

The industry includes three forms of industrial activity: operations in the woods with pulpwood as a product, the manufacture of pulp and the manufacture of paper. Some of the important pulp companies operate sawmills to utilize the larger timber on their limits to the best advantage, and some lumber manufacturers divert a portion of their spruce and balsam logs to pulp-mills. Less than one-fifth of the pulpwood cut in Canada is exported in raw or unmanufactured form and a large portion of such exports is cut from private lands.

16.—Production, Consumption, Exports and Imports of Pulpwood, 1943-52

NOTE.—Figures for earlier years will be found in the corresponding table of previous Year Books.

| Year | Apparent Total Production of Pulpwood in Canada | | | Canadian Pulpwood Used in Canadian Pulp-Mills | | Canadian Pulpwood Exported Unmanufactured | | Imported Pulpwood Used in Canada | |
|----------------------|---|-------------|------------------------|---|--------------------------|---|--------------------------|----------------------------------|---------------------------|
| | Quantity ¹ | Total Value | Average Value per Cord | Quantity ¹ | P.C. of Total Production | Quantity ¹ | P.C. of Total Production | Quantity ¹ | P.C. of Total Consumption |
| | cords | \$ | \$ | cords | | cords | | cords | |
| 1943.. | 8,801,368 | 110,844,790 | 12.59 | 7,260,776 | 82.5 | 1,540,592 | 17.5 | 2,379 | -- |
| 1944.. | 8,668,566 | 124,363,926 | 14.35 | 7,169,430 | 82.7 | 1,499,136 | 17.3 | 8,209 | 0.1 |
| 1945.. | 9,145,673 | 146,172,701 | 15.98 | 7,474,375 | 81.7 | 1,671,298 | 18.3 | 4,133 | -- |
| 1946.. | 10,523,256 | 183,085,359 | 17.40 | 8,667,875 | 82.4 | 1,855,381 | 17.6 | 16,881 | 0.2 |
| 1947.. | 11,484,522 | 237,488,741 | 20.65 | 9,500,542 | 82.7 | 1,983,980 | 17.3 | 50,508 | 0.5 |
| 1948.. | 12,497,926 | 284,656,819 | 22.78 | 10,180,580 | 81.5 | 2,317,346 | 18.5 | 75,969 | 0.7 |
| 1949 ² .. | 11,850,254 | 270,697,980 | 22.84 | 10,237,976 | 86.4 | 1,612,278 | 13.6 | 5,491 | -- |
| 1950.. | 12,873,476 | 285,762,620 | 22.20 | 11,138,578 | 86.5 | 1,734,898 | 13.5 | 28,220 | 0.3 |
| 1951.. | 15,053,910 | 381,920,846 | 25.37 | 12,182,737 | 80.9 | 2,871,173 | 19.1 | 46,634 | 0.4 |
| 1952.. | 14,102,670 | 396,102,104 | 28.09 | 11,609,407 | 82.3 | 2,493,263 | 17.7 | 30,784 | 0.3 |

¹ Given in terms of rough or unpeeled wood.

² Newfoundland included from 1949.

Pulp Production.—The manufacture of pulp, the second stage in this industry, is carried on by mills producing pulp only and also by paper manufacturers operating pulp-mills in conjunction with paper-mills to provide their own raw material. Such mills usually manufacture a surplus of pulp for sale in Canada or for export. Spruce, supplemented by balsam fir in the east and by hemlock in the west, is the most suitable species of wood for the production of all but the best classes of paper.

The preliminary preparation of pulpwood is frequently carried on at the pulp-mill, but there are also a number of 'cutting-up' and 'rossing' mills operating on an independent basis, chiefly for the purpose of saving freight on material cut at a distance from the mill or on material intended for export. Pulpwood is measured by the cord (4' by 4' by 8' of piled material). One cord of rough pulpwood contains approximately 85 cu. feet of solid wood, and one cord of peeled pulpwood 95 cu. feet.

Of the total 1952 pulp production, 74.3 p.c. was made in combined pulp- and paper-mills for their own use in manufacturing paper. The remainder was made for sale in Canada or for export. About 58 p.c. was groundwood pulp and almost 18 p.c. unbleached sulphite fibre, these being the principal components of newsprint paper. Bleached sulphite, bleached, semi-bleached and unbleached sulphate, soda fibre, semi-chemical, other grades and groundwood and chemical screenings made up the remainder. A considerable market has developed for screenings in connection with the manufacture of rigid insulating boards.

The manufacture of the 8,968,009 tons of pulp produced in 1952 entailed the use of 11,640,191 cords of rough pulpwood valued at \$334,824,403 and the equivalent of 317,556 rough cords of other wood (i.e., sawmill chips, slabs and edgings, sawdust, butt cores, etc.) valued at \$8,242,632. The total value of materials used in the manufacture of pulp was \$389,372,852.