DOMINION BijREA! OF STATISTECS

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# MANUFACTURERS OF ELECTRICAL INDUSTRIAL EQUIPMENT 

1963

ANNUAL CENSUS<br>OF MANUFACTURES

Published by Authority of

Industry Division

# MANUFACTURERS OF ELECTRICAL INDUSTRIAL EQUIPMENT 

 1963
#### Abstract

Data presented in this report under the heading of Manufacturers of Electrical Industrial Equipment 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 Explanatory Notes section of this report.

For statistical purposes the industry titled Manufacturers of Electrical Industrial Enuiment 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), generators, transformers, switchgear, pole-line hardware, lightning arresters, electric welding equipment, electric meters. Establishments primarily engaged in manufacturing electric wire and cable are in Industry No. 338 -Manufacturers of Electric Wire and Cable.


## SYMBOLS

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

- nil or zero.
-- amount too small to be expressed.
? preliminary figures.
${ }^{\mathrm{r}}$ revised figures.
$x$ confidential to meet secrecy requirements of the Statistics Act.

TABLE 1 A. Principal Statistics classified by Province, 1962 and 1963

| $\begin{aligned} & \text { Year } \\ & \text { and } \\ & \text { province } \end{aligned}$ | Estab118h ments | Manufacturing activity |  |  |  |  |  |  | Total activity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Production and related workers |  |  | Cost of Nel and electricily | Cost of materials and supplies | Value of shipments of goods of own manufacture | Value added | Working owners and partners |  | Total employees |  | Total value added |
|  |  | Number | Manhours pald | Wages |  |  |  |  | Number | Withdfawals | Number | $\begin{aligned} & \text { Selaries } \\ & \text { and } \\ & \text { wages } \end{aligned}$ |  |
|  | NO. |  | '000 |  |  | \$'000 |  |  |  | \$ ${ }^{\text {P }} 000$ |  |  | 00 |
| Totals | 98 | 9,856 | 21,382 | 43,786 | 2,365 | 86,555 | 218,951 | 128,640 | x | * | 16,558 | 82,493 | 135, $562^{\text {r }}$ |
| Newfoundland | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Prince Edward Island | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nova Scotia | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Brunswick ......................... | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Quebec | 15 | 1,128 | 2,381 | 4.271 | 233 | 8,627 | 21,606 | 12,772 | - | - | 1.751 | 7.877 | 13,378 |
| Ontasto | 79 | 9,556 | 20,588 | 45, 428 | 2,061 | 84,415 | 223.443 | 140,533 | I | x | 15,809 | 82,412 | . 144.698 |
| Manitoba | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| Sulskatchewan | 2 | \} 299 | 624 | 1,041 | 47 | 3,161 | 6.613 | 3,438 | - | - | 399 | 1.558 | 3.478 |
| Alberta ................................ | 4 | J |  |  |  |  |  |  |  |  |  |  |  |
| British Columbia | 7 | 150 | 365 | 764 | 30 | 2,332 | 4,462 | 2,006 | - | - | 233 | 1,286 | 2,014 |
| Yukonand Northwest Territories | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Totals | 103 | 11,131 | 23,909 | 51,504 | 2,371 | 88,555 | 256, 124 | 158.749 | * | * | 18, 182 | 93,133 | 163,568 |
| Newfoundland | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Prince Edwexd Iskend | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nova Scotla | - | - | - | - | - | - | - | - | - | - | - | - | - |
| New Brunswick | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Quebec ....................................... | 16 | 1. 114 | 2,323 | 4,485 | 239 | 8. 138 | 21.637 | 11.982 | - | - | 1,621 | 7.570 | 13.199 |
| Ontarlo | 80 | 10,675 | 22,708 | 51. 206 | 2,315 | 93.474 | 280, 103 | 284,263 | 5 | 28 | 17,368 | 92,095 | 169,421 |
| Menitobe .................................... | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| Buskarchewan | 2 | , 292 | 610 | 1.050 | 51 | 3,628 | 7.238 | 3,669 | - | - | 413 | 1,660 | 3.890 |
| Alberta | 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| British Columbla ...................... | 8 | 174 | 371 | 832 | 37 | 2, 555 | 5,114 | 2.638 | - | - | 276 | 1,485 | 2.653 |
| Yukin and Northwest Territories | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Totals ................................ | 112 | 12.255 | 26,011 | 57, 573 | 2,643 | 108,794 | 294,099 | 182,553 | 5 | 28 | 19,679 | 102, 750 | 189, 164 |

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

| Slze group | Estab lishments | Manufacturing activity |  |  |  |  |  |  | Total activity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Production and related workers |  |  | Cost of fuel and elec* tricity | Cost of materials and supplies | Value of shipments of goods of own manufacture | Value added | Working owners and partners |  | Total employees |  | Total value added |
|  |  | Number | Manhours paid | Wages |  |  |  |  | Number | Withdrewals | Number | Salarles and wages |  |
|  | No. |  | '000 |  |  | \$ 000 |  |  |  | * 000 |  |  |  |
| Under $\$ 10,000$...................... $\$ 10,000$ to $\$ 24,999$ | 7 | 17 | 30 | 53 | 3 | 163 | 222 | 84 | - | - | 28 | 96 | 93 |
| $\begin{array}{lll}25,000 & \text { \% } & 49,999 \\ 50,000 & 99,999\end{array}$ | 9 | 41 | 86 | 153 | 7 | 357 | 724 | 401 | * | * | 58 | 217 | 417 |
| 100,000 - 199.999 | 9 | 65 | 129 | 196 | 7 | 690 | 1,282 | 627 | - | - | 91 | 316 | 638 |
| 200,000 \% 499,999 | 21 | 318 | 660 | 1,111 | 60 | 2.833 | 6,199 | 3,309 | - | - | 506 | 2,119 | 3. 736 |
| 500,000" 999,999 | 15 | 669 | 1.343 | 2,163 | 108 | 5,445 | 10,909 | 5,390 | - | - | 950 | 3.439 | 5,749 |
| 1,000,000 ' ${ }^{\text {/ 4,999,999 }}$ | 31 | 3,149 | 6,902 | 12,891 | 592 | 35,779 | 74,583 | 40,133 | - | - | 5,075 | 23,156 | 41,851 |
| 5,000,000 and over | 11 | 6.872 | 14,759 | 34,938 | 1,594 | 53,289 | 162,204 | 108,805 | - | - | 11.115 | 61.158 | 109,866 |
| Head offices, sales offices and auxiliary units |  |  | ... |  |  |  | . . . |  | *.. | ... | 369 | 2,631 | 1,218 |
| Totals | 103 | 11,131 | 23,909 | 51, 504 | 2,371 | 98,555 | 236, 124 | 158, 749 | * | * | 18,192 | 93,133 | 163, 568 |
| 1963 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Under } \$ 10,000 \\ & \$ \quad 10,000 \text { to } \$ 24.999 \end{aligned}$ |  | 7 | 14 |  | 1 | 29 | 70 | 48 | - | - | 10 | 28 | 48 |
|  | , | 21 | 44 | 70 100 | 18 | 156 | 167 <br> 57 | -2 | 2 | 8 | 34 | 128 | 40 298 |
|  | 13 | $\begin{aligned} & 32 \\ & 91 \end{aligned}$ | $\begin{aligned} & 65 \\ & 188 \end{aligned}$ | 100 | 5 | 250 |  | 278 886 | 3 | 21 | 478189 | 166 536 | 888 |
| $\begin{array}{ll}100.000 & \cdots \\ 200,000 & 199,999 \\ & 499,999\end{array}$ | 13 21 | 401 | 188 | $\begin{array}{r}100 \\ 1.357 \\ \hline\end{array}$ | 117 | 879 3,433 | 1,759 | $\begin{array}{r}878 \\ 3,884 \\ \hline\end{array}$ | - | - | 128 | + 536 |  |
| 500,000 "/ 999.999 | 18 | 623 | 1.300 | 2,307 | 140 | 6,416 | 12,926 | 6,620 | - | - | 853 | 3.556 | 7,098 |
| 1,000,000 " 4,999,999 ........... | 32 | 3.426 | 7,196 | 13,636 | 662 | 36,753 | 79.392 | 41.122 | - | - | 5.331 | 24.525 | 43, 844 |
| 5,000,000 and over ....... | 12 | 7.654 | 16,389 | 39,752 | 1,707 | 60,876 | 192.235 | 129,762 | - | - | 12,334 | 69,132 | 131,874 |
| Head offices, sales offices and auxiliary units. |  |  |  |  |  |  |  |  |  |  | 297 | 2,018 | 668 |
| Totals | 112 | 12,255 | 26,011 | 57, 573 | 2,643 | 108, 784 | 294,099 | 182,553 | 5 | 28 | 19.679 | 102,750 | 189.164 |

TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value idded, 1962 and 1963

| Size group | Estab-lishments | 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 |  | Total employees |  | Total value added |
|  |  | Number | Manhours paid | Wages |  |  |  |  | Number | Withdrawals | Number | Salaries and wages |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Under $\$ 10,000$ | 4 | 11 | 18 | 26 | 3 | 75 | 102 | 32 | $\chi$ | x | 17 | 48 | 42 |
| \$10,000 to \$ 24,999 ........... <br> 25,000 . |  | 11 29 | 18 24 57 | 48 110 | 1 5 | 172 429 | 247 660 | $\begin{array}{r}95 \\ \hline 25 \\ \hline 8\end{array}$ |  | * ${ }^{-}$ | 17 50 | $\begin{array}{r}78 \\ 182 \\ \hline 1\end{array}$ | 272 |
| 50,000 - 99,999 | 12 | 97 | 206 | 338 | 13 | 869 | 1,780 | 853 | * | - | 136 | 551 | 863 |
| 100,000 " 199,999 | 18 | 281 | 571 | 982 | 63 | 2.701 | 5,644 | 2,753 | - | - | 439 | 1,834 | 2,997 |
| 200,000 " 499,999 | 17 | 661 | 1,336 | 2. 153 | 102 | 6. 054 | 12,070 | 6.125 | - | - | 949 | 3.491 | 6,675 |
| 500,000" 999,999 .......... | 16 | 995 | 2,165 | 3,916 | 169 | 13,680 | 25,715 | 12, 221 | - | - | 1.608 | 7.086 | 12,939 |
| 1,000,000 ${ }^{\prime \prime}$ 4,999,999 .......... | 19 | 3,472 | 7,463 | 14.715 | . 747 | 33,993 | 77,957 | 44,412 | - |  | 5, 801 | 27,922 | 46,008 |
| 5,000,000 and over ........ | 6 | 5,573 | 12.069 | 29,217 | 1,268 | 40.583 | 131.949 | 92,002 | - | - | 8,806 | 49.317 | 92,462 |
| Head offices, sales offlces and guxiliary unite |  |  |  |  |  |  |  |  |  |  | 369 | 2,631 | 1.218 |
| Totals | 103 | 11,131 | 23, 909 | 51,504 | 2,371 | 98, 555 | 256, 124 | 158, 748 | k | * | 18,192 | 93,133 | 163, 568 |
| 1963 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 98 101 |  |  |  |  |  |  |
| $\begin{array}{lll}\text { \$ } \quad 10,000 \text { to } & & 24,999 \\ 25,000 \text { 14 } & 49,999\end{array}$ | 11 | 11 <br> 54 | 22 110 | $\begin{array}{r}38 \\ 194 \\ \hline\end{array}$ | 1 |  | 1.138 | 371 | 3 | 21 |  | 344 |  |
| 50,000 ${ }^{\text {r }}$ 99,999 | 10 | 62 | 129 | 241 | 13 | 576 | 1.237 | 628 | - |  | 89 | 371 | 628 |
| 100,000 " 199,999 ........... | 15 | 262 | 518 | 927 | 72 | 2.818 | 5,300 | 1.935 | - |  | 430 | 2,010 | 2.802 |
| 200,000 " 499,999 | 24 | 789 | 1.642 | 2,800 | 186 | 7. 776 | 15.220 | 7.716 | - |  | 1,129 | 4,737 | 8,546 |
| 500,000" 999,999 | 14 | 947 | 1,968 | 3.501 | 146 | 10,178 | 20.521 | 10,409 | - | - | 1,445 | 5,895 | 11,009 |
| 1,000,000 ${ }^{\text {O }}$ 4,999,999 | 23 | 3.755 | 7,873 | 15,865 | 781 | 37,652 | 87. 568 | 48,834 | - | - | 5.911 | 28,735 | 50.964 |
| $5.000,000$ and over ....... | 7 | 6,366 | 13.732 | 33,982 | 1,434 | 48,912 | 162.916 | 112.579 | - | - | 10,263 | 58,543 | 114,024 |
| Head affices, sales offices and auxillary units |  |  |  |  |  |  |  |  |  |  | 297 | 2.018 | 668 |
| Totals | 112 | 12,255 | 26,011 | 57.573 | 2,643 | 108,794 | 294, 099 | 182, 553 | 5 | 28 | 19,679 | 102,750 | 189, 164 |

