



HD9834  
C22C33  
1971



MANAGEMENT LIBRARY



MANAGEMENT LIBRARY  
McGILL UNIVERSITY







# Index

| Subject                                                                                          | Table | Page      |
|--------------------------------------------------------------------------------------------------|-------|-----------|
| <b>I. The Pulp and Paper Industry in 1970</b>                                                    |       | <b>5</b>  |
| National significance                                                                            | 1     | 5         |
| Shipments by products                                                                            | 2     | 5         |
| Shipments by areas                                                                               | 3     | 5         |
| Production by provinces                                                                          | 4     | 5         |
| Production ratios                                                                                | 5     | 5         |
| Employees                                                                                        | 6     | 5         |
| Earnings                                                                                         | 7     | 5         |
| Pulpwood consumption, by provinces                                                               | 8     | 5         |
| Pulpwood consumption, by species                                                                 | 9     | 6         |
| Mill locations 1970                                                                              | 10    | 6         |
| Pulp, paper and paper products exports 1970                                                      | 11    | 6         |
| <b>II. Forests and Wood Supply</b>                                                               |       | <b>7</b>  |
| Pulpwood consumption by pulp and paper mills                                                     | 12    | 7         |
| Apparent pulpwood production                                                                     | 13    | 7         |
| Pulpwood exports and imports                                                                     | 14    | 7         |
| Forest extent                                                                                    | 15    | 7         |
| Forest volume                                                                                    | 16    | 7         |
| <b>III. Pulp</b>                                                                                 |       | <b>8</b>  |
| Wood pulp production                                                                             | 17    | 8         |
| Wood pulp annual capacity                                                                        | 18    | 8         |
| Wood pulp exports, by grades                                                                     | 19    | 9         |
| Wood pulp exports, by areas                                                                      | 20    | 9         |
| Sulphate pulp exports, by areas                                                                  | 21    | 9         |
| Dissolving and special alpha pulps (sulphite and sulphate)                                       | 22    | 10        |
| Sulphite pulp, paper grades                                                                      | 23    | 10        |
| Sulphate pulp, paper grades                                                                      | 24    | 10        |
| Mechanical pulp                                                                                  | 25    | 11        |
| Wood pulp imports                                                                                | 26    | 11        |
| Sources of U.S. pulp supply                                                                      | 27    | 12        |
| Average value per ton of U.S. pulp imports from Canada                                           | 28    | 12        |
| Consumption in Canada of wood pulp for paper, paperboard, and other board production, by kinds   | 29    | 12        |
| Consumption in Canada of wood pulp for paper, paperboard, and other board production, by sources | 30    | 13        |
| <b>IV. Newsprint</b>                                                                             |       | <b>14</b> |
| Newsprint production                                                                             | 31    | 14        |
| Newsprint capacity                                                                               | 32    | 14        |
| Newsprint shipments                                                                              | 33    | 14        |
| Newsprint exports by areas                                                                       | 34    | 14        |
| Value of newsprint production and exports                                                        | 35    | 15        |
| Value of newsprint and total pulp and paper production                                           | 36    | 15        |
| Sources of U.S. newsprint supply                                                                 | 37    | 15        |
| U.S.: prices and price indexes                                                                   | 38    | 15        |
| U.S. newsprint industry                                                                          | 39    | 16        |
| U.S. newsprint consumption and stocks                                                            | 40    | 16        |
| Consumption by larger newspapers                                                                 | 41    | 16        |
| <b>V. Other Paper and Paperboard</b>                                                             |       | <b>17</b> |
| Paperboard production                                                                            | 42    | 17        |
| Production, other papers and boards                                                              | 43    | 17        |
| Exports of paper (except newsprint) and paperboard, tonnage                                      | 44    | 18        |
| Exports of paper (except newsprint) and paperboard, value                                        | 45    | 18        |
| Exports of paper (except newsprint) and paperboard, by areas                                     | 46    | 18        |
| Exports of paper products                                                                        | 47    | 18        |
| Other paper and paperboard annual productive capacity                                            | 48    | 19        |
| Imports of paper and paperboard, and paper goods                                                 | 49    | 19        |
| <b>VI. National Significance</b>                                                                 |       | <b>20</b> |
| Pulp and paper production and the national income                                                | 50    | 20        |
| Pulp and paper exports and Canadian trade                                                        | 51    | 20        |
| Growth of the industry                                                                           | 52    | 20        |
| Principal Canadian exports                                                                       | 53    | 20        |
| Capital expenditures                                                                             | 54    | 21        |
| Ten leading Canadian manufacturing industries 1968                                               | 55    | 21        |
| Exports of Canadian products to the United States                                                | 56    | 21        |
| Principal statistics by provinces, 1969                                                          | 57    | 22        |
| Canadian consumption of paper and paperboard                                                     | 58    | 22        |
| Growth rates of the pulp and paper industry, the total economy and selected groups of industries | 59    | 22        |
| Employees and wages                                                                              | 60    | 23        |
| Capital and employees                                                                            | 61    | 23        |
| Payrolls and weekly earnings in important industries                                             | 62    | 23        |
| Operations and mills 1970                                                                        | 63    | 23        |
| Principal statistics of the paper converting industries                                          | 64    | 23        |
| Car loadings                                                                                     | 65    | 24        |
| Summary of shipments of goods of own manufacture                                                 | 66    | 24        |
| Price Indices                                                                                    | 67    | 24        |

