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CONSIMPMION OF COKE IN CAVADA -1943
The apparent consumption of coke in Canada during 1943 amounted to $4,702,937$ tons compared with $4,406,123$ tons in $1: 342$.

Production of coke (including petroleum coke and pitch coke) during 1943 totalled $3,655,080$ tons and imports entered for consumption amounted to $1,255,785$ tons, making total supply of $4,982,926$ tons. However, exports and ro-exports totalled 104,927 tons and producers' and dealers' stocks increased 105,101 tons, leaving 4,702,837 tons as the quantity made available for use in Canada during the year. The distribution of this tonnage, by areas, was as follows: Maritimes, 557,956 tons; Quebec 813,499 tons; Ontario 3,028,986 tons, and the Westarn Provinces 297,466 tons. This calculation does not take into consideration any interprovincial shipments of coke or any changes in stocks held by usors as complete records are not available concerning such movements.

Actual consumption records, as compiled from the Census of Industry reports for 1943, show that $2,245,062$ tons of coke were used in blast furnaces and cupolas; 821,639 tons were used as raw matarials in manufacturing, and 405, 282 tons were used as fuel in manufacturing, mining and smelting industries. Thus a total of $3,469,983$ tons has been accounted for and the difference of $1,232,854$ tons must represent the quantity available for use as domestic fuel or in commercial estabifshments, such as retail storos, repair shops, warehouses, etc., which are not covered by the Industrial Census. The distribution by areas of tho latter figure (mostly domestic consumption) was as follows: Maritimes 126,225 tons; Quebec 286,984 tons; Ontario 705,147 tons, and the Western Provinces 114,528 tons. Here, again, no allowance has been made for interprovincial shipments.

Coke charged to smel ting furnaces and cupolas during 1943 amounted to $2,245,062$ tons, of which $1,646,191$ tons were used in iron blast furnaces, 5,158 tons in steel furnaces, 63,563 tons in ferro-alloy furnaces, 372,105 tons in furnaces used for smelting of non-ferrous ores, 5,238 tons in brass foundries, and 146,807 tons in foundry cupolas. The consumption, by districts, was as follows: Maritimes, 595,983 tons; Quebec 47,895 tons; Ontario $1,710,724$ tons, and the Western Provinces 90,560 tons.

Coke used as a raw material in manufacturing in 1943 totalled 821,639 tons, of which 327,446 tons were used in the manufacture of calcium carblde; 8,120 tons in making carbon dioxde; 180,755 tons in making illuminating and fuel gas; 72,589 tons in making artificial abrasives; 222,907 tons in the manufactura of carbon electrodes, and 9,922 tons in the manufacture of rock wool. Plants in Ontarlo used 328,128 tons; in Quebec 423,107 tons, and in the Fiestern Provinces 70,404 tons.

Table 1 - PRODUCTION OF COKE IN CANADA, 1343

|  |  | $\begin{gathered} \text { P.E.I. } \\ \text { N.S. } \\ \text { and }{ }^{\text {N. }} \text {. } \end{gathered}$ | Quebec | Ontario | Man., Sask., Al berta and B.C. | CANADA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Coke and gas industry | ton | $\begin{array}{r} 557,696 \\ 3,971,707 \end{array}$ | $\begin{array}{r} 510,983 \\ 5,066,466 \end{array}$ | $\begin{array}{r} 2,173,745 \\ 20,044,820 \end{array}$ | $\begin{array}{r} 304,351 \\ 2,256,985 \end{array}$ | $\begin{array}{r} 3,551,775 \\ \text { 51, } 359,978 \end{array}$ |
| Petroleum refining | ton | 273 | 1,122 | 82,411 | 1,506 | 85,312 |
| industry ....... |  | 696 | 8,958 | 598,726 | 8,477 | 616,857 |
| Coal tar rofining | ton | 5,054 | 658 | 11,781 | 522 | 17,995 |
| industry | \$ | 46,689 | 6. 076 | 88,497 | 6.673 | 147,935 |
| TOTAL | ton | $\begin{array}{r} 565,025 \\ 4,013,092 \end{array}$ | $\begin{array}{r} 512,743 \\ 5.081,480 \end{array}$ | $\begin{array}{r} 2,272,935 \\ 20.732043 \end{array}$ | $\begin{array}{r} 506,579 \\ 2.272 .155 \end{array}$ | $\begin{array}{r} 3,655,080 \\ 52,704,750 \end{array}$ |

