |  | 1965 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Male | Female | Male | Female |
|  | number |  |  |  |
| Establishments reporting monthly detall (large establishments only): |  |  |  |  |
| January | 9.901 | 2, 214 | 10.600 | 2.376 |
| February | 9.959 | 2, 220 | 10.612 | 2,401 |
| March | 10,066 | 2. 201 | 10,675 | 2,428 |
| April | 10, 165 | 2.204 | 10,862 | 2.512 |
| May | 10. 160 | 2. 123 | 11.071 | 2,524 |
| June | 10.342 | 2. 153 | 11,297 | 2,517 |
| July | 10,506 | 2. 207 | 11,225 | 2, 504 |
| August | 10.673 | 2. 299 | 11.395 | 2.477 |
| September | 10.733 | 2. 409 | 11, 173 | 2. 509 |
| October | 10,680 | 2,437 | 11,368 | 2. 576 |
| November | 10,771 | 2. 420 | 11,479 | 2.628 |
| December | 10, 813 | 2,349 | 11.663 | 2,589 |
| Averages | 10.405 | 2.271 | 11, 124 | 2,511 |
| Wrablishments reporting annual averages (small establishments only) | 196 | 87 | 267 | 93 |
| Avarage for all establishments | 10,601 | 2. 358 | 11.391 | 2. 604 |

TABLE 10. Inventories, 1965

| Province | Manufacturing |  |  |  | Nonmanufacturing <br> Products or materials purchased for resale | $\begin{gathered} \text { Tutal } \\ \text { inventories } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Materials. supplies, etc. | Goods in process | Finished goods of own manufacture | Total |  |  |
|  |  |  | Dook val | 000 |  |  |
| Opening: |  |  |  |  |  |  |
| Newfoundl and | - | - | - | - | - | - |
| Prince Edward Island | - | - | - | - | - | - |
| Nova Scotia | - | - | - | - | - | - |
| New Brunswick | - | - | - | - | - | - |
| Quebec | 3. 347 | 2.213 | 1. 240 | 6. 801 | 301 | 7. 101 |
| Ontario | 23.071 | 16.586 | 24.261 | 63.919 | 1,670 | 65,589 |
| Manitoba |  |  |  |  |  |  |
| Saskatchewan | 963 | 186 | 380 | 1,529 | 34 | 1.563 |
| Alberta |  |  |  |  |  |  |
| British Columbia | 673 | 427 | 208 | 1,308 | 59 | 1,367 |
| Yukon and Northwest Territories | - | - | - | - | - | - |
| Totals | 28.055 | 19.412 | 26,090 | 73,55\% | 2.063 | 75, 620 |
| Closing: |  |  |  |  |  |  |
| Newfoundland | - | - | - | - | - | - |
| Prince Edward Island | - | - | - | - | - | - |
| Nova Scotia | - | - | - | - | - | - |
| New Brunswick | - | - | - | - | - | - |
| Quebec | 4,237 | 3.201 | 1,509 | 8. 946 | 599 | 9. 545 |
| Ontario | 28,283 | 20,898 | 21.234 | 70.415 | 1. 421 | 71.836 |
| Manitoba |  |  |  |  |  |  |
| Saskatchewan | 1,259 | 711 | 351 | 2. 322 | 32 | 2,354 |
| Alberta |  |  |  |  |  |  |
| British Columbia | 440 | 1. 280 | 261 | 1,981 | - | 1.98: |
| Yukon and Northwest Territories | - | - | - | - | - | - |
| Totals | 34, 220 | 26,089 | 23,354 | 83,664 | 2.052 | 85. $71 / 1$ |