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

| Size group | Estab lishments | Manufacturing metivity |  |  |  |  |  |  | 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 sdded | Working owners and partners |  | Total mploy ees |  | Total value sdded |
|  |  | Number |  | Wages |  |  |  |  | Number | Withdraw | Number | Salaries and wages |  |
|  | No. |  | *000 |  |  | \$'000 |  |  |  | \$'000 |  | $\${ }^{1} 0$ |  |
| Under \$10,000 | 4 | 11 | 18 | 26 | 3 | 75 | 102 | 32 | - | - | 17 | 48 | 42 |
| - 10,000 to \$ 24,989 | 5 | 11 | 24 | 48 | 1 | 172 | 247 | 95 | x | x | 17 | 70 | 81 |
| 25,000 " 49,991 | 6 | 28 | 57 | 110 | 5 | 429 | 860 | 257 | - | - | 50 | 182 | 272 |
| 50,000 * 99.999 | 12 | 97 | 206 | 338 | 13 | 869 | 1. 780 | 853 | X | I | 136 | 551 | 863 |
| 100,000" 199,998 | 18 | 281 | 571 | 982 | 63 | 2.701 | 5,644 | 2.753 | - | - | 439 | 1,834 | 2.997 |
| 200,000 $\quad 499.999$ | 17 | 682 | 1.336 | 2.153 | 102 | 6.054 | 12.070 | 6. 125 | - | - | 848 | 3.481 | 6,675 |
| $500.000 \cdots \quad 989,998$ | 16 | 995 | 2,165 | 3,916 | 169 | 13,680 | 25.715 | 12.221 | - | = | 1,808 | 7.088 | 12.939 |
| 1,000,000 " 4,999,999 | 19 | 3.472 | 7. 463 | 14.715 | 747 | 33,993 | 77.957 | 44, 412 | - | - | 5, 801 | 27.922 | 46,008 |
| 5,000,000 and over ....... | 6 | 5,573 | 12.069 | 29.217 | 1.268 | 40.583 | 131.949 | 92,002 | - | - | 8,806 | 49.317 | 82,462 |
| Head offices, sales oftices and auxillary units |  | ... | ... | ... | ... | ... | * . |  |  | -•• | 368 | 2,631 | 1,218 |
| Totals | 103 | 11,131 | 23,909 | 51,504 | 2,371 | 98,555 | 256, 124 | 158, 748 | x | x | 18.192 | 93,133 | 163,568 |
| Under $\$ 10,000$ | 3 7 | 13 | 26 | 44 | 2 | 77 | 161 | 79 | 2 | 8 | 22 | 69 | 89 |
| $\begin{array}{ll} 25,000 & 49,999 \\ 50,000 & 99,998 \end{array}$ | 10 | 52 | 107 | 176 279 | 5 17 | 679 703 | 968 1,445 | 291 | 3 | 21 | 74 108 | 277 465 | 317 744 |
| 50,000  <br> 100,000  <br> 199,989  | 12 | 190 | 374 | 584 | 41 | 1.717 | 1,4482 | 1.783 | - | - | 271 | 1.021 | 1.824 |
| 200,000 ${ }^{\text {10, }} \quad 499.999$ | 24 | 720 | 1.504 | 2,573 | 170 | 7.332 | 14,398 | 7.290 | - | - | 1,065 | 4.493 | 7,861 |
| $500.000{ }^{\text {a }}$ 999,999 | 16 | 1.009 | 2,086 | 3,764 | 183 | 10,548 | 21,100 | 10.137 | - | - | 1. 520 | 6,432 | 11,686 |
| 1,000,000 " 4,998,998 | 24 | 3,834 | 8,037 | 16,172 | 791 | 38.827 | 89, 630 | 49,684 | - | - | 8, 059 | 29,432 | 51,960 |
| 5,000,000 and over ....... | 7 | 6.366 | 13,732 | 33, 982 | 1.434 | 48.912 | 162,916 | 112.579 | - | - | 10.263 | 58,543 | 114,024 |
| Head offices, sales offices and muxiliary units |  |  |  |  |  |  |  |  |  | ... | 297 | 2,018 | 668 |
| Totals | 112 | 12.235 | 26.011 | 57,573 | 2,643 | 108,794 | 294, 099 | 182,553 | 5 | 28 | 19,679 | 102,750 | 189, 164 |

TABLE. LE. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

| Size group | Estab lish ments | Manufacturing activity |  |  |  |  |  |  | Total activity |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Production and related workers |  |  | Cost of fuel and slectricity | Cost of materials and supplies | Value of shipments of goods of own manufacture | Value added | Working owners and partners |  | Total employees |  | Total value added |
|  |  | Number | Manhours pald | Wages |  |  |  |  | Number | Withdrewals | Number | Selaries and wages |  |
|  | No. |  | ${ }^{\prime} 000$ |  |  | \$'000 |  |  |  | \$'000 |  | $8{ }^{\prime}$ |  |
| Under 5 employed | 6 | 10 | 20 | 34 | 3 | 184 | 360 | 191 | - | - | 18 | 70 | 192 |
| 5-14 employed | 21 | 111 | . 221 | $\begin{array}{r}417 \\ \hline\end{array}$ | 18 | 1,400 | 2.658 | 1.376 | x | x | 166 | 860 | 1.433 |
| $15-49$ \% | 28 | 551 | 1.188 | 2,152 | 109 | 7,075 | 14,068 | 6.571 | - | - | 776 | 3.411 | 6. 827 |
| 50-99 | 16 | 790 | 1. 692 | 2,907 | 110 | 9,060 | 17,198 | 8,570 | - | - | 1.228 | 5.178 | 9,055 |
| 100-199 | 11 | 1.010 | 2.180 | 3,998 | 224 | 12,653 | 23,677 | 11.068 | - | - | 1.637 | 7.250 | 12.059 |
| 200-499 " | 13 | 2,458 | 5,230 | 9,944 | 497 | 22. 183 | 52,699 | 31,663 | - | - | 3.969 | 18,031 | 32,939 |
| 500 employed and over | 8 | 6,201 | 13.377 | 32,053 | 1.409 | 46,000 | 145,464 | 99,310 | - | - | 10.029 | 55.901 | 99,645 |
| Head offices, sales offices and abxillary units | . | ... | ... |  | ... |  | ... | ... | ** | * . | 389 | 2,631 | 1.218 |
| Totals | 103 | 11. 131 | 23,909 | 31,504 | 2,371 | 98,555 | 256, 124 | 158, 748 | x | 5 | 18,192 | 93,133 | 163,568 |
| Under 5 employed. | 8 8 | 187 | 32 285 | 52 480 | 23 | 178 | - 463 | - 277 | 2 | 8 | 22 | 76 | 277 |
| 5-14 employed | 23 | 127 | 265 | 480 | 23 | 1,616 | 2,892 | 1,244 | 3 | 21 | 196 | 801 | 1.318 |
| 15-48 | 24 | 460 | 968 | 1.746 | 116 | 5,465 | 10,908 | 5,655 | - | - | 685 | 3,006 | 5,832 |
| $50=99$ | 21 | 908 | 1.879 | 3,304 | 204 | 9,332 | 18.651 | 8,946 | - | - | 1,328 | 5,771 | 10.632 |
| 100-199 | 13 | 1,107 | 2,388 | 4.839 | 207 | 18,069 | 33.863 | 16,049 | - | - | 1,781 | 8,880 | 16.523 |
| 200-499 | 15 | 2.813 | 5.819 | 11.232 | 601 | 22,820 | 58,319 | 34.072 | - | - | 4.451 | 20.424 | 36,116 |
| 500 employed and over | 8 | 6,824 | 14,661 | 35,920 | 1.487 | 51,313 | 169,003 | 116,309 | - | - | 10.919 | 61,774 | 117,798 |
| Hend offices, sales offices and uaxiliary units | . . | ... | ... | ... |  |  |  | ... |  | * * | 287 | 2,018 | 666 |
| Totals | 112 | 12,253 | 26,011 | 57, 573 | 2,643 | 108.794 | 294, 099 | 182, 553 | 5 | 28 | 19,679 | 102, 750 | 189, 164 |

