

# MANUFACTURERS OF MAJOR APPLIANCES <br> (ELECTRIC AND NON-ELECTRIC) 

## 1963

ANNUAL CENSUS<br>OF MANUFACTURES

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# MANUFACTURERS OF MAJOR APPLIANCES (ELECTRIC AND NON-ELECTRIC) 

1963

Data presented in this report under the heading of Manufacturers of Major Appliances (Electric and Non-electric) reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of industry statistics-see items "Standard Industrial Classification" and "Establishment" in the Fxplanatory Notes section of this report. For statistical purposes the industry titled Manufacturers of Major Appliances (Electric and Nonelectric) in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing household type appliances and machines such as stoves; refrigerators, home and farm freezers; window type air conditioning units; laundry equipment and sewing machines. Establishments primarily engaged in manufacturing small household electric appliances are classified in Industry No. 331 - Manufacturers of Small Flectrical Appliances.

## 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 A. Principal Statistics classified by Province, 1962 and 1963

| $\begin{aligned} & \text { Year } \\ & \text { and } \\ & \text { province } \end{aligned}$ | Estab-lishments | Manufacturing activity |  |  |  |  |  |  | Total activity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Production and related workers |  |  | Cost of Auel and elec. trlcity | Cost of materials and supplies | Value of shipments of goods of own manufacture | Value <br> added | Working owners and Dartnets |  | Total employees |  | Total value added |
|  |  | Number | Manhours paid | Wages |  |  |  |  | Number | Withdrawals | Numbet | Selaries and wages |  |
|  | No. |  | '000 |  |  | \$'000 |  |  |  | \$'000 |  |  | 00 |
| Toctis | 43 | 8,022 | 16,295 | 31,583 | 2,690 | 109,910 | 206,212 | 92,496 | - | - | 11,610 | 49.841 | 93,988 |
| Newfoundland | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Priace Edward Island | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nova Scotia ............................ | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Brunswlck ....................... | 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| Quebec ................................... | 10 | \} 2,283 | 4.783 | 8,350 | 760 | $25.452^{r}$ | 49,238 ${ }^{\text {F }}$ | 22,986 ${ }^{\text {r }}$ | - | - | 3,096 | 12,499 | $23.926^{7}$ |
| Ontario ................................ | 24 |  |  |  |  |  |  |  |  |  |  |  |  |
| Manitoba ................................... | - |  |  |  |  |  |  |  |  |  |  |  |  |
| Saskatchewan | - | 5, 801 | 12, 150 | 24,741 | 1,842 | 90,105 | $166,100^{\circ}$ | 77,519 ${ }^{\text {P }}$ | - | $\sim$ | 8,222 | 38,133 | $80,476{ }^{\text {r }}$ |
| Alberta .................................... | - |  |  |  |  |  |  |  |  |  |  |  |  |
| British Columbla ....................... | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Yukonand Northwest Territories | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Totals ............................ | 38 | 8,084 | 16,933 | 33,091 | 2,602 | $115,557^{8}$ | 215,338 ${ }^{\text {²}}$ | 100, 505 ${ }^{\text {r }}$ | - | - | 11.318 | 50,632 | 104. $4022^{\text {r }}$ |
| Newpoundend ......................... | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Prince Edward Island............... | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nova Scotle ............................ | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Rrunswlck ..................... | 3 | x | $x$ | x | x | x | 7 | $\pi$ | - | - | $x$ | x | $x$ |
| Quehec ..................................... | 11 | 2,107 | 4,505 | 8,068 | 711 | 31,258 | 50,849 | 21.877 | - | - | 2,863 | 11,960 | 22,383 |
| Onterlo ..................................... | 24 | 5,935 | 12,316 | 26.711 | 2,112 | 98,316 | 181,828 | 81,482 | - | - | 8,532 | 40,997 | 85,164 |
| Manitoba | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Saskatchewan ......................... | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Alberta .................................... | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Beitish Columbla | 1 | x | x | x | x | x | x | x | - | - | $\chi$ | X | x |
|  | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Totals | 39 | 8,503 | 17.713 | 36,272 | 2,987 | 132.359 | 239,272 | 107, 114 | - | - | 12,038 | 55,070 | 111,324 |

TABLE 1 B. Principal Statistics classified by Slze Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963


TABLF: 1 . Princtpal statistics classified by Size Groups based on Manufacturing Value Added. 1962 and 1963

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{3}{*}{Size groud} \& \multirow{3}{*}{Estab-lishments} \& \multicolumn{7}{|c|}{Manufacturing activity} \& \multicolumn{5}{|c|}{Total activity} <br>
\hline \& \& \multicolumn{3}{|c|}{Production and related workers} \& \multirow[t]{2}{*}{Cost of fuel and elecsricity} \& \multirow[t]{2}{*}{Cost of materlais and supplies} \& \multirow[t]{2}{*}{Value of shipments of goods of own manufacture} \& \multirow[b]{2}{*}{Value added} \& \multicolumn{2}{|l|}{Working owners and partners} \& \multicolumn{2}{|l|}{Total empioyees} \& \multirow{2}{*}{Total value added} <br>
\hline \& \& Number \& Manhours pald \& Wages \& \& \& \& \& Number \& Withdrawas \& Numbet \& Salarles and wages \& <br>
\hline \multirow[b]{2}{*}{1962} \& NO. \& \& ${ }^{\prime} 000$ \& \multicolumn{5}{|c|}{\$'000} \& \& \$'000 \& \& \multicolumn{2}{|c|}{\$'000} <br>
\hline \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Under \$10,000 ................... \& - \& - \& - \& - \& - \& - \& - \& - \& - \& - \& - \& - \& - <br>
\hline \$ $\begin{array}{lll}10,000 & \text { to } \\ 25,000 & 24,999 \\ 49,999\end{array}$ \& 3 \& 37 \& 74 \& 97 \& 5 \& 125 \& 285 \& 155 \& - \& - \& 44 \& 124 \& 183 <br>
\hline $$