| Subject                                       | Table | Page      |
|-----------------------------------------------|-------|-----------|
| <b>VII. World Figures</b>                     |       | <b>25</b> |
| World production and consumption of wood pulp | 68    | 25        |
| World production of wood pulp, by grades      | 69    | 26        |
| World forestry data                           | 70    | 26        |
| World exports of wood pulp, by countries      | 71    | 26        |
| World production and consumption of newsprint | 72    | 27        |
| World exports of newsprint                    | 73    | 28        |

## Notes to the Tables

These Reference Tables are published annually as a statistical review of the Canadian pulp and paper industry, its growth and development, its place in the Canadian economy, and its position in the great world industry of which it forms so significant a part.

For some products, the figures in the Tables differ somewhat from those in the monthly Statistical Bulletin, also published by the Canadian Pulp and Paper Association. One of the reasons is that Dominion Bureau of Statistics grade classifications are slightly different, in a few instances, from those of the Canadian Pulp and Paper Association. In addition, the monthly Statistical Bulletin does not include statistics for several companies which are not members of CPPA. These companies account for some two per cent of the total pulp and paper output in Canada.

All quantities in the Tables are in short tons of 2,000 pounds and, for wood pulp, are expressed on an air-dry basis.

For the preparation of these tables grateful acknowledgement is made to L. J. Pouliot, formerly chief of the Forestry Section of the Dominion Bureau of Statistics, Ottawa.

Copies of Reference Tables, within a reasonable number, are available from  
Canadian  
Pulp and Paper  
Association,  
2300 Sun Life Building,  
Montreal 110, P.Q.

25th edition, August 1971





# I. The Pulp and Paper Industry in 1970

1

| National significance                                                                       | 1970                    | 1969       |
|---------------------------------------------------------------------------------------------|-------------------------|------------|
|                                                                                             | \$'000                  | \$'000     |
| Gross production of pulp and paper mills <sup>1</sup>                                       | 2,685,354 <sup>2</sup>  | 2,771,276  |
| Gross national product                                                                      | 84,568,000 <sup>3</sup> | 78,560,000 |
| Capital expenditures of pulp and paper mills                                                | 469,300                 | 325,700    |
| Pulp and paper exports                                                                      | 2,063,395               | 2,014,069  |
| Total domestic exports                                                                      | 16,458,183              | 14,503,638 |
| Ratio of pulp and paper exports to total domestic exports                                   | 12.54%                  | 13.89%     |
| Pulp and paper exports to United States                                                     | 1,436,227               | 1,502,043  |
| Total domestic exports to United States                                                     | 10,641,119              | 10,273,650 |
| Ratio of pulp and paper exports to United States to total domestic exports to United States | 13.50%                  | 14.62%     |

1. Value of shipments of goods of own manufacture.

2. Canadian Pulp and Paper Association estimate.

3. Preliminary.

Source: Dominion Bureau of Statistics.