TABLE 11, Purchased Fuel and Electricity Used, 1964 and 1965

| Description |  | 1964 |  | 1965 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Quantity | Cost | Quantity | Cost |  |
|  |  |  | \$*000 |  | \$'000 |  |
| 1. Large establishments reporting commodity detall: |  |  |  |  |  |  |
| Bituminous coal: |  |  |  |  |  |  |
| (a) From Canadian mines | ton | - | - | - |  | - |
| (b) Imparted | " | 31,897 | 350 | 29.756 |  | 316 |
| Subrbituminous coal (from Alberta mines only) | " | - | - | - |  | - |
| Anthracite coal | ' ${ }^{\prime}$ | 55 | 1 | - |  | - |
| Lignite coal | ' | - | - | - |  | - |
| Coke | " | - | - | - |  | - |
| Gasoline (including gasoline used in cars and trucks) | Imp.gal. | 249.952 | 102 | 279, 149 |  | 112 |
| Fuel oil including kerosene or coal ofl | " | 4,663,085 | 466 | 4,661,642 |  | 459 |
| Wood | cord | - | - | - |  | - |
| Gas: |  |  |  |  |  |  |
| (a) Liquefied petroleum gases | Imp. gal. | 93,939 | 23 | 110.218 |  | 29 |
| (b) Other manufactured gas | M cu.ft. | - | - | - |  | - |
| (c) Natural gas .............. | " | 265. 515 | 236 | 283. 290 |  | 261 |
| Other fuel |  | ... | 6 | ... |  | 1 |
| Electricity purchased | swh. | 183,951, 961 | 1,565 | 210,216,138 |  | 1,625 |
| Steam purchased |  | ... | 31 | -•• |  | 31 |
| 2. Small establishments not reporting commodity detail: |  |  |  |  |  |  |
| 3. All establishments: |  |  |  |  |  |  |
| Total fuel and electricity used |  | $\ldots$ | 2,857 | ... |  | 2.9417 |



| Daxcribitas | 1964 |  | 1965 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantlity | Cost |
|  |  | \$ 000 |  | \$ 000 |
| S. Whierials used: |  |  |  |  |
| Alamenm: |  |  |  |  |
|  | 1.387.989 | 1. 150 | 2,768,994 | 1.634 |
| Brt rods .............................................................................................................$^{\text {. }}$ | 96,024 | 67 | 100, 532 | 74 |
| 2atest and strip ................................................................................................ ${ }^{\text {a }}$ | 1,013,423 | 503 | 1,091,196 | 552 |
| Betar | ... | 1,150 | ... | 909 |
| Stas and Bronze: |  |  |  |  |
|  | 1.565.583 | 1. 304 | 1,755, 655 | 1,470 |
| the e rods ............................................................................................................$^{\text {. }}$ | 291,765 | 162 | 413,122 | 259 |
| \$160ts and strlp ................................................................................................ ${ }^{\text {a }}$ | 574,024 | 371 | 562,493 | 367 |
| Tumer | ... | 318 | ... | 306 |
| Copur: |  |  |  |  |
| ifte rods ........................................................................................................... 1 l . | 2,776,593 | 1.489 | 4.460,951 | 2,821 |
| Simt and strip .............................................................................................. ${ }^{\text {en }}$ | 2,367,991 | 1,460 | 3,119,690 | 2, 012 |
| luang and plpe .................................................................................................. ${ }^{\text {en }}$ | 358, 678 | 246 | 356, 404 | 253 |
|  | 10.965, 937 | 7.613 | 15,160, 147 | 10,810 |
| il.a. other Insulated | -.. | 5.440 | ... | 5,986 |
| Dtaut................................................................................................................. | . $\cdot$. | 1.844 | . $\cdot$ | 3, 832 |
| L.as iating varnishes, japans, enamels and lacquers................................................ | -•' | 407 | $\cdots$ | 487 |
| 4:Suiators, porcelain and glass ................................................................................ | $\ldots$ | 2.966 | . $\cdot$ | 3. 326 |
| foun and steel (except alloy): |  |  |  |  |
| Conaings: |  |  |  |  |
| 1ron............................................................................................................... $\operatorname{ton}$ | 7.802 | 3,193 | 8.474 | 4,148 |
| Steel .............................................................................................................. ${ }^{\text {e. }}$ | 8.586 | 1,906 | 9.172 | 2. 199 |
| :1end bars and rods............................................................................................. ** | 19,525 | 3,205 | 27.492 | 5,033 |
|  |  |  |  |  |
| Paun............................................................................................................$^{\text {. }}$ | 38, 168 | 6,245 | 34,335 | 6, 008 |
| Eialvanized........................................................................................................ .. | 1.361 | 295 | 1,310 | 230 |
| Ster wire............................................................................................................ . | 1.772 | 279 | 2,753 | 486 |
| Stinctural steel ....................................................................................................$^{\text {e. }}$ | 4.075 | 716 | 4,312 | 833 |
| Dilur (except alloy) | - | 988 | -.. | 1,270 |
| 2.150 stcel: |  |  |  |  |
| 3xiniess ........................................................................................................... | ... | 665 | . | 828 |
| 21H: n sheets and strips..................................................................................... ton | 27.841 | 11,844 | 31.476 | 13, 153 |
|  | ... | 467 | ... | 1.380 |
|  | 516.104 | 75 | 498. 516 | 135 |
| *ich - ................................................................................................................................... | 459.945 | 689 | 379.468 | 650 |
| 2000: , electric: |  |  |  |  |
|  | 20,092 | 223 | 21.202 | 259 |
| i h.f. and over A.C. or D.C............................................................................... ${ }^{\text {a }}$ | 2,058 | 64 | 2,401 | 285 |
| Pwhts, stains, lacquers .................................................................................... | " | 496 | - | 648 |
| Sesins, synthetic .................................................................................................. | $\cdots \cdot$ | 667 | ... | 910 |
| Resistance wire, ribbon and strip .......................................................................... Ib. | 34,845 | 91 | 55, 622 | 133 |
| 3uphuric acld ........................................................................................................ ${ }^{\text {a }}$ | 431.536 | 15 | 1.382,847 | 44 |
| At sther materials and components used² ................................................................... | ... | 57. 131 | -. | 72,638 |
|  | - ${ }^{\text {c }}$ | 2.012 | . . | 1.847 |
|  | - $\cdot$ | 3,824 | - . | 6. 244 |
| 4. Ahodet ; id out to others for work done on materials owned by establishments ............. | - $\cdot$ | 713 | - ${ }^{\text {a }}$ | 1.449 |
| Tonls............................................................................................................... | $\cdots$ | 122,292 | -.* | 155, 888 |