Table 2 - APPARENT COHSUMPTION OF COKE IN CANADA, BY PROVINCES, 1945 (Short tons)

|  | $\begin{aligned} & \text { P.E.T. } \\ & \text { N.S. } \\ & \text { and } N_{0} B_{0} \end{aligned}$ | Quebac | Man., Sask.A bartario bertaand Bo. |  | CANADA |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Production | 563,023 | 512,743 | 2,272,935 | 306, 379 | 3,655,080 |
| Add declines or deduct increases in producers' stocks ...... | +1,565 | +1.585 | -28,850 | 2.512 |  |
|  | 564,588 | 514,601 | 2,244,085 | 303,867 | 3,627,141 |
| Add declines or deduct increases in dealers' stocks $\qquad$ | -867 | -2,993 | -71.190 | -112 | -75,162 |
|  | 565,721 | 511,608 | 2,172,895 | 308,755 | 3,551,979 |
| Add imports anterod for consumption | 72 | 308,121 | 909,228 | 38,364 | 1,255,785 |
|  | 563,793 | 819,729 | 3,082,123 | 342,119 | 4,807,764 |
| Doduct exports and re-sxports.. | 5,357 | 1,300 | 53,137 | 44,653 | 104,927 |
| APPARENT CONSUMPTION ... | 557,956 | 818,429 | 3,028,986 | 297,466 | 4,702,837 |

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 - CONSUMPIION OF COKE IN CANADA IN SMELTING FURNACES AND CUPOLAS, BY INDUS

| Industry |  | $\begin{aligned} & \text { P. E.I. } \\ & \text { N.S. } \\ & \text { and N.B. } \end{aligned}$ | Quebec | Ontario | an., Sask <br> Al berta <br> and $B, C$, | CAMADA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pig iron, fermo-alloys, |  |  |  |  |  |  |
| steel ingots and stecl | ton | 589,202 | 8,542 | 1,521,696 | 1,472 | 1,720,912 |
| castings | \$ | 2,623, 359 | 80,870 | 11, 905,772 | 19,576 | 14,627,577 |
| Iron castings | ton | 1,516 | 15,155 | 42,168 | 5,645 | 62,184 |
|  | \$ | 24,267 | 207,592 | 653,347 | 102,639 | 987,845 |
| Heating and-cooking apparatus | ton | 1,558 | 1,775 | 6,523 | . 917 | 10,571 |
|  | * | 29,256 | 28,216 | 100,744 | 15,092 | 171, 508 |
| Bollers, tanks and platework ........ | ton | 292 | 5,600 | 6,099 | ... | 11,991 |
|  | \$ | 5,504 | 100,404 | 96,728 | ... | 202,636 |
| Farn implements and machinery | ton | ... | 250 | 6,437 | 135 | 6,822 |
|  | * |  | 2,732 | 110,184 | 3,100 | 116,016 |
| Machinery |  | 600 | 5,846 | 8,577 | 2,058 | 17,081 |
|  | \$ | 6,713 | 122,521 | 135,259 | 40,159 | 302,612 |

Table 3 - CONSUMPTION OF COKE IN CANADA IN SMELIT NG FURNACBS AND CUPOLAS, BY INDUS TRI RS, 1943 - Concl uded

| Industry |  | .E.I. N.S. nd $\mathrm{N}, \mathrm{B}$. | Quebec | Ontario | n.,Sask., Al berta and $\mathrm{B}_{2} \mathrm{C}_{2}$ | CANADA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Railway rolling stock.. | ton | 2,152 | 9,300 | 11,275 | 4,971 | 27,698 |
|  | * | 41,278 | 134,596 | 180,555 | 102,999 | 459,428 |
| Automotile parts..... | ton |  | ... | 9,239 |  | 9,259 |
|  | \$ |  |  | 154,776 | ... | 154,776 |
| Other iron and steel ... |  | 312 | 25 | 145 | 459 | 921 |
|  | \$ | 2,657 | 250 | 1,831 | 9,618 | 14,356 |
| Non-fermous metallurgical works ............. |  |  | 2,478 | 295,187 | 74,440 | 372,105 |
|  | $\$$ |  | 35,859 | 3, 585,575 | 692,884 | 4,512,298 |
| Brass foundries ....... | ton | 251 | 926 | 3,578 | 483 | 5,238 |
|  | 1 | 4,512 | 11,697 | 48,099 | 10,700 | 75,008 |
| TOTAL |  | $395,883$ | $47,895$ | $1,710,724$ | 90,560 | 2,245,062 |
|  | - | 737,546 | 722.717 | $16.968,850$ | 994.747 | 21,423,860 |

Table 4 - CONSIMPTION OF COKE IN CANADA AS MANUFACTURING MATERIAL(x), BY INDUSTEIES,

(x) For making calcium carbide, carbon dioxide, artificial abrasives, water gas, carbon electrodes, foundry facings, rock wool, etc.