$$ \& 4 \& 112 \& 228 \& 381 \& 17 \& 651 \& 1,371 \& 664 \& - \& - \& 150 \& 566 \& 709 <br>
\hline 200,000 ". $499,999 . . . . . . . .$. \& 4 \& 228 \& 484 \& 735 \& 68 \& 2. $644^{\text { }}$ \& 4, $524^{\text {r }}$ \& 2.001 ${ }^{\text {r }}$ \& - \& - \& 297 \& 1.042 \& 2. $251{ }^{\text {r }}$ <br>
\hline  \& 20 \& 4,013 \& 8,478 \& 14,752 \& 1,081 \& 50,676 \& 95,405 \& 44,270 \& - \& - \& 5,466 \& 22,419 \& 45,734 <br>
\hline 5,000,000 and over \& 7 \& 3, 694 \& 7,669 \& 17. 126 \& 1,432 \& 61,461 \& 113,753 \& 53,415 \& - \& - \& 5.361 \& 26, 480 \& 55, 525 <br>
\hline Head olfices, sales offices and auxiliary units \& $\ldots$ \& ... \& ... \& \& \& \& \& \& $\cdots$ \& $\ldots$ \& \& \& <br>
\hline Totals \& 38 \& 8,084 \& 16,933 \& 33,091 \& 2,602 \& 115, $5: 57^{t}$ \& 215, $338{ }^{\text {r }}$ \& 100, $50.5{ }^{T}$ \& - \& - \& 11,318 \& 500.632 \& 104,40\% <br>
\hline 1963 \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Under \$10,000 ............... \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline \$ $\begin{array}{lll}10,000 \\ 25,000 & \text { to } & 24,999 \\ 49,999\end{array}$. \& 3 \& 13 \& 26 \& 51 \& 2 \& 75 \& 156 \& 67 \& - \& - \& 17 \& 69 \& 97 <br>
\hline 50,000"' $\quad 199,999 \cdots \cdots$ \& 5 \& 87 \& 174 \& 297 \& 13 \& 427 \& 962 \& 585 \& - \& - \& 107 \& 388 \& 609 <br>
\hline 100,000

200,000 \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline 500,000 ${ }^{\text {a }}$ 999,999 - .......... \& 5 \& 357 \& 750 \& 1,148 \& 84 \& 4,608 \& 7,614 \& 2.973 \& - \& - \& 444 \& 1. 531 \& 3.055 <br>
\hline 1,000,000 " 4,999,999 ........... \& 19 \& 4,323 \& 9.183 \& 17. 292 \& 1. 288 \& 35.077 \& 100.979 \& 45.661 \& - \& - \& 5.963 \& 25.445 \& 46. Te\% <br>
\hline 5,000,000 and over .. \& 7 \& 3,723 \& 7, 581 \& 17.484 \& 1,589 \& 72, 173 \& 129, 562 \& 57.828 \& - \& - \& 5,507 \& 27,638 \& 80, $5 * 8$ <br>
\hline Head offices, sales offices and auxiliary units \& $\ldots$ \& \& \& ... \& ... \& \& ... \& \& $\cdots$ \& ... \& \& \& <br>
\hline Totals ................................ \& 39 \& 8,503 \& 17,713 \& 36,272 \& 2,97\% \& 132,359 \& 239, 272 \& 107, 114 \& - \& - \& 12,038 \& 55,070 \& 111. 23 <br>
\hline
\end{tabular}

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Valve Added, 1962 and 1963


TABLE 1 E. Principal Statistics clessified by Size Groups based on Total Employed, 1962 and 1963

| Size group | Estab-118hments | Manulacturing activity |  |  |  |  |  |  | Total activity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Production and related workers |  |  | Cost of Nel and electricity | Cost of materlals and supplieg | Value of shipments of goods of own manufacture | Value <br> added | Working owners and partners |  | Total employees |  | Total value added |
|  |  | Number | Manhours Daid | Wages |  |  |  |  | Number | Withdrawals | Number | Salaries and wages |  |
|  | No. |  | '000 |  |  | \$'000 |  |  |  | \$*000 |  | *'0 |  |
| 1962 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 5 employed ...................... | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5-14 employed ..................... | 10 | 260 | 558 | 892 | 60 | 2,729 ${ }^{\text {² }}$ | 4,949 ${ }^{\text {\% }}$ | 2,195 | - | - | 341 | 1,316 | 2,504 ${ }^{\text {r }}$ |
| 100-199 \#. ...................... | 7 | 858 | 1,846 | 3,162 | 245 | 11,422 | 20.317 | 9,072 | - | - | 1.082 | 4. 404 | 9. 263 |
| 200-499 " | 13 | 2,895 | 6.106 | 11.095 | 765 | 36,187 | 67, 317 | 30,905 | - | - | 3,936 | 16,372 | 31,124 |
| 500 employed and over ................ | 8 | 4,071 | 8,423 | 17.942 | 1,532 | 65.239 | 122,755 | 58,333 | - | - | 5.957 | 28,540 | 61,511 |
| Head offlces, sales offices and auxiliary units | ... | ... | ... | ... | ... | ... | ... | ... | . . | ... |  | 2, 50 |  |
| Totels ............................. | 38 | 8.084 | 16.933 | 33,091 | 2,602 | 115,557 ${ }^{\text {r }}$ | 215,338 ${ }^{\text { }}$ | 109, 505 | - | - | 11.318 | 50,632 | 104.402 ${ }^{\text {P }}$ |
| 1963 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under 5 employed <br> 5- 14 employed | 4 | 19 | 38 | 74 | 4 | 105 | 222 | 173 | - | - | 25 | 102 | 204 |
| $15-49$ "  <br> $50-99$ .  | 7 | 185 | 385 | 654 | 46 | 2, 424 | 4,274 | 1,303 | - | - | 241 | 946 | 2,050 |
| 100-199 * | 5 | 544 | 1. 138 | 2, 205 | 108 | 11,221 | 19. 248 | 7, 953 | - | - | 798 | 3.474 | 7. 856 |
| 200-499 | 15 | 3,537 | 7.471 | 13,484 | 1.011 | 44,808 | 80,100 | 36,006 | - | - | 4.686 | 19.126 | 36, 467 |
| 500 employed and over | 8 | 4.218 | 8.681 | 19.855 | 1.810 | 73,801 | 135,429 | 61,079 | - | - | 6. 288 | 31.422 | 64.748 |
| Head offices, sales offices and auxiliary units | ... | ... | ... | ... | . | . | , | 61.078 | . | . . | , | . 12 | ... |
| Totals | 38 | 8,503 | 17,713 | 38,272 | 2.977 | 132,339 | 239. 272 | 107, 114 | - | - | 12,038 | 55, 070 | 111,324 |

TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963


TABIEE 2. Industry Output, Input and talue Added, 1962 and 1963

|  | Manufacturing activity |  | Non-manufacturing activities |  | Totalactivity |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1902 | 1963 | 1962 | 1963 | 1962 | 1963 |
|  | \$ 000 |  |  |  |  |  |
| Output |  |  |  |  |  |  |
| 1. Shipments and other revenue .................... | $215.338^{\text {r }}$ | 239,272 | 25,390 ${ }^{\text {r }}$ | 21,856 | 240,728 | 261, 128 |
| Inventories - Goods of own manufacture: |  |  |  |  |  |  |
| Add closing - Goods in procsss ................................... | 11, 803 ${ }^{\text {r }}$ | 13,195 | ... | $\ldots$ | 11,803 | 13,195 |
| Finished goods | 28,377 ${ }^{\text {P }}$ | 28, 927 | . . | $\ldots$ | 28.377 | 28.927 |
| Less opening - Goods in process ............................ | 11.249 ${ }^{8}$ | 12,060 | $\cdots$ | . . | 11.249 | 12,060 |
| Finished goods ................................... | $25.605^{r}$ | 26,883 | . . | ... | 25.605 | 26,883 |
| 2. Net inventory change | 3,326 | 3,179 | $\ldots$ | ... | 3.326 | 3,179 |
| 3. Grose output ( $1+2$ ). | 218,664 ${ }^{\text {r }}$ | 242,451 | 25,390 ${ }^{\text {\% }}$ | 21,856 | 244.054 | 264, 307 |
| Input |  |  |  |  |  |  |
| 4. Purchases of goods not of own manufacture | $\ldots$ | ... | 19.511 ${ }^{\text {e }}$ | 15.857 | 19,511 | 15.857 |
| Invent ofles - Goods not of own manufacture: |  |  |  |  |  |  |
| Add opeping ................................ | $\cdots$ | $\ldots$ | 4,661 ${ }^{\text { }}$ | 5.112 | 4,661 | 5,112 |
| Lest closing ............................................................. | ... | . . | 3, $5884^{\text {r }}$ | 4.070 | 3,584 | 4,070 |
| 5. Cost of goods sold (not of own manufacture) ........................ | ... | $\ldots$ | 20,588 ${ }^{\text {r }}$ | 16,899 | 20.588 | 16.899 |
| 6. Materials, supplies, components and semi-ptocessed goods | $115.557^{\text {r }}$ | 132.359 | 905 | 746 | 116,462 | 133. :05 |
| 7. Fuel and electricity ....................................................... | 2,602 | 2,977 | ... | $\ldots$ | 2,602 | 2.57\% |
| 8. Gross input ( $5+8+7$ ) ...................................................... | 118, $159{ }^{\circ}$ | 135.336 | 21,493 ${ }^{\text {P }}$ | 17.645 | 139,652 | 152, 384 |
| Cersus value odded (3-8) ..................................... | 100, $505{ }^{\text {P }}$ | 107, 114 | 3,897 ${ }^{7}$ | 4.210 | 104, $402^{\text {r }}$ | 111, 324 |