[^0]TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 196.5

| Description | Value |  |
| :---: | :---: | :---: |
|  | 1964 | 1965 |
|  | *'000 |  |
| 1. Products: |  |  |
| Electrical industrial equipment: |  |  |
| Industrial contral equipment | 35. 769 | 44,094 |
| Converter equipment | 5, 013 | 8, 146 |
| Electric generators and parts | 16,067 | 15, 155 |
| Electric motors and parts | 57.094 | 62,328 |
| Transfomers and parts | 73,079 | 85,221 |
| Electrical switchgear and protective equipment (except telephone switchboards) ......................................... | 51.492 | 60,771 |
| Electric welding apparatus and welding rod ....................................................................................................................... | 9,335 | 9,392 |
| Cutouts and tuses ..................................................................................................................................................................... | 3,749 | 4, 192 |
| Instruments and meters | 12.979 | 13,038 |
| Pole line hardware. | 9,586 | 10,220 |
| Miscellaneous electrical equipment: |  |  |
|  | 1.254 | 1.961 |
| Lighting equipment | 2,114 | 2.772 |
| Telecommuntcation equipment other than domestic radio and television receiving sets ............................. | 7. 548 | 4,613 |
| Rectifiers (other then power) (semi-conductor snd/or electron tube type) (see Table 8k) ............................ | 1.305 | 1,570 |
| Miscellaneous e lectrical products.............................................................................................................. | 11,521 | 5, 258 |
| All other products | 23.847 | $43,53.4$ |
| 2. Amount received in payment for work done on materials and products owned by others. | 1.094 | 654 |
| Less adjustment for value of sales taxes, exclse duties and outward transportation charges which could not be deducted from Individual commodity items described above | (2,282) | (2,198) |
| Net adjustment for establishments recelving progress payments ................................................................... | 7,890 | 4.723 |
|  | 328,455 | 375.451 |

TABLE 14. Shipments of Selected Goods of 0 wn Manufacture - All Industries (Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

