Published by Authority of the HON. JAMES A. MacKINTON, M.P. Minister of Trade and Commerce
DEDPATMET OF TRADE AMD CO TaCE DONINIO: BUREAU OF STATISTICS CENSUS OF INDUSTRY
AIMING, WETALIJTRGICAL AND CHEMiCAL, BRAnCH OTTAVA - CANADA


## COMSURTIUN OF COKE IN CANADA -1941

The apparent consumption of coke in Canada during 1942 amounted to 4, 199,021 tons compared with 3,384,544 tons in 1940.

Production of coke (including petroleum coke and pitch coke) during 1941 totalled $3,235,944$ tons and imports entered for consumption amounted to 895,459 tons, making an available supply of $4,121,403$ tons. However, exports and reexports totalled 3 ,952 tons and producers' stocks decreased 48,575 tons, leaving 4,092,027 tons as the quantity sade available for use in canada during the year. The distribuLion of this tonnage, by areas, was as follows: Maritimes, 597.317 tons; Quebec, 61\%,146 tons; Ontario, 2,609,137 tons, and the Western Pro ines, 2\% , 927 tons. This calculation, of course, does not take into consideration any interprovincial. shipments of coke or any chances in stocks held by dealers or users as no records are available concerning such movements.

Actual consumption records, as compiled from the Census of Industry reports for 1941 , show that $1,944,151$ tons of coke mere used in blast furnaces and cupolas, 509,875 tons were used as raw materials in manufacturing, and 39n,731 tons were used as fuel in manufacturing, mining and smelting industries. Thus a total
 represent tine quantity available for use as domestic fuel or in commercial estiahlishments, such as, retail stores, repair shops, warehouses, otc., whet are not covered by the Industrial Census. The distribution by areas of the latter figure (mostly domestic consumption) was as follows: liaritimes, 118,594 tone; quebec, 253,235 tons; Ontario, 806,179 tons, and the Western Provinces, 93, 22. tons. fere, again, no allowance has boon made for intorprovincial shipments.

Coke charger to smelting furnaces and cupolas during 1341 amounted to 1,914,151 tons, of which 1,362,530 tons wore used in iron blast fumous3, 5,506 tons in steel furnaces, 68,731 tons in ferro-all Dy furnaces, 361, 475 tons in fumaces used for small inc of non-ferrous ores, and 145,819 tons in forty cupolas. The consumption, by districts, was as follows: Maritimer, 450, 1\%'s toms; Quebec, 14,190 tons; Ontario, 1, 350,509 tons, and the !!astern Provinces, 91 , 958 tons.

Coke used as a ram material in manufacturing in 1991 totalled 509,375 tons, of which 252,351 tons were used in the manufacture of calcium cribide, 5,118 tors in making carbon dioxide, 91,778 tons in medicine illuminating and fuel gas, 41, C18 tons in mace nc art fictal abrasives, $10 n$, ass tons in the memufacturo of carbon electrodes, err? 6,000 tons in the manufacture of rock wool. Plants in Anta $u$ used 192,177 tons: in quebec, 249,793 tons, and in the Western Provinces, $6 \%, 905$ tons.

Coike


|  |  | $\begin{gathered} \text { D.E.I. } \\ \text { N.S. } \\ \text { nu. H. } \end{gathered}$ | Cuebec | Onter:o | ian., So.sk., <br> MI berta <br> and $12 . C$. | CAIADA. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Coise and cas lumustry | tonas | $\begin{array}{r} 507,035 \\ =, 970,37 \therefore \end{array}$ | $\begin{array}{r} 401,495 \\ 4,007,651 \end{array}$ | $\begin{array}{r} 1,830,109 \\ 14,205,106 \end{array}$ | $\begin{array}{r} 884,573 \\ 1,364,391 \end{array}$ | $\begin{array}{r} 3,145,715 \\ 21,829,023 \end{array}$ |
| Petroleum refining | tons | $437$ | 3,673 | $\begin{gathered} 65,908 \\ 451,03 ? \end{gathered}$ | $\begin{aligned} & 1, n 92 \\ & 0,920 \end{aligned}$ | $\begin{array}{r} 70,960 \\ 19,6,730 \end{array}$ |
| Coal tur refininc | tons | 8,329 | 1,192 | 8,733 | 570 | 15, 353 |
| industry. | 5 | 50,175 | 92 | 64,053 | 7,204 | 142.102 |
| morio |  | $\begin{array}{r} 570,351 \\ 4,031,230 \\ \hline \end{array}$ | $\begin{array}{r} 43 C, 358 \\ 4,090,339 \\ \hline \end{array}$ | $\begin{array}{r} 1,306,115 \\ 15,51,931 \end{array}$ | $\begin{array}{r} 203,540 \\ 1,337,503 \\ \hline \end{array}$ | $\begin{array}{r} 5,65,044 \\ 25,505,463 \\ \hline \end{array}$ |