2

| Shipments by products                            | 1970          | 1970          | 1969          | 1969          |
|--------------------------------------------------|---------------|---------------|---------------|---------------|
|                                                  | '000 Tons     | %             | '000 Tons     | %             |
| Wood pulp <sup>1</sup>                           | 6,570         | 34.70         | 6,899         | 35.59         |
| Chemical                                         | 6,245         | 32.98         | 6,588         | 33.99         |
| Mechanical and other grades                      | 325           | 1.72          | 311           | 1.60          |
| Paper and board                                  | 12,365        | 65.30         | 12,486        | 64.41         |
| Newsprint <sup>2</sup>                           | 8,712         | 46.01         | 8,863         | 45.72         |
| Paperboard                                       | 1,727         | 9.12          | 1,744         | 9.00          |
| Building boards                                  | 358           | 1.89          | 393           | 2.03          |
| Book and writing papers                          | 839           | 4.43          | 731           | 3.77          |
| Wrapping papers                                  | 474           | 2.50          | 497           | 2.56          |
| Tissue and sanitary papers                       | 122           | 0.64          | 121           | 0.62          |
| Building papers                                  | 113           | 0.60          | 117           | 0.60          |
| Special industrial papers and wet machine boards | 20            | 0.11          | 20            | 0.10          |
| <b>Total<sup>3</sup></b>                         | <b>18,935</b> | <b>100.00</b> | <b>19,385</b> | <b>100.00</b> |

1. Including shipments to subsidiary and affiliated companies.

2. Dominion Bureau of Statistics classification includes some grades not classed as newsprint by the Newsprint Division of the Canadian Pulp and Paper Association.

3. As much of the pulp shipped to Canadian customers and Canadian affiliated mills was utilized in the manufacture of paper and board, there is some duplication in this figure.

Source: 1969: Dominion Bureau of Statistics; 1970: Canadian Pulp and Paper Association estimates.

3

| Shipments by areas           | 1970                      | 1970          | 1969          | 1969          |
|------------------------------|---------------------------|---------------|---------------|---------------|
|                              | '000 Tons                 | %             | '000 Tons     | %             |
| Used in Canada               | 4,241 <sup>1</sup>        | 22.40         | 4,480         | 23.11         |
| Exported <sup>2</sup> to     | 14,694                    | 77.60         | 14,905        | 76.89         |
| United States                | 9,982                     | 52.71         | 10,753        | 55.47         |
| United Kingdom               | 1,137                     | 6.01          | 1,050         | 5.42          |
| Western Europe               | 1,276                     | 6.74          | 1,148         | 5.92          |
| South America                | 443                       | 2.34          | 396           | 2.04          |
| Japan                        | 628                       | 3.32          | 668           | 3.45          |
| Australia and New Zealand    | 275                       | 1.45          | 247           | 1.27          |
| Central America and Antilles | 335                       | 1.77          | 258           | 1.33          |
| All others                   | 618                       | 3.26          | 385           | 1.99          |
| <b>Total<sup>1</sup></b>     | <b>18,935<sup>1</sup></b> | <b>100.00</b> | <b>19,385</b> | <b>100.00</b> |

1. As much of the pulp shipped to Canadian customers and Canadian affiliated mills was utilized in the manufacture of paper and board, there is some duplication in this figure.

2. Excluding paper products for which tonnage not available, valued at \$4,565,000 in 1969 and \$6,668,000 in 1970.

3. Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.

4

| Production by provinces | Wood pulp 1970 <sup>1</sup> | Wood pulp 1969 <sup>1</sup> | Basic paper and board 1970 <sup>1,2</sup> | Basic paper and board 1969 <sup>2</sup> |
|-------------------------|-----------------------------|-----------------------------|-------------------------------------------|-----------------------------------------|
|                         | '000 Tons                   | '000 Tons                   | '000 Tons                                 | '000 Tons                               |
| Quebec                  | 6,718                       | 6,547                       | 5,620                                     | 5,675                                   |
| Ontario                 | 3,886                       | 3,961                       | 3,152                                     | 3,182                                   |
| British Columbia        | 4,478                       | 4,879                       | 1,904                                     | 1,922                                   |
| Other Provinces         | 3,308                       | 3,203                       | 1,719                                     | 1,736                                   |
| <b>Total</b>            | <b>18,390</b>               | <b>18,590</b>               | <b>12,395</b>                             | <b>12,515</b>                           |

1. Canadian Pulp and Paper Association estimate.

2. Excluding building board.

Source: Dominion Bureau of Statistics.