## A. Electric Generators and Parts, 1964 and 1965



TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Continued B. Filectric Motors ${ }^{2}$ and Parts, 1964 and 1965

| Item | 1964 |  |  | 1965 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Total rating | Value | Number | Total ratling | Value |
|  |  | h.p. | \$ 000 |  | h.p. | \$'000 |
| A.c. motors (except for railway and vehlcle use): |  |  |  |  |  |  |
| single phase induction: |  |  |  |  |  |  |
| $113 \mathrm{~h} . \mathrm{p}$. and under (except shaded pole or untversal motors) | 1.167. 200 | - | 15,129 | 1,219, 471 | $\cdots$ | 15,727 3,003 |
|  | 107.116 15.819 | $\because$ | 2,862 1,067 | 109,125 17.317 | $\because$ | 3,003 1,194 |
|  | 15,819 3,129 | 7. 335 | 1. 3267 | 17.317 3.883 | $\because$ | 1.194 392 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 1/2 h.p. and 3/4 h.p. | 6.931 12.809 | 7,515 | 434 | 15.329 | 7.177 | 503 |
| $1 \mathrm{~h} . \mathrm{p}$. to $5 \mathrm{~h} . \mathrm{p}$. Inclusive-open type | 24, 180 | 59.83739.582 | 1,565 | 39,582 | 61,02941.295 |  |
| $1 \mathrm{h.p}$. to $5 \mathrm{h.p}$. inclusive-enclosed type | 15,0359,004 |  | 1.3621.596 | 16,70510,976 |  | 1,992 1.565 |
| $6 \mathrm{~h} . \mathrm{p}$. to $25 \mathrm{h.p}$. inclusive-open type.... |  | 109, 749 |  |  | 4124, 701 | 1.565 |
| $6 \mathrm{~h} . \mathrm{p}$. to $25 \mathrm{~h} . \mathrm{p}$. Inclusive-enclosed type | 7,743 | 101,380 | 1.916 | 9.090 | 124, 1146 | 2, 270 |
| $26 \mathrm{~h} . \mathrm{p}$, to $100 \mathrm{~h}, \mathrm{p}$. inclusive-open type .... | 2, 840 | 144,786 | 1.727 | 3, 053 | 148, 255 |  |
|  | $\begin{array}{r}2.378 \\ \hline 620\end{array}$ | 124,951 | 2,2701,270 | 2.866 | 149.617 | 2, 234 2,668 |
| $101 \mathrm{h.j}$,to 200 h.p. inclusiveoopen type.......................................................... |  | 74,813 |  |  | 115.00664,159 | 2,668 1,690 |
| $101 \mathrm{h.p}$. to $200 \mathrm{h.p}$. inclusive-enclosed type | 300 | 43,311 | - 840 | + 420 |  | 1. 239 |
| $201 \mathrm{h.p}$. to $1000 \mathrm{~h} . \mathrm{p}$. inclusive .................... | 60541 | 232,25773,500 |  | 52753 | 198,40099,050 | 3,237 |
| $1001 \mathrm{h.p.and}$ over.................. |  |  | 3. 4794 |  |  | 1. 240 |
| Synchronous motors and condensers: |  |  |  |  |  |  |
| Up to and including 500 h.D. 501 h.p. to 2000 h.p. | 74 | 94,436 | ${ }_{1}^{2} 239$ | $\begin{aligned} & 38 \\ & 66 \\ & 25 \end{aligned}$ | $\begin{aligned} & 8,128 \\ & 71,254 \\ & 99,250 \end{aligned}$ | $\begin{array}{r} 312 \\ 1.328 \\ 2.070 \end{array}$ |
| 501 h.p. to 2000 h.p. $2001 \mathrm{~h}, \mathrm{D}$, and above |  |  |  |  |  |  |
| Accessorles and parts for a.c. motors | - | - | 1. 149 | . | -• | 634 |
| Rallway and vehicle motors, a.c. and d.c. | 1,313,541 | - | 2 | -• | - | \% |
| Shaded pole type motors, all ratings |  | - | 3,700 | 717.560 | $\cdots$ | 3,717 |
| Unlversal type motors, all ratings | 55.878 | . | 1,153 | 95,684 | . | 1. 246 |
| D.C. motors and generators, including exciters, (except for railway and vehicle use): |  |  |  |  |  |  |
| D.C. motors: <br> 1/3 kw. and under | 442,880 | -. | 2,763 | 1.023.069 | $\cdots$ | 3,317 |
| 1/2 kw . and $3 / 4 \mathrm{kw}$ |  |  |  |  | . |  |
| D.C. motors or generators: |  |  |  |  |  |  |
| 1 h.p. or kw. to 5 h.p. of kw. | 177 | $\begin{array}{r} 5,053 \\ 25,658 \\ 11,763 \\ 58,852 \end{array}$ | 117 <br> 523 |  |  | 62 |
| $6 \mathrm{~h} . \mathrm{p}$. or kw. to $25 \mathrm{~h} . \mathrm{p}$. or kw. | 263 |  |  | 121 | $\begin{array}{r} 2.227 \\ 28.677 \end{array}$ | . 319 |
| $26 \mathrm{~h}, \mathrm{p}$. or kw, $10100 \mathrm{~h} . \mathrm{p}$. or kw. | 452 |  | 2,036 | 488 |  | 2,406 |
| $101 \mathrm{~h} . \mathrm{p}$. or kw , to $200 \mathrm{h.p}$. or kw . | 76 |  | 511 |  | 28,677 | j |
| $201 \mathrm{~h} . \mathrm{p}_{\text {c }}$ or kw . to 1000 hap . or kw . | 107 |  | $3_{4} 136$ | - | $\cdots$ |  |
| 1001 h.p. or kw, and over ..................................... | - | $\because$ | 2. 059 | . |  | 2. 154 |
| Accessories and parts for d.c. motors mind generators | - | . | 17.843 ${ }^{\circ}$ | -• | - $\cdot$ | 20.797 |
|  | -. | ... | 73, $310^{t}$ | ... | - . | 79,498 |
| Totals | $\cdots$ |  |  |  |  |  |