Table 2- APPARPMI UOMSUPPIO: OE ONT 1 CAMDA, BY PHOVINGS, 1917 (short tons)


MTE: The Emports "ontered for conciaption" represent tonnages cleared from customs ports. The tonnaces enterod under this headine differ slightly from actual imports.
 I DiUTNTEC, 1041


Pic iron, ferro-alloys, steel incots and steel

| castings ............. | Tons | $\begin{array}{r} 445,027 \\ 2,571,028 \end{array}$ | $\begin{array}{r} 8,35 Z \\ 71,647 \end{array}$ | $\begin{array}{r} 98 \Omega, 453 \\ 7,143,02 ? \end{array}$ | $\begin{array}{r} 1,050 \\ 14,020 \end{array}$ | $\begin{aligned} & 1,430,35 \\ & 0,30 \%, 720 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Iron cnstines | Tons | 1,121 | 11, 14.12 | 44, 580 | 5,302 | 62,094 |
|  |  | 18,700 | 164,747 | 688,838 | 39,367 | 962,152 |
| Heatine and cooicing | Tons | 1,732 | 1,502 | 6,531 | 729 | 10,554 |
| apperatus | ¢ | 31,781 | [.2,571 | 32,773 | 11,495 | 158,500 |
| Boilers, tan'ss and | Tons | 147 | ¢,179 | 6,683 | 200 | 13,209 |
| platemork | \% | 2,662 | 93,092 | 106,462 | 2,235 | 204,451 |
| Farm implements and | Tons | ... | 152 | 8,129 | 6 | 3, 237 |
| machinery. | ¢ |  | 1,784 | 117,323 | 107 | 119,317 |
| Machinory | Tons | 105 | 4,217 | 6,305 | 1,069 | 11,724 |
|  | * | 1,746 | 65,358 | 91,677 | 16,535 | 175,346 |
| Railway rolling stock.. | Tons | 1,930 | 2,090 | 11,334 | 4,712 | 20, 791 |
|  | \% | 37,967 | 116,676 | 178,775 | 93,39\% | 427, 303 |
| Automobile perts | yone | ... | E | 12,395 | ... | 12, 400 |
|  | $\stackrel{3}{8}$ | $\ldots$ | 50 | 130,838 | ... | 190,308 |

 IUDIGTPITS, 2912 (concluded)

| Industr: | $\begin{aligned} & \text { P.U.I. } \\ & \text { N.S. } \\ & \text { and N. } 3 . \end{aligned}$ | cuebec | Onterio | $\begin{gathered} \text { Man. Sask., } \\ \text { Al berta } \\ \text { and B.C. } \end{gathered}$ | CAisADA |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Other iron ma stcel . Tons |  |  | $\begin{array}{r} 257 \\ 3,053 \end{array}$ | $\begin{array}{r} 503 \\ 10,716 \end{array}$ | $\begin{array}{r} 760 \\ 13,769 \end{array}$ |
| Non-ferrous metallurgi- Tons | ... | 3,371 | 279,338 | 77,760 | 361,475 |
| cal morks .......... |  | $45,97 ?$ | 2,976,351 | 710,095 | 3,738, 413 |
| TUTAL ........ Tons | 450,120 | 44,130 | 1,358,509 | 91,326 | 1,911,151 |
|  | 2, 065,324 | 584.317 | 11, 59, 71 | 340,022 | 5,792, 376 |

 1941

(x) Por makinë calcium carbide, carbon dioxide, artificial abrasives, water हas, carbon electrodes, foundry facings, rock wool, etc.
 HIMNG AGD SMELTING INDJSERIES, 1941

P.E.I. Quebec ontario Man., Sask. | Alberta |
| :--- |
| N.S. CANADA |
| and B.C. | C.B.

| MAMTPACMTRING |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Chemicals and allied products | Tons | 41 | 1,297 | 3,035 | 23? | 7,610 |
|  | 5 | 430 | 32, 184 | 23,564 | 2,996 | 59,474 |
| Iron and steel and their | Tons | 16,900 | 9,169 | 79,008 | 5,151 | 110,228 |
| products | \% | 58, 21.6 | 110,391 | 332,137 | 73,999 | 574,743 |
| Non-ferrous metal products | Tons | ... | 2,003 | 21,098 | 141 | 23,242 |
| (excluding swelters) |  |  | 15,453 | 241,197 | 1,526 | 258,131 |
| Non-metallic minersa products | Tons | 6,182 | 25,371 | 121,914 | 7,049 | 158, 546 |
| (excluling coment, lime, clay end salt) | * | 36,741 | 108,614 | 930,420 | 35,661 | 1,361,119 |
| linimal products. | Tons | 53 | 270 | 342 | 11.6 | 1, 291 |
|  |  | 501 | 5,349 | 3,750 | 961 | 13,651 |
| Textile proaucts | Tons | 45 | 440 | 378 | 280 | 1,149 |
|  | S | 452 | 5,655 | 4,225 | 1,754 | 10,086 |