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


TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

|  | Manufacturing activity |  | Non-manufacturing activities |  | Total activity |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1962 | 1963 | 1962 | 1963 | 1962 | 1963 |
|  | \$'000 |  |  |  |  |  |
|  | 256, 124 | 294,099 | 34,713 | 39,631 | 290, 837 | 333,730 |
| Inventories - Goods of own manufacture: |  |  |  |  |  |  |
| Add closing - Coods in procass | 24,985 | 22, 813 | . . | ... | 24,985 | 22,813 |
| Finished goods | 18,714 | 23,615 | ... | $\ldots$ | 18,714 | 23,615 |
| Less opening - Goods in process | 22,354 | 26,292 | ... | -.. | 22. 354 | 26, 292 |
| Finished goods | 17,795 | 20,245 | $\ldots$ | $\ldots$ | 17,785 | 20.245 |
| 2. Net inventory change | 3,550 | (109) | . . | ... | 3. 550 | ( 109) |
| 3. Gross output ( $1+2$ ) | 259,675 | 293,990 | 34,713 | 39.631 | 294,388 | 333,621 |
| Input |  |  |  |  |  |  |
| 4. Purchases of goods not of own manuracture ........................ | $\because \cdot$ | $\ldots$ | 28,634 | 31,283 | 28,634 | 31.283 |
| Inventories - Goods not of own manufacture: |  |  |  |  |  |  |
| Add opening ................................................................. | $\ldots$ | $\ldots$ | 2,089 | 2,539 | 2,089 | 2,539 |
| Less closing ................................................................ | $\cdots$ | $\ldots$ | 2,476 | 2,492 | 2,476 | 2, 492 |
| 5. Cost of goods sold (not of own manufacture) ...................... | . |  | 28,247 | 31,330 | 28,247 | 31.330 |
| 6. Materials, supplies, components and semi-processed goods | 98,555 | 108,794 | 1.847 | 1,647 | 100, 202 | 110,441 |
| 7. Fuel and electricity .......................................................... | 2,371 | 2,643 | . . . | 42 | 2,371 | 2,645 |
| 8. Gross Input ( $5+6 \uparrow 7$ ) | 100,926 | 111,437 | 28,894 | 33,019 | 130, 820 | 144,4iti |
| Census value added (3-8) ...................................... | 158,749 | 182,553 | 4,819 | 6.612 | 163, 568 | 189, 164 |

TABLE 3. Employment and Payroll, 1962 and 1963


TABLE 3 A. Production and Aelated Workers, - Manufacturing Activity, by Months, 1962 and 1983

| Month | Esteblishments reporting monthly detail |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 1962 |  | 1983 |  |
|  | Male | Female | Male | Female |
|  | number |  |  |  |
| January | 8,450 | 1,681 | 9.594 | 1,993 |
| February | 8,564 | 1,684 | 9,593 | 1,996 |
| March ... | 8,713 | 1,651 | 9,650 | 2,011 |
| Aprll | 8.798 | 1,684 | 9,696 | 1.991 |
| May ............................................................................................................................................. | 8, 987 | 1,699 | 9.718 | 1,970 |
| June | 9,204 | 1,775 | 10,081 | 2,097 |
| July ..................................................................................................................................... | 9,236 | 1,772 | 10,058 | 2. 066 |
| August | 9, 370 | 1,781 | 10, 165 | 2. 099 |
| Septembet .................................................................................................................................... | 9,438 | 1,822 | 10,119 | 2,138 |
| October .................................................................................................................................. | 9,390 | 1.738 | 9.983 | 2,087 |
| November | 9,455 | 1,749 | 9.837 | 2,085 |
| December .......................................................................................................................... | 9,392 | 1,827 | 9.840 | 2. 118 |
| Average for establishments reporting monthly detall (collected only for large establishments) | 9.090 | 1,741 | 9,973 | 2.056 |
| Average for small establishments (only annual averages collected) ....................................... | 219 | 81 | 104 | 122 |
| A verage for all establlshments ........................................................................................................... | 9,309 | 1,822 | 10,077 | 2. 178 |

TABLE 4. Industry Inventories, 1963

| Province |
| :--- |

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

| TABLE 5. Purchased Fuel and Electricity |
| :--- |
| Description |

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

| Desoription | 1962 |  | 1963 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Cost | Quantity | Cost |
|  |  | \$,000 |  | \$'000 |
| 1. Materials used: |  |  |  |  |
| Aluminum: |  |  |  |  |
| Castings .............................................................................................................. ib. l $^{\text {b }}$ | 1,271,491 | 932 | 2, 096,965 | 1,372 |
| Wire rods ............................................................................................................... " | 132.796 | 87 | 125,097 | 85 |
| Sheets and strip .................................................................................................... ${ }^{\text {e. }}$ | 585, 368 | 330 | 749,891 | 432 |
| Other | ... | 832 | ... | 626 |
| Brass and bronze: |  |  |  |  |
| Castings ............................................................................................................................. lb . | 1,334,921 | 1,070 | 1,522,159 | 1,159 |
| Wire rods ............................................................................................................... ..$^{\text {. }}$ | 287, 802 | 170 | 314,707 | 194 |
| Sheets and strip ..................................................................................................... " | 380,634 | 253 | 392,830 | 257 |
| Other | ... | 181 | ... | 188 |
| Copper: |  |  |  |  |
| Wire rods ............................................................................................................. Ib. Ib $^{\text {. }}$ | 875, 374 | 624 | 2,531,746 | 1,294 |
| Sheets and strip ..................................................................................................... " | 1,855,912 | 1.085 | 1.767.743 | 1,061 |
| Tubing and pipe .................................................................................................... ${ }^{\text {. }}$ | 341,039 | 220 | 383,015 | 225 |
| Wire, enamelled ........................................................................................................ . ${ }^{\text {. }}$ | 8,413,464 | 5, 905 | 9,281, 230 | 6. 514 |
| Wire, other insulated | ... | 4,271 | ... | 3, 984 |
| Other | $\ldots$ | 2, 459 | . . | 2,679 |
| Insulating varnishes, japans, enamels and lacquers | ... | 353 | ... | 403 |
| Insulators, porcelain and glass | - | 2,175 | -.. | 2, 665 |
| Iron and steel (except alloy): |  |  |  |  |
| Castings: |  |  |  |  |
| Iron .................................................................................................................. ton | 5,568 | 2. 526 | 6. 187 | 2.557 |
| Steel ................................................................................................................... " | 1.242 | 898 | 4,401 | 1.042 |
| Steel bars and rods | 15,470 | 2, 548 | 17,206 | 2.955 |
| Steel sheets and strip: |  |  |  |  |
| Plaln ................................................................................................................... " | 31,707 | 4,848 | 29,631 | 5.452 |
| Galvanized ........................................................................................................... " | 288 | 51 | 409 | 76 |
| Steel wlre | 860 | 200 | 1.549 | 241 |
| Structural steel | 4,554 | 770 | 3,358 | 616 |
| Other (except alloy) ................................................................................................ | ... | 878 | ... | 957 |
| Alloy steel: |  |  |  |  |
| Stalntess | ... | 330 | - | 639 |
| Silicon sheets and strips ........................................................................................... ton | 27, 243 | 9,990 | 26.531 | 11, 148 |
| Other alloy including tool steel | . . | 581 | $\ldots$ | 296 |
| Lead ............................................................................................................................. Ib. | 330,563 | 60 | 338,811 | 84 |
| Mica ................................................................................................................................$^{\text {e. }}$ | 87, 239 | 103 | 173, 728 | 165 |
| Motors, electric: |  |  |  |  |
| Under 1 h.p. ................................................................................................................................ | 12,480 | 92 | 14.920 | 173 |
| 1 h.p. and over a.c. or d.c. ....................................................................................... ${ }^{\text {a }}$ | 2. 121 | 38 | 280 | 25 |
| Paints, Btalns, lacquers ............................................................................................ | ... | 433 | . | 512 |
| Resins, synthetlc | ... | 649 | . . | 721 |
| Resistance wire, ribbon and strip .............................................................................. lb. | 11,575 | 21 | 85, 511 | 96 |
| Sulphuric acid ............................................................................................................$^{\text {. }}$ | 439.440 | 19 | 297, 673 | 7 |
| All other materiais and components used ${ }^{2}$.................................... | ... | 46.619 | ... | 52.003 |
| 2. Containers and other packaging materlals and supplies used ......................................... | ... | 1.578 | -.. | 1.491 |
| 3. Operating, malntenance and repair supplies used (excluding fuel) .................................. | ... | 3.708 | . $\cdot$ | 3,736 |
| 4. Amount paid out to others for work done on materials owned by establishments ................ | $\cdots$ | 668 | ... | 662 |
| Totals ................................................................................................................. | - . | 98,555 | . . | 108. 794 |

