

CONSURTIUN OF COKE I: CANADA - 1940
The apparent consumption of coke in Canada during 1940 amounted to 3,884,544 tons compared with $3,118,382$ tons in 1939.

Production of coke (including petroleun coke) during 1940 totalled 3,083,728 tons and imports entered for consumption amounted to 855,086 tons, making an available supply of $3,933,814$ tons. However, exports and re-exports totalled 77,968 tons and producers! stocks decreased 23,698 tons, leaving 3,384,544 tons as the quantity available for use in Canada during the year. The distribution of this tonnage, by areas, was as follows: Maritimes, 584,966 tons; Quebec, 608, 280 tons; Ontario, 2,455,112 tons, and the Western Provinces, 236,186 tons. This calculation, of course, does not take into consideration any interprovincial shipments of coke or any changes 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 1940, show that $1,746,305$ tons of coke were used in blast furnaces and cupolas, 372,118 tons were used as raw materials in manufacturing, and 353,250 tons were used as fuel in manufacturing, mining and smelting industries. Thus a total of 2,476,673 tons has been accounted for and the difference of $l_{, ~ 407,871 ~ t o n s ~ m u s t ~ r e p r e s e n t ~ t h e ~}^{\text {m }}$ quantity available for use as domestic fuel or in commercial establishnents, such as, retail stores, repair shops, warehouses, etc., which are not covered by the Industrial Census.

The distribution by areas of the domestic consumption of $1,407,871$ tons was as follows: Maritimes, 78,606 tons; Quebec, 367,361 tons; Ontario, 896,273 tons, and the Western Provinces, 65,625 tons. Here, again, no allowance has been made for interprovincial shipments.

Coke charged to smelting furnaces and cupolas during 1940 mounted to 1,746, 305 tons, of which $1,225,173$ tons were used in iron blast furnaces, 5,523 tons in steel furnaces, 57,184 tons in ferro-alloy furnaces, 347,376 tons in furnaces used for smelting and non-ferrous ores, and 113,049 tons in foundry cupolas. The consumption, $\mathrm{b}_{\mathrm{j}}$ districts, was as follows: Maritimes, 471,938 tons; Quebec, 32,710 tons; Ontario, 1,151,805 tons, and the Western Provinces, 89,852 tons.

Coke used as a raw material in manufacturing in 1940 totalled 372,118 tons of which 190,232 tons were used in the manufacture of calcium carbide, 4,344 tons in making carbon dioxide, 85,318 tons in making, illuminating and fuel gas, 33,433 tons in making artificial abrasives, 52,805 tons in the manufacture of carbon electrodes and 5,380 tons in the manufacture of rock wool. Plants in Ontario used 157,087 tons; in Quebec, 156,101 tons; in the Maritimes, 120 tons, and in the Western Provinces, 58,810 tons.

Coke
Table 1 - PRODUCTION OF COKE IN CANADA, 1940

|  |  | $\begin{gathered} \text { P.E.T. } \\ \text { N.S. } \\ \text { and N. B. } \end{gathered}$ | Quebec | Ontario | Man., Sask., Al berta and B.C. | CAVADA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Coke and gas industry | tons \$ | $\begin{array}{r} 605,917 \\ 4,106,917 \end{array}$ | $\begin{array}{r} 435,082 \\ 3,475,420 \end{array}$ | $\begin{array}{r} 1,732,303 \\ 12,842,138 \end{array}$ | $\begin{array}{r} 242,092 \\ 1,513,386 \end{array}$ | $\begin{array}{r} \mathbf{3}, 015,394 \\ 21,937,861 \end{array}$ |
| Petroleum refining industry ........... | tons $\$$ | $\begin{array}{r} 541 \\ 1,498 \\ \hline \end{array}$ | $\begin{array}{r} 2,753 \\ 12,688 \\ \hline \end{array}$ | $\begin{array}{r} 61,936 \\ 414,671 \\ \hline \end{array}$ | $\begin{array}{r} 3,099 \\ 12,733 \\ \hline \end{array}$ | $\begin{array}{r} 68,334 \\ 441,590 \\ \hline \end{array}$ |
| TOTAL | tons | $\begin{array}{r} 606,458 \\ 4,108,415 \\ \hline \end{array}$ | $\begin{array}{r} 437,840 \\ 3,188,108 \\ \hline \end{array}$ | $\begin{array}{r} 1,794,239 \\ 13,256,802 \\ \hline \end{array}$ | $\begin{array}{r} 245,191 \\ ]_{2} 526,119 \\ \hline \end{array}$ | $\begin{array}{r} 3,083,728 \\ 22,379,451 \\ \hline \end{array}$ |

Table 2-APPARENT CONSUMPTION OF COKE IN CANADA, BY PROVINCES, 1340 (short tons)

| P.E.I. |  |  | Man.,Sask., |  |
| :---: | :---: | :---: | :---: | :---: |
| N.S. | Quebec | Ontario | Al berta | CAINADA |
| nd N . |  |  | and B.C. |  |
| 606,458 | 437,840 | 1,794,239 | 245,191 | ,083,728 |