Table 5 - COMSUMPTION OF COKE IN CANADA AS INDTSATKAL LUE IN THE MANUFACTURING, MLING AND S:METNG INDUS'TRES, 1941 (Concluded)

P.E.I. \begin{tabular}{l}

N.S. Quebec onterio | Man, Sask., |
| ---: |
| Al berta |
| and B.S. | <br>

and N.B.
\end{tabular}

CANADA

| NTFACIURING (Conclud |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vegetable products | Tons <br> \$ | $\begin{array}{r} 5,310 \\ 59,961 \end{array}$ | 8,550 96,518 | 23,960 274,386 | $\begin{array}{r} 2,257 \\ 24,922 \end{array}$ | $\begin{array}{r} 40,577 \\ 455,737 \end{array}$ |
| Whood and paper products | Tons | 63 | 652 | 1,916 | 107 | 2,738 |
|  | \$ | 630 | 6,945 | 5,264 | 1,138 | 13,977 |
| Miscellaneous products. | Tons | ... | 176 | 34 | 125 | 335 |
|  |  |  | 005 | 987 | 1,271 | 4,263 |
| Total Manufacturing Industries | Tons | 29,097 | 48,928 | 252,272 | 15,469 | 345,766 |
|  | \$ | 157,021 | 379,419 | 1. 7770,940 | 144,231 | 2,451,611 |
| MINING INDUSTRIES ..... | Tons | 4,865 | 1,372 | 39,257 | 1,474 | 46,968 |
|  | $\stackrel{3}{*}$ | 28.127 | 13,455 | 250, 177 | 15,619 | 307,378 |
|  | Tons | 33,962 | 50,300 | 291,529 | 15,943 | 392,734 |
|  | $\stackrel{5}{5}$ | 185.148 | 392,874 | 2,021, 117 | 159,350 | 2,758,989 |

Table 6 - ANALYSIS OF CORL COISUMTTON IN CANADA, BY PRINCIPAL USES, 1941, WITH COLTPARATIVE DATA FOR 1939-1940 (Short tons)

|  | $\begin{gathered} \text { P.E.I. } \\ \text { N.S. } \\ \text { and N.B. } \end{gathered}$ | Quebee | Ontario | $\begin{aligned} & \text { Man., Sask. } \\ & \text { AL berta } \\ & \text { and B.C. } \end{aligned}$ | CAIHADA |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1941 |  |  |  |  |  |
| Furnace charges | 450,126 | 44,190 | 1,358,509 | 91,326 | 1,944,151 |
| Manufacturing material .... |  | 249,793 | 192,177 | 67,905 | 509,375 |
| Industrial fuel ... | 29,097 | 48,928 | 252,272 | 15,469 | 345,766 |
| Available for other uses (mostly domestic) ....... | 118,594 | 269,235 | 806,179 | 98,227 | 1,292,235 |
| APPARENT CONSUKPIIION | 597,817 | 612,146 | 2,609,137 | 272.927 | 4,092,027 |
| 1910 |  |  |  |  |  |
| Furnace charges | 471,933 | 32,710 | 1,151,805 | 89,352 | 1,746,305 |
| Manufacturine material | 120 | 156,101 | 157,087 | 58,310 | 372,118 |
| Industrial fuel ... | 31,302 | 52,108 | ? 13,941 | 21,823 | 353,250 |
| Available for other uses (mostly domestic) ......... | 78,606 | 367,361 | 896,279 | 65,625 | 1, 407,871 |
| APPAREMI COMSTMPTIOII ... | 584,966 | 603,280 | 2, 155,112 | 236, 236 | 3, 384,511 |

## 1239

| Furnace charges $\ldots \ldots \ldots$ | 313,050 | 25,270 | 769,688 | 73,958 | $1,181,966$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Manufacturing materiai $\ldots \ldots$ | 368 | 123,420 | 133,579 | 54,470 | 311,837 |
| Industrial fuel $\ldots \ldots \ldots$ | 31,829 | 47,451 | 218,303 | 11,584 | 309,167 |

Available for other uses
 APPARENT COMSTMPTIO … 398,790 500,502 2,011,859 207,231 3,119,382 MOTES: 1. Figures shoving the tonnage of coke available for other uses are obtained by difference and include the coke used for purposes other than specified in these tables. Sales of coke for domestic use by reteil coal dealers amounted to 947,053 tons in 1911, and in that year the coke producers sold 195, 280 tons of coke direct to consumers for domestic use, making a total of $1,143,333$ tons for this purpose in 1911. 2. No allowance has been made for changes durine the year in stocks of coke held by dealers or users. 3. No allowance has been made for interprovincial shipments of coke.