C. Transformers, by Types, 1964 and 1965

| Type | 1964 |  |  | 1965 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Total rating | Value | Number | Total rating | Value |
|  |  | kva. | \$ 000 |  | kva. | \$ 000 |
| Distribution transformers - Ery type up to and including 200 kva .1 phase, 15 kv , and below; except dry type transformers ? kva, and below, | 8.265 | 339, 753 | 2. 358 | 9.859 | 213.615 | 2,551 |
| Distribution transformers - Dry type up to and including 225 kva .3 phase, 15 kv , and below: except dry type transformers 1 kva, and below... | 3,037 | 159,505 | 1.987 | 4,227 | 214,061 | 2,951 |
| Dlstribution transformers - Liquid filled type, up to and including 200 kva .1 phase, 15 kv . and below | 63,175 | 1.527,889 | 15,042 | 57,983 | 1.708.403 | 14.893 |
| Distributton transformers - Liquid filled type, up to and including 225 kva .3 phase, 15 kv , and below $\qquad$ | 1.699 | 139.471 | 1.544 | 2.272 | 859.339 | 3. 368 |
| Power translormers 7.500 kva . and less, up to and including 138 kv . class ................ | 1,684 | 2,547.918 | 12,007 | 2.019 | 5. 084, 404 | 18.959 |
| Power transformers above $7,500 \mathrm{kva}$. at all voltages, also all kva. rating in voltages above 138 kv . class. | 130 | 5.260. 250 | 18,186 | 201 | 6, 304,749 | 17.648 |
| Feeder fegulators <br> Single phase step voltage regulators <br> Three phase step voltage regulators with 750 kva. of regulation or less $\qquad$ | $\begin{array}{r} 185 \\ 40 \end{array}$ | $\begin{aligned} & 17,486 \\ & 13,031 \end{aligned}$ | $\begin{aligned} & 568 \\ & 477 \end{aligned}$ | 188 8 | 8, 533 | $\begin{gathered} 520 \\ 86 \end{gathered}$ |
| Current transformers: <br> Up to and including 15 kv . $\qquad$ <br> Above 15 kv . $\qquad$ | 31.190 | .. | 1.768 | 33.616 | . | 2,151 |
| Potential transformers: <br> U) :o and Including 15 kv . <br> $\therefore$ ave 15 kv . $\qquad$ | 9,076 | - | 1,191 | 10,927 | * | 1,405 |

See foutnotes at end of table.