${ }^{1}$ No detailed information on materials used was collected from small establishments, the estimated costs for which are included bere. These estimated custs were $\$ 2,690,000$, in 1962 and $\$ 516,000$ in 1983.

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

| Description | Value |  |
| :---: | :---: | :---: |
|  | 1962 | 1963 |
|  | \$'000 |  |
| 1. Products: |  |  |
| Electrical industrial equipment: |  |  |
| Industrial control equipment | 28,412 | 31. 187 |
| Converter equipment | 7.755 | 3,633 |
| Electric generators and parts | 7.181 | 15,632 |
| Electric motors and parts | 39.761 | 48.911 |
| Transformers and parts | 57.639 | 71.152 |
| Electrical switchgear and protective equipment (except telephone switchhoards) ..................................... | 43,965 | 46,163 |
| Electric welding apparatus and welding rod | 6. 104 | 8,000 |
| Cutouts and fuses | 2,578 | 2,986 |
| Instruments and meters | 10,422 | 11,888 |
| Pole line hardware | 7.752 | 8,225 |
| Miscellaneous electrical equipment: |  |  |
| Industrial electric heating equipment | 754 | 639 |
| Lighting equipment | 1,293 | 1.528 |
| Telecommunication equipment other than domestic radio and television receiving sets ........................... | 6,832 | 2,897 |
| Rectifiers (other than power) (semi-conductor and/or electron tube type) (see Table 8H) .......................... | . | 1,692 |
| Miscellaneous electrical products | 2,133 | 2,169 |
| All other products......................................................................................................................................... | 30, $392^{\text {r }}$ | 36,143 |
| 2. Amount received in payment for work done on materials and products owned by others ..................................... | $1.141^{\text {r }}$ | 910 |
| Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above $\qquad$ | (2,188) | 364 |
| Net adjustment for establishments receiving progress payments .................................................................... | 4,198 | - |
|  | 256,124 | 294,099 |

TABLE 8. Shipments of Selected Goods of Own Manufacture-All Industries (Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)
A. Electric Generators and Parts, 1962 and 1963

| 1tem | 1962 |  |  | 1983 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Total rating | Value | Number | Total rating | Value |
|  |  |  | \$'000 |  |  | \$'000 |
| A.c. generators (except for vehicle and marine use) Including horizontal water-wheel driven synchronous generators but not including vertical water-wheel synchronous generators: |  |  |  |  |  |  |
| Up to and including 100 kw . ...................................................................................... |  |  |  |  |  |  |
| 101 to 500 kw . |  |  |  |  |  |  |
| 501 to $1,500 \mathrm{kw}$. | 12 |  | 202 | 67 | 87.575 | 1,172 |
| 1.501 and above.. |  |  |  |  | 97.575 |  |
| A.c. vertical water-wheel driven generators, all ratings | 8 | . | 5, 253 |  |  |  |
| Accessorles and parts for a.c. generators |  |  |  | . | . . | 13.114 |
| Steam or gas turbo-driven a.c. generators $5,001 \mathrm{kw}$, and above |  |  |  |  |  |  |
| Totals ....................n..na, ............................................................................................. | ... | ... | 7.182 | ... | ... | 15.433: |

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Continued
B. Electric Motors ${ }^{2}$ and Parts, 1962 and 1963


See rosonotes at end of table.
C. Transformers, by Types, 1962 and 1963

| Type | 1962 |  |  | 1863 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Total rating | $V$ alue | Number | Totel rating | Value |
|  |  | kva. | \$'000 |  | kva. | \$'000 |
| Illetitbution transformers - Dry type up to and including 200 kva . 1 phase, 15 kv , and below; except dry type transformers 2 kva. and below $\qquad$ | 7.723 | 201.549 | 2,249 | 7.824 | 335,187 | 2,240 |
| Distribution transformers - Dry type up to and dncluding 225 kva .3 phase, 15 kv , and below: except dry type transformers 1 kva. and below | 2,085 | 118, 252 | 1,537 | 5,143 | 148.911 | 2,359 |
| !istribution transformers - Liquid fllled type, up to and Including 200 kva. 1 phase, 15 kv . and below $\qquad$ | 49,508 | 1,311,684 | 12,980 | 51.730 | 1,391,448 | 12,902 |
| Distribution transformers - Liquid filled type, up to and Including 225 kva. 3 phase. <br> 15 kv , and below | 1.122 | 67,708 | 832 | 1.476 | 272,698 | 1,787 |
| Power transformers $7,500 \mathrm{kva}$. and less, up to and including 138 kv , class ............... | 1.530 | 2,225,068 | 10,383 | 1,688 | 3,756,871 | 12,668 |
| p'user transformers above $7,500 \mathrm{kva}$, at all voltages, also all kva, ratings in voltages ubove 138 kv . class. | 134 | 8,094,332 | 11.059 | 201 | 9,662,933 | 18,218 |
| F'eeder regulators: <br> Single phase step voltage regulators <br> Three phase step voltage regulators with 750 kva of regulation or less | \#. | -. | $\begin{aligned} & 491 \\ & 336 \end{aligned}$ | 132 25 | $\begin{aligned} & 4.532 \\ & 9,107 \end{aligned}$ | $\begin{array}{r} 377 \\ 342 \end{array}$ |
| Current transformers: <br> It to and Including 15 kv . $\qquad$ thove 15 kv . $\qquad$ | 27.304 | . | 1.325 | 30,039 | . . | 1,504 |
| forentlal transformers: <br> I'p to and including 15 kv . $\qquad$ <br> Above 15 kv . $\qquad$ | 8,207 | " | 1,385 | 8,645 | . . | 1.024 |