Table 3. Employment and Payroll, 1982 and 1963

| $\begin{gathered} \text { year } \\ \text { and } \\ \text { province } \end{gathered}$ | Employees |  |  |  |  |  |  |  |  |  | Salaries and wages |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Production and related workers |  |  |  | Administrative and office |  | $\begin{gathered} \text { Sales } \\ \text { and } \\ \text { distribution } \end{gathered}$ |  | Total employees |  | Production and related workers |  | Admin-istrative and offle | Bales and distribution | salaries and wages |
|  | Manufacturing |  | Other |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Manufac- turing | Other |  |  |  |
| 1962 number |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Newfoundland |  | - | - | - | - | - | --- | $-$ | - |  | - | - | - | - | - |
| Prince Edward Island | - | - | - |  | - |  |  |  |  |  |  |  |  |  |  |
| Nove Scotia ......................... | - |  |  |  |  |  |  | - | - | - | - | - | - | - | - |
| New Brunswick .................... | 2.133 | 150 | 13 | - | 423 | - | - | 12 |  |  |  |  |  |  |  |
| Quebec .............................. |  |  |  |  |  | 178 | 187 |  | 2.756 | 340 | 8,350 | 33 | 3,042 | 1,074 | 12,498 |
| Ontario | 5. 509 | 292 | 2 | - | 1,166 |  | 665 | 162 | 7. 342 | 880 | 24.741 | 14 |  |  |  |
| Manitoba ............................. |  |  |  |  |  | 426 |  |  |  |  |  |  | 8,316 | 5,063 | 38, 133 |
| Saskatchewan ........................ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alberts ............................... |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| British Columbla .................. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Yukon and Northwest Temitories | $\begin{gathered} - \\ 7.642 \end{gathered}$ | 442 | - | - | $\stackrel{-}{-}$ | $-$ | $852$ | $\frac{-}{174}$ | $10,098$ | $1,220$ | $33,091$ | $47$ | $11.358$ | $6,-\overline{136}$ | $50,632$ |
| Totals .......................... |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |
| 1963 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Newfoundlapd ....................... | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Prince Edward Island ........... | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nova Scotia ......................... | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Brunswlck ................... | x | $\times$ | - | - | x | $x$ | x | - | $\times$ | $\chi$ | $x$ | - | x | $\times$ | $\chi$ |
| Quebec .... | 1,958 | 149 | 1 | - | 424 | 141 | 170 | 20 | 2. 553 | 310 | 8,098 | 2 | 2,894 | 996 | 11,960 |
| Ontarlo | 5,661 | 274 | 11 | - | 1,328 | 399 | 708 | 151 | 7. 708 | 824 | 26, 711 | 53 | 9,351 | 4, 881 | 40,987 |
| Manitoba .............................. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Suskatchewan | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Alberta .... | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| British Columbia ................. | $x$ | * | - | - | x | * | x | - | X | $\times$ | x | - | x | * | x |
| Yukon and Northwest Tertitories | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Totals ............................ | 8,077 | 428 | 12 | - | 1,849 | 604 | 899 | 171 | 10,837 | 1. 201 | 36.272 | 55 | 12,718 | 6,023 | 55, 070 |

TABLE 3 A. Production and Related Workers, - Manufacturing Activity, by Months, 1962 and 1963

| Mooth | Establishments reporting monthly detall |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1962 |  | 1963 |  |
|  | Male | Female | Male | Female |
|  |  | num |  |  |
| January | 7,434 | 430 | 7,661 | 417 |
| February | 7,486 | 430 | 7.762 | 404 |
| March | 7,617 | 452 | 7,879 | 425 |
| Apr 1 | 7,558 | 445 | 8, 062 | 443 |
| Mey ................................................................................................................................... | 7,851 | 461 | 8,202 | 435 |
| June | 8, 023 | 478 | 8,249 | 417 |
| July | 7.438 | 449 | 8,061 | 387 |
| August | 7,945 | 445 | 8,114 | 420 |
| September ............................................................................................................................. | 8,134 | 446 | 8,386 | 446 |
| October ................................................................................................................................ | 7,717 | 438 | 8, 396 | 447 |
| November ........................................................................................................................... | 7,386 | 422 | 8,180 | 442 |
| December ........................................................................................................................ | 7.075 | 406 | 7,980 | 434 |
| Average for establishments reporting monthly detail (collected only for large establishments).. | 7.642 | 442 | 8,077 | 426 |
| Average for emall establishmente (only annual averages collected) ....................................... | - | -•• | $\cdots$ | . . |
| Average for all eetablishments ............................................................................................ | 7.642 | 442 | 8,077 | 426 |

TABLE 4. Industry Inventories, 1963

| Province | Manufacturing |  |  |  | Nonmanufacturing | Total inventuries |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Raw materials and supplies | Goods in process | Finished goods of own manufacture | Total manufacturing | Products or materials purchased for resale |  |
|  |  |  | book val | e \$000 |  |  |
| Opening: |  |  |  |  |  |  |
| Newfoundland | - | - | - | - | - | - |
| Prince Edward Island | - | - | - | - | - | - |
| Nova Scotia | - | - | - | - | - | - |
| New Brunswlck | $\pm$ | x | x | \% | x | x |
| Quebec | 2,636 | 4, 017 | 5,331 | 11.984 | 1. 501 | 13,485 |
| Ontario | 11,650 | 7,874 | 20,533 | 40, 057 | 3,585 | 43,642 |
| Manitoba | - | - | - | - | - | - |
| Saskatchewan | - | - | - | - | - | - |
| Alberta ........ | - | - | - | - | - | - |
| British Columble | $\times$ | $x$ | x | x | x | x |
| Yukon and Northwest Territories | - | - | - | - | - | - |
| Totals | 15, 081 | 12,060 | 26.883 | 54,024 | 5,112 | 59.136 |
| Closing: |  |  |  |  |  |  |
| Newfoundland | - | - | - | - | - | - |
| Prince Edward Island | - | - | - | - | - | - |
| Nova Scotia | - | - | - | - | - | - |
| New Brunswick | $\times$ | $\times$ | * | * | x | x |
| Quebec | 3,621 | 5.113 | 7.232 | 15.966 | 1.032 | 16.998 |
| Ontario | 11,433 | 7.820 | 20,568 | 39,921 | 3. 025 | 42,946 |
| Manitoba | - | - | - | - | - | - |
| Saskatchewan | - | - | - | - | - | - |
| Alberta ........ | - | - | - | - | - | - |
| British Columbia ...................... | x | x | x | x | $x$ | x |
| Yution and Northwest Territories | - | - | - | - | - |  |
| Totals ..................................... | 15, 903 | 13,195 | 28,927 | 58, 025 | 4,070 | 62, 09.3 |