5

| Production ratios | 1970 | 1969 |
|-------------------|------|------|
|                   | %    | %    |
| Newsprint         | 87   | 89   |
| Chemical pulps    | 87   | 89   |
| Paperboard        | 88   | 97   |
| Other papers      | 89   | 89   |

Note: These ratios represent actual production as a percentage of productive capacity, as estimated by the Canadian Pulp and Paper Association.

6

| Employees                             | 1970                | 1969                |
|---------------------------------------|---------------------|---------------------|
| Mill, head office and ancillary units | 75,169 <sup>1</sup> | 75,427              |
| Woods, permanent and seasonal         | 81,227 <sup>2</sup> | 85,502 <sup>2</sup> |
| <b>Total</b>                          | <b>156,396</b>      | <b>160,929</b>      |

1. Dominion Bureau of Statistics estimate.

2. Woodlands Section, Canadian Pulp and Paper Association estimate.

7

| Wages paid                            | 1970                 | 1969                 |
|---------------------------------------|----------------------|----------------------|
|                                       | \$'000               | \$'000               |
| Mill, head office and ancillary units | 633,896 <sup>1</sup> | 611,591              |
| Woods                                 | 342,365 <sup>2</sup> | 332,588 <sup>2</sup> |
| <b>Total</b>                          | <b>976,261</b>       | <b>944,179</b>       |

1. Dominion Bureau of Statistics estimate.

2. Woodlands Section, Canadian Pulp and Paper Association estimate.

8

| Pulpwood consumption by provinces | Roundwood 1970 | Wood residue 1970 | Roundwood 1969 | Wood residue 1969 |
|-----------------------------------|----------------|-------------------|----------------|-------------------|
|                                   | '000 Cunits    | '000 Cunits       | '000 Cunits    | '000 Cunits       |
| Atlantic Provinces                | 3,169          | 410               | 2,956          | 398               |
| Quebec                            | 6,447          | 1,228             | 6,237          | 1,160             |
| Ontario                           | 3,901          | 557               | 3,960          | 536               |
| Prairie Provinces                 | 664            | 57                | 718            | 47                |
| British Columbia                  | 2,860          | 4,254             | 3,412          | 4,254             |
| <b>Total</b>                      | <b>17,041</b>  | <b>6,506</b>      | <b>17,283</b>  | <b>6,395</b>      |

Sources: 1969: Dominion Bureau of Statistics; 1970: Canadian Pulp and Paper Association estimates from DBS preliminary data.



| Pulpwood consumption,<br>by species     | 1970          | 1970         | 1969          | 1969         |
|-----------------------------------------|---------------|--------------|---------------|--------------|
|                                         | '000 Cunits   | %            | '000 Cunits   | %            |
| Roundwood                               | 17,041        | 72.4         | 17,283        | 73.0         |
| <i>Spruce and Balsam</i>                | 12,036        | 51.1         | 11,880        | 50.2         |
| <i>Hemlock</i>                          | 1,672         | 7.1          | 1,986         | 8.4          |
| <i>Jack Pine</i>                        | 1,561         | 6.7          | 1,584         | 6.7          |
| <i>Other softwoods</i>                  | 326           | 1.4          | 387           | 1.6          |
| <i>Poplar, Aspen and<br/>Cottonwood</i> | 595           | 2.5          | 612           | 2.6          |
| <i>Other hardwoods</i>                  | 851           | 3.6          | 834           | 3.5          |
| Wood residue                            | 6,506         | 27.6         | 6,395         | 27.0         |
| <b>Total</b>                            | <b>23,547</b> | <b>100.0</b> | <b>23,678</b> | <b>100.0</b> |

Sources : 1969 : Dominion Bureau of Statistics ; 1970 : Canadian Pulp and Paper Association estimates from DBS preliminary data.