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Continued
C. Transformers, by Types, 1962 and 1963 - Concluded

| Type | 1962 |  |  | 1963 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Total ratling | Value | Number | Tatal rating | Value |
|  |  | kva. | \$'000 |  | kva. | \$'000 |
| Metering autfits (combination of current and potential transformers in one enclosure): Up to and including 15 kv . <br> Above 15 kv . | 597 | -• | 470 | 526 | . | 527 |
| Luminous tube transformers ........... |  |  |  |  |  |  |
| Ignition transformers (oill and gas). | ) | $\cdots$ | 1.857 | - | - | 2,009 |
| Radio and TV transformers: <br> Air core |  |  |  |  |  |  |
| Air core ${ }_{\text {Powdered }}$ iron and ferrite core | \} 1,494,708 | * | 1. 462 | 1,735,617 | - | 1.191 |
| Laminated core .................. | 3,038,237 | - | 3, 063 | 2,193,691 | . | 3,219 |
| Transformers for electronic equipment (other than radio and TV) | 383,272 | - | 1,978 | 280,920 | - | 1.830 |
| Fluarescent transformers and ballasts | 2,285,061 | ** | 10.270 | 2.026. 263 | . | 11.899 |
| Mercury lamp transformers. | 61,367 | . | 1.777 | 64.805 | . | 2. 153 |
| Bell ringing and chime transformers | - | - | - | - | - | - |
| Control and signalling transformers. | 60,511 | - | 481 | 63, 793 | -. | 529 |
| Ceneral purpose dry type transformers, up to and including 2 kva . | - | - | 1 | - | - |  |
| All other transformers | $\cdots$ | $\cdots$ | 4,846 | . | . | 5,466 |
| Parts and supplles for transformers | - | * | 1. 198 | . . | -• | 1,591 |
| Totals .................................................................................................................. | ... | , | 69,989 | $\cdots$ | $\ldots$ | 83, 836 |

D. Electrical Switch Gear and Protective Equipment (Except Telephone Switchboards), 1962 and 1963


[^0]I ABIE 8. Shipments of Selected Goods of 0 wn Manufacture - All Industries - continued
E. Electric WeIding Apparatus and Welding Rod. 1954-63

F. Industrial control Equipment, 1962 and 1963

| Item | Value |  |
| :---: | :---: | :---: |
|  | 1962 | 1963 |
|  | \$000 |  |
| A. . . single phase and d.c. full voltage fractional horsepower low voltage manual starting switches including horsepower :ated snay switches 1 h.p., 250 v. max, | 541 | 546 |
| A. 3 , and d.c. full voltage singie phase and 3 phase integral horsepower manual low voltage starters $71 / 2 \mathrm{~h} . \mathrm{D} .0600 \mathrm{v}$. max. | 667 | 687 |
| A. (full voltage single speed and multispeed low voltage magnetic line starters size 0 and up, for squirrel cage motors. ${ }^{6} 00 \mathrm{~V}$. max. (ampere rated starters for hermetic motors not included) | 4. 092 | 4. 546 |
| A. . . low voltage magnetic contractors size 0 and up, and a.c. or d.c. magnetic multipole relays including single-voltage, Fouble-voltage and timing relays and thermal and magnetic relays intended for starting and runing protection of motors. 500 v . max. (thermal overload relay heaters fumished separately not included) | 2. 025 | 2.410 |
| A.t. reduced voltage manual low voltage starters for squirrel cage motors, 60 ) $v$. max. (synchronous and wound-rotos motor antrollers not included) | 250 | 534 |
| 1.2. reduced voltage magnetic low voltage starters for squirsel cage motors, auto-transformer, resistor, reactor, partwinding and wye-delta types, 600 v . max. (synchronous, bermetic and wound-rotor motor controllers not included) | 443 | 476 |
| A $\alpha$ full voltage and reduced voltage ampere-rated low voltage controllers for hermetic motors, 600 v , max. ..................... | 141 | 143 |
| A. it motor control centres consisting of factory assembled groups of low voltage comblination magnetic starters, 600 v , max. (self-standing starter trecks and assemblies not included) | 4,554 | 5,154 |
| A.1. high voltage class $\mathrm{E}-1$ and $\mathrm{E}-2$ induction and synchronous motor controllers, $5,000 \mathrm{v}$, max. Incorporating short Sircuit current interrupting means higher than 10 times contactor ampere sating | 1.462 | 1.554 |
| 4.3. low-voltage and unfused high voltage synchronous motor controllers and field panels ............................................. | 107 | 75 |
| A.: combined motor drives including mine hoist and paper-machine drives and liquid theostats (packaged adjustable voltage drives not included) | 325 | 373 |
| Alt other a.c. motor control equipment including a, c. machlne tool control and general purpose parels, wall, Noor or machine mounted, conslsting of grouped general purpose components, devices and starters; racked group control: a.c. magnetic crane and traffic bridge control and a.c. crane protective panels; a.c. magnetlc low voltage and unfused high voltage wound-fotor motor control including magnetic secondary panels; a.c. high voltage contactors; low voltage firepump tontrol: static adjustable valtage drives having static power converslon components; all other a, c. magnetic control n.o.b. all push buttonand indicating light stations larger than ordinarily listed by manufacturers. (Packaged adjustable voltage irives with rotating amplifiers and/or fotating converters, mine hoist drives and motor control centres not included) | 2. 385 | 2.566 |
| 1. . . low voltage magnetic contactors, controllers, starters and time starters including d.c. magnetic machine tool control, d.c. magnetic crane and traffic bridge control, d.c. crane protective panels, d.c. mill auxiliaries, and all other d.c. magnetic control n.o.p. (mine holst drives not included) | 544 | 698 |
| 1... mine and mill comblned drives including steelmill, paper machine and rubber-mill drives, and statlc electronic and semianductor rectifier drives (d.c. mill auxiliarles not included) | - | - |
| A.:. and $\mathrm{d}_{\mathrm{c}} \mathrm{c}_{\mathrm{s}}$ drum and cam switches and controllers, dial starters and theostats and motor starting and speed controlling resistors mounted separately | 461 | 429 |
| Brakes with a.c. colls or d.c. colls, their clutches and actuators .................................................................................. | 242 | 126 |
| P: shbutton andindicating light stations up to maximum grouping ordinarily listed by manufacturers, and pushbutton and indlsating light components (not including pushbutton and Indicating light stations) | 1,494 | 1.693 |
| :wim switches and all other pllot control equipment Including pressure, vacuum, temperature, and liquid-level switches, blugging switches, speed switches, solenolds and terminal blocks. (Linestarter modification kits, pilot devices used in appliances, alr-conditioning, refrigeration, heating and domestic installations not included) | 1.025 | 1.218 |
| Rusistance welding and electronic control equipment including electonic and static control assemblles, electronic and static magnetic amplifiers, electronic relays, phatoelectric controllers, voltage, speed, followup, position, inspection and Lauging appapatus and solid-ritate control devices. (Packaged static adjustable voltage drives not included). $\qquad$ | 1.318 | 1,322 |
| Rumewal parts for industrial control equipment including modificatlon, accessory and repair kits and separately furnished overload relay heaters | 1.812 | 2,559 |
| Aif other Industrial control equipment ............................................................................................................................ | 4.879 | 5, 228 |
| Totals | 28.868 | 32,338 |