Table 5 - CONSUMPITON OF COKE IN CANADA AS INDUSTRIAL FUEL IN THE MANUFACTURLNG, MINING AND SMELTING INDUSTRIES, 1943

| Industry |  | P.E.I. N. S. and $\mathrm{N}, \mathrm{B}$. | Quebec | Ontario | Man.,Sask., Al berta and B.C. | CANADA |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturing |  |  |  |  |  |  |
| Chemicals and allied prod- |  | 47 | 4,869 | 2,118 | 521 | 7,555 |
| ucts | \$ | 507 | 44,376 | 24,875 | 5,813 | 75,571 |
| Iron and steel and their | ton | 17,989 | 18,922 | 56,452 | 7,586 | 100,949 |
| products | \$ | 59,425 | 221,844 | 325,123 | 119,559 | 725,951 |
| Non-ferrous metel products | ton |  | 1,639 | 17, 519 | 93 | 19,230 |
| (excluding smel tors) . | \$ |  | 21,710 | 223,601 | 1,369 | 246,710 |
| Non-metallic mineral prod- | ton | 5,730 | 25,899 | 136,653 | 7,932 | 174, 214 |
| ucts (excluding cemont, lime, clay and salt) | \$ | 40,461 | 126,109 | 830,10? | 49,113 | 1,045,785 |
| Animal products | ton | 100 | 398 | 9,412 | 119 | 10,029 |
|  | \$ | 1,316 | 4,763 | 52,325 | 940 | 59,344 |
| Textile products |  | 73 | 526 | 386 | 5 | 990 |
|  | $\$$ | 705 | 7,321 | 4,360 | 63 | 12,449 |
| Vogetable products ....... | ton | 8,910 | 8,966 | 21,008 | 4,040 | 42,924 |
|  | \$ | 95,308 | 112,178 | 267,674 | 52,820 | 527,980 |
| Hood and paper products .. | ton | 87 | 531 | 1,469 | 146 | 2,235 |
|  | \$ | 1,175 | 6,289 | 14,874 | 1,775 | 24,113 |
| Miscellaneous products ... | ton |  | 256 | 120 | 33 | 409 |
|  | 5 |  | 3,049 | 1,557 | 508 | 5,114 |
| Total Manufacturing Industries ...... | ton | 32,936 | 60,006 | 245,166 | 20,475 | 358,583 |
|  | \$ | 198,897 | 547,669 | $1,744.491$ | 231,960 | 2.723 .017 |
| $\frac{\text { Mining Industries }}{\text { TOTAL . . }}$ | ton | 2,942 | 437 | 39,821 | 1,499 | 44,699 |
|  | \$ | 19,614 | 5,143 | 300,159 | 17.020 | 541,935 |
|  | ton | 35,878 | 60,413 | 284,987 | 21,374 | 403,292 |
|  | 1 | 218,511 | 552,812 | 2,044,649 | 248.980 | 5,064.952 |

Table 6 - ANALYSIS OF COKE CONSUMPTION IN CANADA, BY PRINCIPAL USES, 1943, WITH COMPARATIVE DATA FOR 1941 and 1942 (Short tons)

| P.E.I., |
| :--- |
| N.S. Quebec OntarioMan, Sask., <br> Alborta <br> and B. |

1943
Fumace charges
Manufacturing material..
Industrial fuel .........
Available for oticer uses
(mostly domestic) .....
APPARENT CONSUMPTION ..

| 395,833 | 47,895 | $1,710,724$ | 90,560 | $2,245,062$ |
| ---: | ---: | ---: | ---: | ---: |
| 35,878 | 423,107 | 328,123 | 70,404 | 821,659 |
|  | 60,443 | 284,987 | 21,974 | 403,282 |
| 126,225 | 286,984 | 705,147 | 114,529 | $1,232,854$ |
| 557,986 | 818,420 | $3,028,386$ | 297,466 | $4,702,837$ |


| Furnace charges | 510,725 | 49,312 | 1,763,242 | 33,722 | 2,417,001 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Manuracturing materia |  | 298,191 | 273, 354 | 62,695 | 634,240 |
| Industrial fuel | 36,441 | 53,980 | 285,675 | 21,736 | 597,832 |
| Avaflable for other uses (mostily domestic) ..... | 94.712 | 300.022 | 449.373 | 112.943 | 957,050 |
| APPARENT CONSIMPTION. | 641, 878 | 701.505 | 2,771,644 | 291,096 | 4,406,123 |

Coke

Table 6 - ANALYSIS OF COKE CONSURPMION IV CANADA, BY PRINCIPAL USES, 1943, WITH COMPARATIVE DATA FOR 1941 and 1342 - (Short tons)

Concluded

|  | P.E.I. N.S. and N. B. | Quebec | Ontario | Man.,Sask., Al berta and B.C. | CANADA |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1941 |  |  |  |  |  |
| Furnace charges | 450,126 | 44,190 | 1,358,509 | 91,326 | 1,944,151 |
| Manufacturing material.. |  | 249,793 | 192,177 | 67,905 | 509,875 |
| Industrial fuel ........ | 29,097 | 48,923 | 252,272 | 15,169 | 345,766 |
| Avallable for other uses (mostly domestic) ...... | 118.594 | 269,235 | 806.179 | 98.227 | 1,292,235 |
| APPARENT CONSUPPGON. | 597, 1 17. | 612.146 | 2,609,137 | 272,927 | 4,092,027 |

Notes: 1. Figuras showing tie tonnage of coke available for other uses are obtained by difference and include the coke used for purposes other than specifled in these tables. Sales of coke for domestic use by retail coal dealers amounted to 984,000 tons in 1943, and in tiat year the coke producers sold 156,000 tons of coke direct to consumers for domestic use, making total seles of $1,143,000$ tons for this purpose in 1943.
2. No allowance has been made for changes during the year in stocks of coke held by users.
3. No allowance has been made for interprovincial shipments of coke.

STATISIICS CANADA LIERARY