Production ......................606,458 437,840 1,794,239 245,191 3,083,728
Add - Declines in producers'


Deduct - Increase in producers' stocks

| 23,919 | $\cdots$, | 23,919 |  |
| :--- | :--- | :--- | :--- |
| 582,539 | 470,246 | $1,801,287$ | 253,354 |

Add - Imports entered for consumption $\ldots \ldots \ldots \ldots \frac{3,482}{586,021} \frac{140,348}{610,594} \frac{701,705}{2,502,992} \frac{9,551}{262,905}-8,95,086$
Deduct - Exports and re-exports 1,055 2, 314 $\quad 47,880 \quad 26,719 \quad 77,968$ APPARENT CONSUMPITON ….... 584,966 608,280 $2,455,112$ 236,136 $3,384,544$ NOTE: The imports "entered for consumption" represent tonnages cleared from customs' ports. The tonnages entered under this heading differ slightly from actual imports.

Table 3 - CONSUMP'IION OF CUKE IN CANADA IN BMELTNG FURNACES AND CUPOLAS, BY
INDUSTRUES, 1940

| Industry |  | $\begin{gathered} \text { P.E.I. } \\ \text { N.S. } \\ \text { and } N . B . \end{gathered}$ | Quebec | Ontario | Man.,Sask., Al berta and B.C. | CANADA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pig iron, ferro-alloys, steel ingots and steel castings Iron castings | Ions \$ | $\begin{array}{r} 467,349 \\ 2,672,161 \end{array}$ | $\begin{array}{r} 3,225 \\ 24,393 \end{array}$ | $\begin{array}{r} 814,725 \\ 5,293,337 \end{array}$ | $\begin{array}{r} 581 \\ 7,610 \end{array}$ | $\begin{aligned} & 1,285,880 \\ & 7,998,101 \end{aligned}$ |
|  | Tons \$ | 770 11,818 | 9,190 126,964 | 28,366 375,344 | 3,757 62,269 | $\begin{array}{r} 42,083 \\ 576,995 \end{array}$ |
| Heating and cooking apparatus $\qquad$ | Tons <br> \$ | $\begin{array}{r} 1,542 \\ 25,195 \end{array}$ | 1,381 19,455 | $\begin{array}{r} 5,211 \\ 73,792 \end{array}$ | 538 8,871 | $\begin{array}{r} 8,672 \\ 127,313 \end{array}$ |
| Boilers, tanks and | Tons | -126 | 5,439 | 5,545 | 30 465 | 11,140 |
| platework ........ | T | 2,170 | 78,858 | 74,506 | 465 | 155,999 |
| Farm implements and machinery | Tons <br> है | ... | 140 1,650 | 7,354 91,712 | ... | 7,494 93,362 |
| Machinery | Tons | 41 | 3,535 | 5,198 | 713 | 9,487 |
|  | \% | 492 | 52,994 | 71,930 | 11,199 | 136,615 |
| Railway rolling stock.. | Tons | 2,110 | 5,381 | 12,095 | 3,541 | 23,727 |
|  | \$ | 35,929 | 69,012 | 161,661 | 52,632 | 319,234 |
| Automobile parts |  | ... | 4 | 10,837 | ... | 9,841 |
|  | \$ |  | 48 | 139,238 | ... | 139,286 |

Table 3 - CONSUMPTION OF COKE IN CAJADA IN SMTLTING FURNACES AND CUPOLAS, BY INDUSTPIES, 1940 (Concluded)

| Industry | $\begin{gathered} \text { P.E.I. } \\ \text { N.S. } \\ \text { and N.B. } \end{gathered}$ | Quebec | Ontario | Man.,Sask., Alberta and B.C. | CANADA |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Other iron and steel.... | ... | - | 201 | 404 | 605 |
|  | ... |  | 2,116 | 7,542 | 9,658 |
| Non-ferrous metallurgical works $\qquad$ TOTAL $\qquad$ | ... | 3,815 | 263,273 | 80,288 | 347,376 |
|  |  | 42,074 | 2,609,899 | 717,150 | 3,369,123 |
|  | 471,938 | 32,710 | 1,151,805 | 83,852 | 1,746, 305 |
|  | 2,747,765 | 415,448 | 8,894,735 | 867.758 | 2,925,686 |

Table 4 - CONSIMPTION OF CORE IN CANADK AS MANUFACTURIMG MATEIAL(x), BY INDUSTFLES, 1.240

(x) For mekinॄ calcium carbicle, carbon dioxide, artificial cibrasives, water gas, carbon electrodes, foundry facings, roch wool, etc.