see footiontes at ond of tahle.

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Gousiact G. Cutouts and Fuses, 1962 and 1963

H. Converter Equipment, 1962 and 1963

| Type | 1962 |  |  | 1983 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Total rating | Value | Number | Total rating | V alue |
| Motor-generator sets up to and Including 150 kw . -laduction and synchronous types (Including frequency changers) | 2,836 |  | $\$ \times 00$ 990 | 124 | kv. 5. 783 | $\$ 7000$ |
| Motor-generator sets larger than 150 kw . - Induction and synchronous types (including frequency changers) | 50 | 58. 295 | 3, 401 | 27 | 27,984 | 1. 271 |
| Mercury arc power rectifier and excitation cubicles (does not include associated switchgear or transformers) |  |  |  |  |  |  |
| Semi-conductor power rectifier equipment including plate and crystal junction types (does not include associated switchgear, transformers or commerclal battery chargers): <br> 5 kw . to 50 kw . $\qquad$ <br> Over 50 kw . | $\cdots$ | .. | 2. 965 | .. | . | 1,567 |
| Parts and supplies for converter equlpment .......................................................................... | . $\cdot$ | ... | 399 | . . | . $\cdot$ | 276 |
| Totals of above items ........................................................................................................ | - | - | 7.755 | - | - | 3,633 |
| Rectifiers for storage battery charging (semi-conductor and/or electron tube type).......n.es. | - | - | 2,062 | - | - | 2. 147 |

I. Watt-hour Meters, 1954-63

| Year | Quantity | Value | Year | Quantity | Value |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | \$000 |  | No. | \$'000 |
| 1954. | 434, 169 | 7. 368 | 1959 | 410.943 | 7. 493 |
| 1955 | 471,354 | 7.053 | 1960 | 315,992 | 5,978 |
| 1956. | 534, 742 | 8, 019 | 1961 | 364, 089 | 6. 232 |
| 1957. | 469, 188 | 7,951 | 1962 ......................................... | 340,752 | 5. 993 |
|  | 399,935 | 6.915 | 1963 | 392.065 | 6, 325 |

See footnote at end of table.

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Concluded
J. Pole Line Hardware, 1954-63

|  | Value |  | year | Value |
| :---: | :---: | :---: | :---: | :---: |
|  | \$'000 |  |  | \$'000 |
| 1954 | 8,065 | 1959 |  | 12, 251 |
| 1955 | 9.130 | 1960 | ..... | 11,146 |
| 1956 | 11.888 | 1961 | ....... | 10,617 |
| 1957 | 11,988 | 1962 |  | 11.962 |
| 1958 | 12,303 | 1963 | ............... | 12, 642 |

${ }^{1}$ Electric motors and/or generatore as Indicated.
included with "All other motors or generators".

- Includes rotors and stators.
" Included in "All other transformers" .
"Included with "Other".
- Includes both gas and electric welding rod of ferrous type only.
" Includes "Resistance welding equipment with controls"".
"Included with "All other industrial control equipment".
"Included in "All other fuses".

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

| Name | Location |
| :---: | :---: |
| Quebec: |  |
| Brown Boveri (Canada) Ltd. Canads Iron Foundries Ltd. | 4000 New Metropolitan Bivd., Pointe Claire |
| Canadian General Electric Co. Etd. | Lachine 1130 Blvd. Charest West. Quebec |
| Crompton Parkinson Electrical Ltd. | 4104 St. Catherine St. W., Westmount, Montreal |
| Electrical Mfg. Co. Itd. ............... | Montmagny |
| Etactrical switchgear Litd. | 115 St. Denis St., St. Lembert |
| Podral Paciflc Electric of Canada | Granby |
| 3. \& R. Electric Co. | 2520 Charland St. Montreal 12 |
| kluckner-Moeller Canada Lid. | Granby |
| stackey Automation and Controls Lid. | 8574-10th Ave., ville St. Michel |
| Marcus Transformers of Canada Ltd. | 999 College St., Montreal 30 |
| Prasteel Ltd. | 10601 Georges Plchet, Montreal North |
| Reliance Electric \& Englneerligg (Capada) Lid., (Les Transformateurs de Québec Div.) | 280 St-Dominique St., Quebec |
| Sactete Industrielle d'apparelllage Technique Inc. ...................................................................................................................................... | Lauzon |
| Sangamo Co. Ltd. ....... | Three Rivers |
| Ontario: |  |
| Acme Electrlc Corp. Ltd. | 50 Northline Rd. Toronto 16 |
| Al-Ma Equipment Co. Ltd. ........... | 430 Comstock Rd., Scarborough |
| Allen-Bradley Canada Lid. | Gait |
| Ascor of Cenada Led. | 59 Howden Rd., Scarborough |
| Bach-simpson Ltd. | 1255 Brydges St., London |
| Berlet Electronics \& Controis Ltd. | Galt |
| Bogue Electric of Canada Ltd. | Box 900 Station "B" Otawa |
| Canadian Controllers Ltd. ....... | Blichmount Rd. . Scarborough |
| Canadian General Electric Co. Lid. | Guelph |
| Canadian General Elecipic Co. Ltd. | 940 L.ansdowne Ave., Toronto 4 |
| Canadian General Electric Co. Lid. | Peterborough |
| Canadian Sterling Electrlc Ltd. | 799 Rennie St., Hamilion |
| Canadian Westinghouse Co. Lid. | 286 Saniord Ave. N, Hamiton |
| Canadan Westinghouse Co. Ltd. | 1475 The Queensway Toronto 18 |
| Cansfield Electrical Works Ltd. | 260 Geary St., Toronto 4 |
| Clare Canada Ltd., C.P. | 840 Caledonia Rd., Toronto |
| Clark Coil Company | 938 Walker Rd., Windsor |
| Controls Company Canada Limited | St. Thomas |
| Crompton Papkinson Electrical Lid. | Cainsville |
| Cutler-Hammer Can. Lid. | 45 Progress Rd., Scarborough |
| Dominion Cutout Lid. | 250 Richmond St. W. Tofonto 2 B |
| Electric Control \& Englneering Co. Ltd. | 1199 Finch Ave, West. Downsvlew |
| Electronle Controls Lid. | 11 Water St., Belleville |
| Fanner Electrical Products Ltd. The | 50 Frio St., Hamilton |
| Ferranti-Packard Electric Ltd. | 13 Race St., St. Catharlnes |
| Ferranti-Packard Electric Ltd. | Industry St., Toronto 15 |
| F.H. Welding Machines Lid. | 92 North Queen St. Toronto 18 |
| Industrial \& Machine Control Co. | 1720 Langlois Rve. Windsor |
| minilis Company Limited, John | 767 Warden Ave, Scarborough |
| I:Aal-\&-Corp. (Canada) Ltd. | 24 Ronson Dr., Rexdale |
| i. 1. E. Circuit Breaker (Canada) Ltd. | Part Credit |
| lolniston Soper Lid. | 230 Weber St., N., Waterloo |
| Thues \& Moote Electric Co. Ltd. | 296 Adelalde St. W., Toronto 2 B |
| Kıarney Corp, of Canada Lid., James R. | Guelph |
| Kluckner-Moeller Canada Ltd. ..... | 19 Hass Rd., Rexdale |

