

amounting to 1,994,039 tons, which represented 17.6 p.c. of the Canadian production. The average output per man-day was 45.0 tons and the coal was valued at the mine at an average of \$1.96 a ton. This is the cheapest source of coal in Canada. The Estevan area serves the provincially owned Boundary Dam thermal-electric generating station which uses a large share of the total lignite production. Almost 31 p.c. of the 1964 output was shipped to Manitoba and 6.6 p.c. to Ontario for industrial, commercial and household use; the remainder was used within the province for similar purposes. Subvention assistance was given on 128,215 tons.

About 21,680 tons of briquettes were produced from carbonized lignite, a decrease of 38 p.c. from the 1963 output.

Alberta.—Several types of coal are available in Alberta, ranging from semi-anthracite mined in the Cascade area to subbituminous. Coking bituminous coals are present in the Inner Foothills Belt but, because of market conditions, they are at present mined mainly in the Cascade and Crowsnest areas and a large part of the production is exported to Japan for use in metallurgical industries. In several areas of the foothills, lower rank bituminous non-coking coals are available but production is confined to the Lethbridge and Coalspur areas. The other coal areas produce subbituminous coals which made up almost 71 p.c. of Alberta's output in 1964 and are used mainly for household and commercial heating and thermal power generation; increasing quantities are being used for the latter purpose. The four largest producing areas for subbituminous coals are Castor, Drumheller, Pembina and Sheerness and mines in these areas produced more than 88 p.c. of the Canadian subbituminous coal output which amounted to 2,104,912 tons in 1964, more than 27 p.c. higher than in the previous year. The output of bituminous coal increased more than 36 p.c. to 866,221 tons.

Total coal production in Alberta increased 29.7 p.c. to 2,971,133 tons, this being about 26.2 p.c. of the nation's coal output. Of the total, 64.3 p.c. was won by stripping, the average output per man-day being 28.2 tons compared with 4.9 tons for underground mines. The average value of bituminous coal was \$6.64 a ton at the mine, and that of subbituminous coal \$2.58 a ton. Of the provincial production, 1.1 p.c. was shipped to Ontario, 4.1 p.c. (mainly subbituminous) to Manitoba, 9.4 p.c. to Saskatchewan and 8.8 p.c. to British Columbia. Subvention assistance from the Federal Government was applied on the movement of 1,052,526 tons of Alberta and British Columbia coal.

The output of briquettes, which are made from the semi-anthracite and low volatile bituminous coals of the Cascade area and the medium volatile coals of the Crowsnest area, was about 38,000 tons.

British Columbia and Yukon Territory.—More than 93 p.c. of British Columbia's coal output came from the Crowsnest area (East Kootenay district) and most of the remainder came from Vancouver Island, with a small output from mines in the northern mainland. The coals range from high volatile to low volatile bituminous coking coals and over 91 p.c. comes from underground mines. Production in 1964 increased to about 1,050,000 tons, representing 9.3 p.c. of the country's output, and had an average value of \$6.02 a ton at the mine. The average output per man-day was 35 tons for strip-mines and 6.8 tons for underground mines.

Beneficiation facilities located at Union Bay (Vancouver Island) and Michel (East Kootenay) process nearly all of British Columbia's coal production. Of the total 1964 production, 13.4 p.c. was shipped to Manitoba, 2.1 p.c. to Ontario and small quantities to Alberta and Saskatchewan. About 396,000 tons of bituminous coking coal from the Crowsnest area were exported, some to the United States but most of it to Japan for blending in the manufacture of metallurgical coke.

In the Yukon Territory, about 7,000 tons of coal were mined from a single underground mine with an average output per man-day of 3.1 tons. This coal was valued at \$13.58 a ton and was all used locally.