## 11

| Pulp, paper and paper products<br>exports 1970   | Total exports | Total exports    | To U.S.A.    | To U.S.A.        | To United<br>Kingdom | To United<br>Kingdom | To other<br>countries | To other<br>countries |
|--------------------------------------------------|---------------|------------------|--------------|------------------|----------------------|----------------------|-----------------------|-----------------------|
|                                                  | '000 Tons     | \$'000           | '000 Tons    | \$'000           | '000 Tons            | \$'000               | '000 Tons             | \$'000                |
| <b>Pulp</b>                                      | <b>5,582</b>  | <b>785,228</b>   | <b>3,316</b> | <b>485,453</b>   | <b>377</b>           | <b>49,540</b>        | <b>1,889</b>          | <b>250,235</b>        |
| Dissolving and special alpha                     | 333           | 63,869           | 214          | 41,961           | 17                   | 3,206                | 102                   | 18,702                |
| Sulphate, paper grades                           | 4,290         | 609,381          | 2,423        | 361,939          | 316                  | 41,523               | 1,551                 | 205,919               |
| <i>Bleached softwood</i>                         | 3,034         | 445,236          | 1,768        | 273,807          | 178                  | 23,597               | 1,088                 | 147,832               |
| <i>Bleached hardwood</i>                         | 379           | 54,941           | 271          | 38,691           | 50                   | 7,572                | 58                    | 8,678                 |
| <i>Semi-bleached</i>                             | 515           | 67,509           | 148          | 21,602           | 63                   | 7,707                | 304                   | 38,200                |
| <i>Unbleached</i>                                | 361           | 47,695           | 235          | 27,839           | 25                   | 2,647                | 101                   | 11,209                |
| Sulphite, paper grades                           | 664           | 94,206           | 498          | 70,425           | 27                   | 3,841                | 139                   | 19,940                |
| <i>Bleached</i>                                  | 485           | 71,780           | 397          | 57,572           | 16                   | 2,253                | 72                    | 11,955                |
| <i>Unbleached, strong</i>                        | 158           | 19,347           | 83           | 10,332           | 11                   | 1,456                | 64                    | 7,559                 |
| <i>Unbleached, news grade</i>                    | 22            | 3,079            | 18           | 2,521            | 1                    | 132                  | 3                     | 426                   |
| Mechanical                                       | 277           | 17,332           | 163          | 10,688           | 17                   | 970                  | 97                    | 5,674                 |
| <i>Bleached</i>                                  | 13            | 732              | 3            | 193              | 4                    | 218                  | 6                     | 321                   |
| <i>Unbleached</i>                                | 264           | 16,600           | 160          | 10,495           | 13                   | 752                  | 91                    | 5,353                 |
| Other pulps <sup>1</sup>                         | 16            | 389              | 16           | 389              |                      |                      |                       |                       |
| Screenings, chemical                             | 2             | 51               | 2            | 51               |                      |                      |                       |                       |
| <b>Newsprint</b>                                 | <b>8,134</b>  | <b>1,113,240</b> | <b>6,225</b> | <b>873,378</b>   | <b>463</b>           | <b>59,622</b>        | <b>1,446</b>          | <b>180,240</b>        |
| Standard                                         | 8,090         | 1,110,393        | 6,212        | 872,544          | 462                  | 59,596               | 1,416                 | 178,235               |
| Mutilated                                        | 44            | 2,847            | 13           | 834              | 1                    | 26                   | 30                    | 1,987                 |
| <b>Other paper, and paperboard</b>               | <b>967</b>    | <b>146,149</b>   | <b>438</b>   | <b>70,450</b>    | <b>294</b>           | <b>42,707</b>        | <b>234</b>            | <b>32,992</b>         |
| Wrapping paper                                   | 112           | 18,125           | 15           | 3,086            | 79                   | 12,108               | 18                    | 2,931                 |
| <i>Bleached sulphite and sulphate</i>            | 11            | 2,560            | 10           | 2,127            | 1                    | 333                  | 3                     | 100                   |
| <i>Unbleached sulphite and sulphate</i>          | 100           | 15,436           | 5            | 864              | 78                   | 11,750               | 17                    | 2,822                 |
| <i>Wrapping<sup>4</sup></i>                      | 3             | 129              | 3            | 95               | 3                    | 25                   | 3                     | 9                     |
| Book and writing paper                           | 339           | 69,636           | 272          | 51,862           | 26                   | 6,505                | 41                    | 11,269                |
| <i>Groundwood printing<sup>4</sup></i>           | 153           | 25,138           | 149          | 24,246           |                      |                      | 4                     | 892                   |
| <i>Paper for printing<sup>4</sup></i>            | 85            | 19,095           | 58           | 13,202           | 16                   | 3,311                | 11                    | 2,582                 |
| <i>Writing and reproduction</i>                  | 57            | 16,384           | 30           | 7,778            | 6                    | 1,866                | 21                    | 6,740                 |