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

| Description |
| :--- |

TABLE 6. Materials and Supplies-Manufacturing Activity, 1962 and 1963

| Description | 1962 |  | 1963 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
|  |  | \$000 |  | \$ 000 |
| 1. Materials used: |  |  |  |  |
| Aluminum: |  |  |  |  |
| Castings ........................................................................................................... 1b. 1 . | 1,113,852 | 452 | 1,104,611 | 428 |
| Sheets and strip................................................................................................... | 1,057,767 | 495 | 1,100,780 | 622 |
| Other .................................................................................................................. | .. | 193 | -. | 276 |
| Brass and bronze: |  |  |  |  |
| Castings ............................................................................................................ lb. | 383, 259 | 180 | 94,674 | 54 |
| Wire rods ............................................................................................................... ${ }^{\text {a }}$ | 342,495 | 177 | 370,240 | 135 |
| Sheets and strip................................................................................................. ". | 215,836 | 129 | 373,412 | 195 |
| Other ................................................................................................................ | .. | 155 | $\cdots$ | 105 |
| Copper: |  |  |  |  |
| Sheets and strip................................................................................................ ib. | 13,330 | 11 | 22,829 | 16 |
| Tubing and pipe................................................................................................. " | 828,439 | 781 | 829,184 | 708 |
| Wire, enamelled .................................................................................................. " | 333, 406 | 302 | 318,410 | 204 |
| Wire, other insulated | .. | 526 | . | 620 |
| Other ................................................................................................................ | " | 55 | $\cdots$ | 32 |
| Insulating varnishes, japans, enamels and lacquers | - | 138 | - | 209 |
| Iron and steel (except alloy): |  |  |  |  |
| Castings: |  |  |  |  |
| Iron, gray and malleable ..................................................................................... ton | 3,943 | 1,396 | 4,208 | 1,545 |
| Steel ............................................................................................................... ${ }^{\text {a }}$ | 1,336 | 401 | 70 | 35 |
| Pig iron | 3,657 | 291 | 3,950 | 290 |
| Steel bars and rods | 3,397 | 768 | 4,500 | 847 |
|  |  |  |  |  |
| Plain .............................................................................................................. ${ }^{\text {. }}$ | 84, 934 | 14,230 | 92,441 | 15,722 |
| Gaivanized ........................................................................................................ ${ }^{\text {. }}$ | 2,229 | 418 | 4,503 | 787 |
| Steel wire ....t...................................................................................................... | 3,985 | 902 | 831 | 224 |
| Structural steel ................................................................................................... | 53 | 11 | 37 | 7 |
| Scrap iron and steel ................................................................................... ${ }^{\text {a }}$ | 3,450 | 120 | 3,230 | 129 |
| Other (except alloy) | . | 950 | -• | 1,990 |
| Alloy steel - in all forms: |  |  |  |  |
| Stainiess | - | 331 | - | 350 |
| Silicon sheets and strips ................................................................................. ton | 33 | 14 | 26 | 9 |
| Other alloy, jncluding tool steel. | . | 53 | . | 101 |
| Lead ................................................................................................................. 1 l . b $^{\text {. }}$ | 44,513 | 14 | 52,088 | 20 |
| Mica (unfabricated forms only) | 250,000 | 127 | 255,000 | 130 |
| Motors electric: |  |  |  |  |
| Under 1 h.D. .................................................................................................... No, | 447,529 | 5,580 | 460,237 | 5,750 |
| 1 h.p. and over A.C. or D.C. ................................................................................ * | 232 | 14 | 308 | 16 |
| Paints, stains, lacquers for finishing only ............................................................... | -•* | 1,388 | . | 1,426 |
| Resins, synthetic: |  |  |  |  |
| Vlnyl type ........................................................................................................ | - | 111 | - | 158 |
| Polyethylene type | - | 388 | . | 504 |
| Other (bakelite, etc.) ....................................................................................... | . | 121 | - | 153 |
| Resistance wire, fibbon and strip............................................................................ lb. | 54, 269 | 120 | 56.545 | 130 |
| Sulphuric acid, $100 \%$........................................................................................... * | 355,812 | 11 | 480, 048 | 13 |
| All other materials and components used ................................................................. | $\cdots$ | $76,257^{r}$ | -•• | 88, 224 |
| 2. Containers and other packaging materials and supplies used...................................... | -* | 3,778 | - $\cdot$ | 4,880 |
| 3. Operating, maintenance and repair supplies used (excluding fuel)................................ | - $\cdot$ | 3,383 | $\cdots \cdots$ | 3,511 |
| 4. Arount paid out to others for work done on matertals owned by estabishments ............ | -.. | 786 | ** | 804 |
|  | ** | 115,557 ${ }^{\text {r }}$ | -* | 132,358 |