List of Establishments classified to This Industry, 1963 - Concluded

| Name | Location |
| :---: | :---: |
| Ontario - Concluded: |  |
| Leece Neville of Canada Lid. | 359 Frankcom St., AJax |
| Lincoln Electric Co. of Canada Lid. | 179 Wicksteed Ave., Leaside |
| Line \& Cable Accessorles Ltd. ....... | Newmarket |
| Link Welder of Canada Ltd. | 2930 College Ave., Windsor |
| Lovact Engineering Lid. | Chesley |
| Marquette Equipment (Canada) Ltd. | Rexdale Blvd., Rexdale |
| Mechron Engineerlng Products Ltd. | 2437 Kaladar Ave., Ottawa |
| McGraw-Edison (Canada) Ltd. | 3595 St. Clair Ave. East, Scarborough |
| Moloney Electric Co. of Canada Ltd | 213 Sterling Rd., Toronto 3 |
| Murray-Jensen Mfg, Ltd................... | 216 Norseman St., Toronto 18 |
| Nichols Co. Limlted. R.H... | gox 500, Downswiew |
| Osborne Electric Company Ltd. | 95 Wesley St., Toronto 18 |
| Penzer Products Ltd. | 72 Vine St.. St. Catharines |
| Pioneer Electric Eastern Ltd. | 2 Audley St., Toronto 18 |
| Powertronic Equipment Lotd. | 50 Bermondsey Rd., Toronto |
| Precision Welder \& Flexopress (Canada) Lto. | 72 Carnforth Rd., Toronto |
| Progressive Welder (Canada) Litd. | Chatham |
| Reliance Electelc \& Engineering (Canada) L | Weiland |
| Rellance-Reeves-Master Ltd. | Stratford |
| Rohbins \& Myers Co, of Canada Lid | Brantford |
| Robotron of Canada Ltd. | Sandwich |
| Sangamo Co., Ltd. .. | 215 Lalrd Dr., Leaside |
| Sangamo Co. Litd. | Guelph |
| S. \& C. Electric Canada Ltd. | 90 Belfield Rd., Rexdale |
| Sherley Controls Ltd. | 30 Fifth Ave. Ottawa 1 |
| Shoe Machine Parts Lid. | 60 Tecumseh St., Toronto |
| Slater Co. Ltd. N . | 681 Klng st. W. Hamllton |
| Sola-Basic Products Ltd. | 377 Evans Ave., Toronto 18 |
| Square D. Company Canada Letd. | Mount Dennis |
| Stegg Electric Ltd. | 34 Bertram Blvd., Belleville |
| Syntion (Canada) Ltd. | Stoney Creel |
| T. \& H. Controls Limited | Chatham |
| Trench Electric Ltd. | 100 Niagara St. Toronto 2 B |
| Trigon Associates Ltd. | 32 B.C.D. Howden Rd., Scarborough |
| Volta Welders Ltd. ....... | 673 Wellington Ave., Windsor |
| Vulcan Electric Products Limited | 3160 Dundas St.. West. Toronto |
| Ward Leonard of Canada Ltd. ...... | 1070 Blichmount Rd. Scarborough |
| Weld-O-Matic Machines Ltd. | 610 Beach Rd. Hamilton |
| Weltronic Co. - Canadian Division | 3201 Marentette Ave., Windsu: |
| Western Controls Ltd. |  |
| Manitoba: |  |
| Ploneer Electrlc Limited ......... |  |
| Pioneer Electric Brandon Ltd. | ilth Street d Rehmond Ave, Brandon |
| Saskatchewan: |  |
| Ploneer Electric (Sask) Limited |  |
| Smlth-Roles itd. | 34th St. \& Alberta Ave., Saskatoon |
| Alberta: |  |
| Lefebure Eng. Ltd. Y.H. | 514 A-5th Ave., St. W., Calgary |
| Nemeo Electric Mig. Ltd. ......... | 344-39th Ave., S.E., Calgary |
| Petro-Automation Industrles Ltd | 3818-7th St., S.E., Calgary |
| Pioneer Electric (Alberta) Ltd. . | Red Deer |
| British Columbin: |  |
| British Columbla Transformer Ca. Lid. | 4336 Lougheed Hwy.. North Burnaby |
| Canadian Westinghouse Co, Ltd. ........ | 281 Industrial Ave.. Vancouver |
| Federal Paclfic Electric of Can. | 22 E., 5th Ave. Vancouver |
| I. T.E.. Circult Breaker (Can.) Ltd. | 8650 Barnard St. Vancouver 14 |
| KlocknertMoeller Canada Led. | 1350 East 4th Ave., Vancouver 12 |
| Research Industties Ltd. | 2971 Lake City Way, Burnaby 2 |
| Transco Mfg, Ltd. | 1430 River Rd., RR 2, Richmond |
| Vancouver Electric Boxes Lutd. | 176 Salshury Dr., Vancouver 6 |

# 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 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 uperated 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 manufactuing 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, teference 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 statistlcs 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 of 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 similar 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 hours 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 piece-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, secretaries, 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, oredit 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 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.
(e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of omployees 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 of partners for normal living expenses excluding withdrawals for payment of income tax.

## Salaries and Wages

Salartes 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, penslons, etc. They include all salarles, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (pald 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 lald 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 of physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others of received as transfers (in the form of materials, components of 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 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.

## (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 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 manufarturing 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 depreclation 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 includeri 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 recelved 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 classification, 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 re-sale (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 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 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 DBS publication Catalogue No. 61-202, "Survey of Production".


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[^0]:    See footnotes at end of table.