Table 5 - CONSUMPTION OF COKE IN CANADA AS INDUSTRI AL FUEL IN TRE MANUFACTURING, MINING AND SMELTING INDUSTRIES, 1940


| MANUFACTUPING |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Chemicals and alied products | \$ | 484 | 25,564 | 20,423 | 3,251 | 43,728 |
| Iron and steel and their | Tons | 20,136 | 8,655 | 47,584 | 1,562 | 77,937 |
| products | \$ | 70,976 | 99,536 | 228,255 | 21,627 | 420,301 |
| Non-ferrous metal products | Tons | ... | 3,091 | 13,409 | 187 | 16,687 |
| (excluding smelters) | \% | ... | 25,569 | 138,463 | 2,861. | 166,893 |
| Non-metallic mineral products | Tons | 1,851 | 24,507 | 120,606 | 8,379 | 158,343 |
| (excluding cement, lime, clay and salt) | $\stackrel{3}{3}$ | 28,771 | 103,795 | 374,483 | 36,770 | 1,149,819 |
| Animal products | Tons | 59 | 394 | 8,085 | 111 | 8,649 |
|  |  | 465 | 3,008 | 27,850 | 967 | 32,290 |
| Textile products | Tons | 35 | 205 | 480 | 5 | 725 |
|  | \$ | 297 | 2,437 | 3,999 | 60 | 6,793 |

TabIa 5 - CONSUMPTION OF COKE IN CANADA AS IHDUSTRIAL FUEL IN TYE MANUFACTURING, MINING AND S:IEITING INDUSTPTES, 1340 (Concluded)

N.S. Quebec Ontario Alberta CANADA
and N.B.
and B.C.

| MANUFACTURING (Concluded) |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vegetable products ..... | Tons | 4,401 | 8,916 | 27,231 | 10,060 | 50,608 |
|  | ¢ | 39,933 | 86,596 | 272,496 | 35,450 | 434,475 |
| Mood and paper products. | Tons | 96 | 737 | 1,862 | 106 | 2,801 |
|  | \$ | 638 | 7,063 | 12,790 | 1,074 | 21,565 |
| Miscellaneous products. | Tons | ... | 150 | 171 | 135 | 456 |
|  |  |  | 12579 | 1,604 | 12.286 | 4,469 |
| Total Manufacturing |  |  |  |  |  |  |
| Industries | Tons | 23,630 | 51,411 | 222,016 | 20,817 | 323,874 |
|  |  | 141,564 | 361,147 | 1,680, 369 | 103,346 | 2,286,426 |
| MINING INDUSTRIES | Tons | 4,672 | 637 | 27,325 | 1,08? | 34,376 |
|  |  | 26,370 | 7,044 | 174,502 | 11,925 | 219,841 |
|  | Tons | 34,302 | 52,108 | 249,941 | 21,832 | 358,250 |
|  |  | 167,934 | 368,191 | 1,854,871 | 115,871 | 2,506,267 |

Table 6 - ANALYSIS OF COKE CONSUMPIION IN CANADA, BY PRINCIPN USES, 1940, WITH COIPARAIIVE DATA FOR 1938-1939 (Short tons)

P.E.I. Quebec ontario | Man., Sask., |
| :--- |
| Al berta |
| and N.B. |

and B.C.
$1 \quad 3 \quad 4 \quad 0$

| Furnace charges | 471,938 | 32,710 | 1,151,805 | 89,852 | 1,746,305 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturing material | 120 | 156,101 | 157,087 | 58,810 | 372,118 |
| Industrial fuel | 34,302 | 52,108 | 243,341 | 21,893 | 358,250 |
| Available for domestic use (by difference) ......... | 78,606 | 367,361 | 896,279 | 65,625 | 1,407,871. |
| APPARINT CONSTMPIION | 584,966 | 608,280 | 2,455,112 | 236,186 | 3,884,544 |


| Furnace charges | 313,050 | 25,270 | 769,688 | 73,958 | 1,181,966 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturing material | 368 | 123,420 | 133,579 | 54,470 | 311,837 |
| Industrial fuel | 31,829 | 47,451 | 218,303 | 11,584 | 309,167 |
| Available for domestic use (by difference) | 53,543 | 304, 361 | 890,289 | 67,219 | 1,315,412 |
| APPARENT CONSUAPTION | 398,790 | 500,502 | ,011,859 | 207,231 | 3,118,382 |


| $1 \quad 3 \quad 3$ |
| :--- | :--- |

Furnace charges .......... 273,671 25,190 719,307 74,842 1,033,010
Manufacturing material... 377 112,642 135,774 46,293 295,086
Industrial fuel .......... 23,501 43,215 218,158 10,010 234,884

Available for domestic use
(by difference) ........
$\frac{62,608}{360,157}-\frac{267,657}{448,704}-\frac{618,600}{1,621,353}-\frac{68,331}{199,476}-\frac{1,017}{2} \cdot \frac{700}{176}$
APPARENT CONSURPTION ... $\quad 360,157 \ldots 448,704 \quad 1,631,032 \quad 199,476 \quad 2,700,176$
NOTE: 1. Figures showing the tonnage of coke available for comestic use are obtained by difference and include the coke used for purposes other than specified in these tables.
2. No allowance has been made for changes during the year in stocks of coke held by dealers or users.
3. No allowance has been made for interprovincial shipments of coke.