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

| Description | 1962 |  | 1963 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
|  | NO. | \$'000 | No. | \$000 |
| 1. Products: |  |  |  |  |
| Laundry equipment: |  |  |  |  |
| Dryers, mechanical: |  |  |  |  |
| Electric ................................................................................................................... | 120,235 | 14,748 | 129, 283 | 15. 251 |
| Gas ......................................................................................................................... | 11.627 | 1,820 | 16,671 | 2. 395 |
| Washing machajnes, domestic: |  |  |  |  |
| Electric: |  |  |  |  |
| Automatic ........................................................................................................ | 94, 169 | 17,727 | 121.490 | 22,327 |
| Conventional ....................................................................................................... | 203,676 | 17.967 | 224,634 | 17. 987 |
| Gasoline | 2, 254 | 236 | 1,251 | 131 |
| Refrigeration and airmconditioning equipment: |  |  |  |  |
| Freezers, home and farm: |  |  |  |  |
| Upright. | 6,025 | 933 | 12.769 | 1.714 |
| Chest | 113,967 | 18.146 | 125,168 | 20,690 |
| Refrigerators, household, electric | 244,880 | 41.018 | 285, 483 | 48,977 |
| Stoves and ranges: |  |  |  |  |
| Built-in cooking ovens, domestic, electric | 19,246 | 2.163 | 21.885 | 2,741 |
| Coal، wood, sawdust burning: |  |  |  |  |
| Cooking .................................................................................................................. | 8.237 | 969 | 7,148 | 819 |
| Heating | 8,849 | 387 | 8.536 | 395 |
| Solid fuel and gas or oll and gas combination | 3,018 | 757 | 2,536 | 635 |
| Solid fuel and electric or ofl and electric combination | 3,136 | 903 | 2,609 | 703 |
| Gas, cooking. with ovens, domestlc | 36.368 | 4,693 | 37.601 | 4,917 |
| Gas, heating and space heaters | 12.749 | 860 | 15,557 | 931 |
| Electric cooking top mountings | 21,979 | 1,234 | 18.893 | 1,061 |
| Electric cooking stoves or ranges: |  |  |  |  |
| Less than 28 inches wide ........................................................................................... | 73,225 | 7. 744 | 81,444 | 8,256 |
| 28-32 inches wide | 161,390 | 24,769 | 161.795 | 25,132 |
| Over 32 inches wide | 1,283 | 466 | 1,136 | 381 |
| Fruel all (distillate): |  |  |  |  |
| Cooking .......................................................................................................................... | 8,003 | 1,388 | 7,684 | 1,357 |
| Heating and space heaters ...................................................................................... | 35.622 | 2.034 | 38,246 | 2. 203 |
| Furnaces, warm ait: |  |  |  |  |
| Coal or wood burning | 1,396 | 297 | 708 | 109 |
| Gas butning .................................................................................................................. | 17.669 | 2,452 | 17,854 | 2. 397 |
| Oil burning ....................................................................................................................... | 23,461 | 5.107 | 26, 230 | 5,973 |
| Amount recelved for repairs ............................................................................................. | ... | 2,992 | ... | 6, 052 |
| All ather products ............................................................................................................ | - . | $43.828^{\text {r }}$ | - . | 44,972 |
| 2. Amount received in payment for work done on materials and products awned by others ........... | . $\cdot$ | 677 | . . | 1,441 |
| Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commadity items described above | -•• | (978) | -•• | - 65 |
| Net adjustment for establishments receiving progress payments ........................................... | ** | . $\cdot$ | ... |  |
| Total edjusted value of shipments and wort dome ....................................................... | ... | 215,338 ${ }^{\text {r }}$ | . $\cdot$ | 239,273 |

TABLE. 8. Shipments of Selected Goods of Own Manufacture - All Industries
il:ciudes shipments from other industries which manufacture, as a secondary activity, the commodities (Ified) A. Stoves Made in Canada, 1962 and 1963

|  | 1962 | 1963 |
| :---: | :---: | :---: |
| Coal, wood and sawdust burning cooking stoves and ranges, including ranges with gas or electric extension $\begin{aligned} & \text { No. }\end{aligned}$ | $\begin{aligned} & 9,127 \\ & 1,013 \end{aligned}$ | $\begin{array}{r} 7.907 \\ 861 \end{array}$ |
| Coal, wood and sawdust burning heating stoves and space heaters, including all heaters, circulators, Quebec. box, oak. Franklin globular and laundry $\qquad$ | $\begin{array}{r} 12.280 \\ 521 \end{array}$ | $\begin{array}{r} 12.970 \\ 535 \end{array}$ |
| Solid fuel and gas combination or oil and gas combination (not including stoves or ranges with gas extension) $\begin{aligned} & \text { No. } \\ & \$ 000\end{aligned}$ | $\begin{array}{r} 3,018 \\ 758 \end{array}$ | $\begin{array}{r} 2,536 \\ 635 \end{array}$ |
| Solid fuel and electric combination or oil and electric combination (not including staves or ranges with electric extension) $\qquad$ | $\begin{array}{r} 3,136 \\ 903 \end{array}$ | $\begin{array}{r} 2,609 \\ 703 \end{array}$ |
| Gas cooking stoves and ranges (not combinations), (including all styles with ovens)................................. No. ${ }^{\text {No. }}$ ( ${ }^{\circ} 000$ | $\begin{array}{r} 36,448 \\ 4.794 \end{array}$ | $\begin{array}{r} 41,176 \\ 5,174 \end{array}$ |
|  | $\begin{array}{r} 20,593 \\ 1,570 \end{array}$ | $\begin{array}{r} 23,355 \\ 1,742 \end{array}$ |
| Cooking ovens, electric, built-in .............................................................................................................. ${ }^{\text {a }}$ No. ${ }^{\text {No. }}$ | $\begin{array}{r} 22,237 \\ 2,483 \end{array}$ | $\begin{array}{r} 22,048 \\ 2,766 \end{array}$ |
| Electric cooking top mountings ............................................................................................................... No........ ${ }^{\text {No. }}$ | $\begin{array}{r} 22,341 \\ 1,268 \end{array}$ | $\begin{array}{r} 19,078 \\ 1,070 \end{array}$ |
|  | $\begin{array}{r} 239.979 \\ 33.526 \end{array}$ | $\begin{array}{r} 247,865 \\ 34,066 \end{array}$ |
| Electric rangettes, including cord attachment and oven as one unit .......................................................... No. ${ }^{\text {No. }}$ | $\begin{array}{r} 19.202 \\ 667 \end{array}$ | $\begin{array}{r} 10.684 \\ 394 \end{array}$ |
| Electric cooking plates and grills, including stoves for glass coffee-makers ................................................... No.0. ${ }^{\text {N }}$, | $\begin{array}{r} 114.740 \\ 476 \end{array}$ | $\begin{array}{r} 35,921 \\ 229 \end{array}$ |
| Oil (kerosene) and gasoline cooking stoves and ranges .......................................................................................... ${ }^{\text {No. }} 0$ | $\cdots$ | $\cdots$ |
| Oil (kerosene) and gasoline heating stoves and space heaters ................................................................ ${ }_{\text {No. }}$ No. ${ }^{\prime} 0$ | $\because$ | $\begin{array}{r} 3,265 \\ 208 \end{array}$ |
| Fuel oil (distilate) cooking stoves and ranges ........................................................................................ ${ }^{\text {No. }}$ No. ${ }^{\prime}$ | $\begin{aligned} & 8,603 \\ & 1,478 \end{aligned}$ | $\begin{array}{r} 10,648 \\ 1,488 \end{array}$ |
|  | $\begin{array}{r} 39,539 \\ 2,226 \end{array}$ | $\begin{array}{r} 38,246 \\ 2,203 \end{array}$ |