|  | 1964 |  |  | 1965 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Total rating | Value | Nutrber | Total ratling | Value |
|  |  | kva. | \$'000 |  | kva. | \$ 000 |
| Molering outfits (combination of current and potential transfomers in one enclosure): Up to and including 15 kv . <br> Above 15 kv . | \} 493 | . | 427 | 478 | . | 536 |
| Luminous tube transformers ......................................................................................... |  |  |  |  |  |  |
| Imition transformers (oil and gas) ............................................................................. | \} . | $\cdots$ | 2,193 | . | -* | 4 |
| Radio and TV transformers: <br> Air core |  |  |  |  |  |  |
| Powdered iton and ferrite core.. | \} 3,540, 747 | - | 2. 932 | 3,512,445 |  | 2. 298 |
|  | 1.248,375 | $\ldots$ | 2,214 | -. |  | 2,869 |
| Transformers for electronic equipment (other than radio and TV) ................................ | 283, 838 | . | 1,807 | 457.848 | $\cdots$ | 3.650 |
| Fluorescent trans formers and ballasts ........................................................................ | 2,106.620 | . | 12,158 | 2,848,707 | $\cdots$ | 13.392 |
| Mercury lamp transformers | 84.330 | $\ldots$ | 2.614 | 80,915 | - | 2,779 |
| Bell ringing and chime transformers | .. | ' | 4 | . | $\ldots$ | - |
| Control and signalling transformers | 72.654 | . | 5.98 | 85,951 | . | 696 |
| General purpose dry type transformers, up to and including $2 \mathrm{kva.............................}$. | .. | . | 936 | . | $\cdots$ | - |
| All other transformers ................................................................................................ | . | - | 5,687 | . | * | 7.436 |
| Parts and supplies for transformers .......................................................................... | $\cdots$ | $\cdots$ | 838 | -. | - | 1,084 |
| Totals | ... | $\ldots$ | 87,502 | - . | - | 100, 272 |

!9. Flectrical Switch fiear and brotective Equipment (Except Iclephone Sisitchboards). F964 and 196.5


Ser iopusies as and diabar.

TABLE 14. Shipments of selected Goods of Own Manufacture - All Industries - Continued E. Electric Welding Apparatus and Welding Rod, 1956-6 ${ }^{\text {K }}$

F. Industrial Control Equipment, 1964 and 1965


TABLE: 14. Shipments of Selected Goods of Own Manufacture - All Industries - Continum G. Cutouts and Fuses, 1964 and 1965

| Item | Value |  |
| :---: | :---: | :---: |
|  | 1964 | 1965 |
|  | \$'000 |  |
| Cutouts and fuses: |  |  |
| Open, semi-enclosed and enclosed distribution cutouts ( 601 volts and above), indoor and outdoor fused disconnect switches including porcelain housed, removable switch blades for use therewith (do not include fuse links therefor) and repalr parts | 1.999 | 2.144 |
| Fuse links for distribution cutouts | 343 | 358 |
| Oll fuse cutouts including fuse links therefor and repair parts. | - | - |
| Power fuses (solid material type) - Up to and including 600 volts. |  |  |
| Power fuses 601 volls and ahove (solid material and current limiting types), fuse supports, fuse mountings and repair parts $\qquad$ | 716 | 627 |
| Fuse links for power fuses 601 volts and above (solid material and current limiting types)............................... | 8 | 681 |
| Cartridge fuses.... |  | - |
| Plug fuses... | 1,147 | - |
| Individual cutouts for cartridge and plug fuses.. | - | B |
| All other fuses,. | 1.259 | 2.190 |
| Renewal elements for cartridge fuses... | - | 176 |
| Totals ....................................................................................................................................................... | 5,434 | 6, 176 |

## H. Converter Equipment, 1964 and 1965

| Type | 1964 |  |  | 1965 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Total rating | Value | Number | Total rating | Value |
|  |  | tiv. | \$*000 |  | k v. | \$000 |
| Motor-generator sets up to and including 150 kw . - Induction and synchronous types (including frequency changers) | 109 | 5,398 | 483 | 143 | 9,492 | 675 |
| Motor-generator sets larger than 150 kw . - Induction and synchronous types(including frequency changers) | $\cdots$ | $\cdots$ | 2, $821^{\circ}$ |  |  |  |
| Mercury arc power rectifier and excitation cubicles (does not include associated switchgear or (ransformers) $\qquad$ |  |  |  |  |  |  |
| Semi-conductor power rectifier equipment including plate and crystal junction types (does not include assoclated switchgear, transformers or commercial battery chargers): | $\cdots$ | $\cdots$ | 1.709 | .. | $\cdots$ | 7. 471 |
| 5 kw , to 50 kw $\qquad$ Over 50 kw . $\qquad$ |  |  |  |  |  |  |
| Parts and supplies for converter equipment.................................................................... | - $\cdot$ | . $\cdot$ | $x$ |  |  |  |
| Totals of above items.............................................................................................. | - | ... | 5,013 ${ }^{\text {r }}$ | . . | ... | 8,146 |
| Rectifiers for storage battery charging (semi-conductor and/or electron tube type)............ | ... | ... | 1,700 | . . | . | 1,617 |