| <i>Fine paper<sup>4</sup></i>                    | 9             | 2,517            | 1            | 134              | 5                    | 1,328                | 3                     | 1,055                 |
| Paperboard                                       | 320           | 38,825           | 23           | 3,787            | 176                  | 21,807               | 121                   | 13,231                |
| <i>Liner board</i>                               | 201           | 26,433           | 3            | 35               | 140                  | 18,183               | 61                    | 8,215                 |
| <i>Container board<sup>4</sup></i>               | 102           | 8,534            | 10           | 761              | 33                   | 3,016                | 59                    | 4,757                 |
| <i>Solid bleached and folding boxboard</i>       | 2             | 439              | 3            | 75               | 2                    | 311                  | 3                     | 53                    |
| <i>Set-up boxboard<sup>4</sup></i>               | 5             | 888              | 4            | 754              | 1                    | 131                  | 3                     | 3                     |
| <i>Wet machine board</i>                         | 4             | 1,747            | 3            | 1,557            | 3                    | 101                  | 3                     | 89                    |
| <i>Paperboard<sup>4</sup></i>                    | 6             | 784              | 5            | 605              | 3                    | 65                   | 1                     | 114                   |
| Building board                                   | 64            | 7,109            | 51           | 5,607            | 9                    | 989                  | 4                     | 513                   |
| <i>Rigid insulating board</i>                    | 12            | 1,364            | 10           | 1,122            | 3                    | 37                   | 2                     | 205                   |
| <i>Hardboard</i>                                 | 51            | 5,667            | 40           | 4,417            | 9                    | 950                  | 2                     | 300                   |
| <i>Building board<sup>4</sup></i>                | 1             | 77               | 1            | 68               | 3                    | 2                    | 3                     | 7                     |
| Asphalt shingles                                 | 38            | 2,025            | 10           | 502              | 3                    | 14                   | 28                    | 1,509                 |
| Roofing and building paper <sup>4</sup>          | 18            | 1,387            | 11           | 778              | 3                    | 42                   | 7                     | 567                   |
| Tissue paper, except sanitary                    | 3             | 1                | 3            | 1                |                      |                      |                       |                       |
| Sanitary paper                                   | 18            | 4,784            | 6            | 1,641            | 3                    | 997                  | 9                     | 2,146                 |
| Hanging, not printed                             | 1             | 500              | 1            | 458              |                      |                      | 3                     | 42                    |
| Special industrial paper                         | 1             | 295              | 3            | 79               | 3                    | 75                   | 3                     | 141                   |
| Coated paper, except machine coated              | 2             | 658              | 1            | 206              | 1                    | 170                  | 3                     | 282                   |
| Waste paper <sup>4</sup>                         | 54            | 2,804            | 48           | 2,443            | 3                    | 3                    | 6                     | 361                   |
| <b>Paper products<sup>2</sup></b>                | <b>11</b>     | <b>18,748</b>    | <b>3</b>     | <b>6,946</b>     | <b>3</b>             | <b>3,136</b>         | <b>5</b>              | <b>8,666</b>          |
| Paper bags and multiwall sacks                   |               | 658              |              | 139              |                      | 21                   |                       | 498                   |
| Boxes and cartons, paperboard, and parts         |               | 2,412            |              | 894              |                      | 95                   |                       | 1,423                 |
| Paper shipping containers and parts <sup>4</sup> |               | 1,760            |              | 1,022            |                      | 12                   |                       | 726                   |
| Hanging or wallpaper, printed                    | 3             | 5,111            | 2            | 3,405            |                      |                      | 1                     | 1,706                 |
| Packaged toilet paper                            | 2             | 666              | 3            | 91               |                      |                      | 2                     | 575                   |
| Notebooks, scribblers and pads                   |               | 273              |              | 19               |                      | 1                    |                       | 253                   |
| Stationery, paper office supplies <sup>4</sup>   |               | 948              |              | 337              |                      | 43                   |                       | 568                   |
| Converted paper <sup>4</sup>                     | 6             | 6,303            | 1            | 492              | 3                    | 2,963                | 2                     | 2,848                 |
| Paper end products <sup>4</sup>                  |               | 617              |              | 547              |                      | 1                    |                       | 69                    |
| <b>Total</b>                                     | <b>14,694</b> | <b>2,063,365</b> | <b>9,982</b> | <b>1,436,227</b> | <b>1,137</b>         | <b>155,005</b>       | <b>3,574</b>          | <b>472,133</b>        |