B. Household Mechanical Refrigerators, ${ }^{\text { }}$ 1954-63

| Year | Number | Value | Year | Number | Value |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \$'000 |  |  | \$'000 |
| 1954 .......................................................... | 229,964 | 44,037 | 1959 ........................................................... | 256.778 | 44,548 |
| 1955 ............................................................ | 271,532 | 49,548 | 1960 ......................................................... | 239.436 | 40.211 |
| 1956 ............................................................. | 269,213 | 47.443 | 1961 ......................................................... | 234,662 | 39,800 |
| 1957 ............................................................... | 235,539 | 42.429 | 1962 ......................................................... | 247,693 | 41,444 |
| 1958 .......................................................... | 226,523 | 39.759 | 1963 ......................................................... | 293,236 | 50,016 |

${ }^{2}$ Complete units (electric and gas), alt sizes.
C. Home Freezers, 1954-63

| Year | Number | Value | Year | Number | Value |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \$'000 |  |  | \$'000 |
| 1954 ....................................ar................................ | 8,159 | 2,172 | 1959 .................................................................... | 60,665 | 12,103 |
| 1955 .,..0.0.n. .................................................... | 13,081 | 3,296 |  | 73,606 | 13.531 |
| 1956 ............................................................... | 12,691 | 3,176 | 1961 | 91,797 | 15,972 |
| 1957 .............................................................. | 20,908 | 4,619 | 1962 | 127,683 | 20,545 |
| 1958 ............................................................... | 31,685 | 6,713 | 1963 ............................................................. | 137,937 | 22,404 |

TABIE 8. Shipments of Selected Goods of Own Manufacture-All Industries - Concluded
D. Domestic Washing Machines, $1954=63$

|  | Electric |  |  |  | Gasoline |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Automatic ${ }^{\text {a }}$ |  | Conventional |  |  |  |  |  |
|  | Number | Value | Number | Value | Number | Value | Number | Value |
|  |  | \$'000 |  | \$'000 |  | \$'000 |  | \$'000 |
| 1954 | 27,629 | 5,448 | 192.198 | 18,780 | 6,411 | 712 | 226, 238 | 24,942 |
| 1955 | 36,782 | 7, 136 | 237.600 | 22, 765 | 5,420 | 622 | 279,802 | 30,524 |
| 1956 | 49,765 | 9, 292 | 250,879 | 23,552 | 5,278 | 636 | 305,922 | 33,480 |
| 1957 | 52,569 | 10,313 | 220,632 | 20,283 | 3,546 | 414 | 276,747 | 31,011 |
| 1958 | 60,326 | 11,983 | 234, 200 | 21,800 | 3.686 | 422 | 298. 212 | 34,206 |
| 1959 | 76,718 | 14,668 | 246,191 | 21,440 | 3,974 | 454 | 326,883 | 36,564 |
| 1960 | 75,337 | 14,768 | 211,848 | 18,873 | 2,581 | 283 | 289,766 | 33,926 |
| 1961 | 84,476 | 16, 265 | 211,039 | 18,312 | 2,107 | 242 | 297,622 | 34.819 |
| 1962 | 94,432 | 17,782 | 206, 571 | 18,027 | 2,254 | 236 | 315,857 | 36,045 |
| 1963 | 121.490 | 22.327 | 225,682 | 18,024 | - | -• | 347.172 | 40,351 |

${ }^{3}$ Includes automatic washer-dryers.
E. Domestic Electric Ironing Machines, 1954-63

| Year | Number | Value | Year | Number | Value |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \$ 000 |  |  | \$ 000 |
| 1954 .......................................................... | 6.020 | 530 | 1959 ........................................................... | 1,115 | 177 |
| 1955 ........................................................... | 3,900 | 367 | 1960 .......................................................... | 1.720 | 260 |
| 1956 ......................................................... | 4.647 | 380 | 1961 ....................................................... | 1.041 | 162 |
| 1957 ......................................................... | 2,740 | 310 | 1962 ......................................................... | 1,000 | 150 |
| 1958 .......................................................... | 1,754 | 230 | 1963 ............................................................ | - | . |