1. Watt-hour Meters, 1956 -65

| Year | Quantity | Value | Year | Quantity | Value |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | \$ 000 |  | No. | \$'000 |
| 1956................................................ | 534.742 | 8,019 | 1961.................................................. | 364,089 | 6,292 |
| 1957 | 469,188 | 7.951 | 1962... | 340.752 | 5.991 |
| 1958 ... | 399.935 | 6,915 | 1963................................................. | 392,065 | 6.325 |
| 1959 ................................................. | 410,943 | 7,493 | 1964................................................ | 389,889 | 7,063 |
| 1960 ................................................ | 315.992 | 5.978 | 1965................................................. | 387.948 | 7,354 |

See footnote at end of table.
I. ICLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Concludes J. Pole Itine Hardware, 1956-65

${ }^{1}$ Electric motors and/or generators as indicated.
Included with "All other motors or generators".
Includes rotors and stators.
" Included in "All other transformers"

- Included in "All other with "Other".

Includes both gas and electric welding rod of ferrous type only.
Includes "Resistance welding equlpment with controls" .
"Included in "All other fuses".

List of Fstablishments classified to this Industry. 1965
(Does not include establishments classified to other industries. which as a secondary activity, manufacture products typical of this industry)


|  |  |
| :--- | :--- | :--- |
|  |  |

## CONCEPTS AND DEFINITIONS

Census of Manufactures

## General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 ( 3 digit) industries, 18 are further broken down into 55 ( 4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the establishment (see definition of "Establishment" infollowing section) and a return is requested from every establishment classified to a manufacturing industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is reauired covering the period of operation.

There are four different questionnaires used in the Census of Manufactures: (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than $\$ 100,000$; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shippedby such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 135 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

## Establishment

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":
"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

Materials and supplies used
Goods purchased for resale as such
Fuel and power consumed
Number of employees and salaries and wages
Man-hours worked and paid
Inventories
Shipments or sales."
Each establishment is required to report on all the activities carried out within it's accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour
force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

## Head Offices and Auxiliary Units

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishmelits within the Census of Manufactures as they do not normally generate operational revenues. but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics ( 3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:
(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry ( 3 or 4 digit) as the establishment;
(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry ( 3 or 4 digit). When establishments of
such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry ( 3 or 4 digit) level in all cases will be left free of these company-wide data.

## Employees

(a) Production and related workers - Manufac= turing activities
In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen). engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.
(b) Production and related workers - Non-manufacturing activities
Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employ at in certain industries, logging employees who at reported as part of a sawmilling establishment ant any other production workers who are not engagte in manufacturing-type operations.

## (c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vicepresidents, comptrollers, secretarles, treasurers, t.tc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices of auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

## (d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing estahlishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

## (v) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

## Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a persan owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

## Salaries and Wages

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries. wages,
bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

## Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. Any fuel and electricity produced by establishments for internal consumption are not included in the total cost. Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

## Materials and Supplies

## (a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

## (b) Non-manufacturing activities

## 1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

## 2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of
purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

## Shipments

## (a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishrnent relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. Fot these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

## (b) Shipments of goods of own manufacture

These figures represent 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 establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered. including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common of contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own mamufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity
are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.
(c) Shipments of goods not of own manufacture

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

## (d) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for companyoperated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

## Inventories

## (a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses of selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the
receipt of revised data, the inclusion of new establishments and the removal of establishments which that not operate during the survey year.
(b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

## Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of coods of cwn manufacture adjusted for changes in the value of inventories of finished goods and goods in process).
(b) By non-manufacturing activities

The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-
chased for re-sale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

## (c) By Total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production. However, to arrive at the National Accounts concept of net production, of Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".


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