F. Clothes Dryers, Automatic, 1954-63

|  | Electric |  | Gas |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Value | Number | Value | Number | Value |
|  |  | \$'000 |  | \$'000 |  | \$'000 |
| 1954 | . | . | . | . | 20,775 | 3,017 |
| 1955 | . | . | $\cdots$ | $\cdots$ | 38,027 | 5,191 |
| 1956. | -• | - | . | .. | 55,389 | 7.743 |
| 1957. | - | . | - | . | 65,950 | 9,191 |
| 1958 | 81,868 | 10,693 | 3,237 | 519 | 85, 105 | 11, 213 |
| 1959. | 105,813 | 13,589 | 4,490 | 776 | 110,313 | 14,365 |
| 1960. | 100,486 | 13,243 | 10,025 | 1,754 | 110,511 | 14,997 |
| 1961 | 105,632 | 13,182 | 11,889 | 2,116 | 117.521 | 15. 298 |
| 1962. | 120,235 | 14,748 | 11,627 | 1.820 | 131,862 | 16.568 |
| 1963 | 129,283 | 15,251 | 16,671 | 2,395 | 145,954 | 17.646 |

List of Establishments classified to This Industry, 1963
;Does not include establishanents classifled to other industries, which as a secondary activity, manufacture products typical of this industry)

| Name | Location |
| :---: | :---: |
| New Brunswick: |  |
| Enamel and Heating Products Limited | Sackville |
| Enterprise Foundry Co. Ltd. | Sackville |
| Record Stove and Furnace Co. Limited | Box 686, Moncton |
| Queber: |  |
| Arrow Sewing Macbine CO. Ltd. | 754 Wellington St., Montreal |
| Belanger, A. Limitée | Montmagny |
| Canadian General Electric Co. Ltd. | 5781 Notre Dame St. E., Montreal |
| Connor, J.H. and Son | 20 Lois St., Hull |
| ContInental Industries Ltd. | St. Jerome |
| Hickory Industries of Can. Ltd. | 2015 Drummond St., Montreal |
| Hupp Canade (1961) Ltd. | L'Assomption |
| La Fonderie de L'Lslet Limitée | L'Islet Station |
| New Williams Mig. Co. Ltd., The | 2740 Notre Dame E., Montreal |
| Singer Company of Canada Ltd. | St. John's |
| Tappan-Gurney Ltd. | 3 BO Ste. Croix Blvd., Montreal |
| Ontario: |  |
| Beach Foundry Ltd. | 75 Spencer St., Ottawa |
| Beatly Bros, Ltd. | Fergus |
| Bellwood Appliance Co. Ltd. | Fergus |
| Brantford Washing Machines Ltd. | 35 Fleldway Rd., Toronto |
| Cumadian Westinghouse Co. Ltd. | 286 Sanford Ave, N., Hamilton |
| Canadian Coleman Co. Ltd.. The | 9 Davies Ave., Toronto |
| Basy Washing Machine Co. Ltd. | 135 St. Clair Ave. W., Toronto |
| tise!ph Stove Co. Ltd. | Guelpb |
| Pairgreve \& Son Ltd. | 44 Dovercourt Rd., Toronto |
| Findlays Ltd. | Carieton Place |
| Franklin Mig. Co. (Canada) Ltd. | Galt |
| Frigidaire Products of Canada Ltd. | Scarborough |
| General F'reezer Ltd. | Woodbridge |
| General Steel Wares Limited | 199 River St., Toronto |
| Gils on Manufacturing Co. Lid. | Guelph |
| Hard Metal Fabrlcators Ltd. | 731 Runnymede Road. Toronto |
| Harriston Stove Co. Ltd., The | Harriston |
| John Inglis Company Limited | 14 Strachan Ave., Toronto |
| Kelvinator of Canada Ltd. | London |
| Maxwelis Limited | St. Marys |
| Moffats Limuted | Weston |
| Wood, W.C. Co. Ltd., The | Gueliph |
| Simplicity Producte Ltd. | Hespeler |
| Simpson, A.K. Industries Ltd. | 157 Willowdale Ave., Willowdale |
| British Columbin: <br> Coast Foundry Co. Ltd. $\qquad$ |  |
|  | Burnaby |

# 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 of 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 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 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" in following 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 required 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 shipped by 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 140 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 various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. 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 economi: 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 ats 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 compantes classified to the manulacturing 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 of 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 establishments 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 tirms, 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 - Manufacturing activity

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 similas work to that of the employees they supervise. 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 fulltime employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total houss at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). 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 plece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

## (c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vicepresidents, comptrollers, secretarles, treasurers.
etc., 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 or 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 establishment but are not working at the establishment's location. These are gemerally 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.

## (e) 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 person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

## Salarles 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 salafies 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 maintenanc. 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 of 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 recelved as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchas ed. 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 ald 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 establishment 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. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

## to) Shipments of goods of own manufacture

These figures represent shipments of goods ande 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 or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture 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 manufac= turing 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 or 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 classiffcation, the
receipt of revised data, the inclusion of new establishments and the removal of establishments which did 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 materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).
(b) By non-manufacturing activities

The figures are compiled by deducting the the cost of goods purchased for resale (adjusted for changes in the value of inventories of goods
purchased for re-sale) and the cost of other 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 manifacturing 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 production. However, to arrive at the National Accounts concept of net production, or 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 DRS publication Catalogue No. 61-202, "'Survey of Production"