Note : Because quantities reported in hundredweights have been converted into thousands of tons and values reported in dollars have been rounded into thousands of dollars, breakdowns by grades or countries do not always cross-add.

1. Mechanical screenings included.

## 10

| Mill locations 1970 <sup>1</sup> | Pulp mills | Pulp &<br>paper mills | Paper mills | Total      |
|----------------------------------|------------|-----------------------|-------------|------------|
| Newfoundland                     |            | 2                     |             | 2          |
| Nova Scotia                      | 4          | 1                     |             | 5          |
| New Brunswick                    | 6          | 4                     | 1           | 11         |
| Quebec                           | 7          | 34                    | 15          | 56         |
| Ontario                          | 6          | 18                    | 13          | 37         |
| Manitoba                         |            | 3                     |             | 3          |
| Saskatchewan                     | 1          | 1                     |             | 2          |
| Alberta                          |            | 2                     | 1           | 3          |
| British Columbia                 | 13         | 6                     | 2           | 21         |
| <b>Total</b>                     | <b>37</b>  | <b>71</b>             | <b>32</b>   | <b>140</b> |

1. Preliminary.

Source : Dominion Bureau of Statistics.

2. Weight of most paper products is unavailable.

3. Less than 500 tons or \$500.

4. Not elsewhere specified.

Source : Dominion Bureau of Statistics.



# II. Forests and Wood Supply

12

| Pulpwood consumption by pulp and paper mills |                        |                        |                              |                              |                     |                     |
|----------------------------------------------|------------------------|------------------------|------------------------------|------------------------------|---------------------|---------------------|
|                                              | Roundwood <sup>1</sup> | Roundwood <sup>1</sup> | Wood <sup>2</sup><br>residue | Wood <sup>2</sup><br>residue | Total               | Total               |
|                                              | '000 Cunits            | \$'000 <sup>3</sup>    | '000 Cunits                  | \$'000 <sup>3</sup>          | '000 Cunits         | \$'000 <sup>3</sup> |
| 1951                                         | 10,739                 | 316,600                | 276                          | 8,522                        | 11,015              | 325,122             |
| 1952                                         | 10,192                 | 334,677                | 270                          | 8,243                        | 10,462              | 342,920             |
| 1953                                         | 10,293                 | 329,087                | 374                          | 9,476                        | 10,667              | 338,563             |
| 1954                                         | 11,034                 | 332,854                | 569                          | 11,775                       | 11,603              | 344,629             |
| 1955                                         | 11,585                 | 340,077                | 682                          | 15,541                       | 12,267              | 355,618             |
| 1956                                         | 11,927                 | 369,263                | 796                          | 18,883                       | 12,723              | 388,146             |
| 1957                                         | 11,362                 | 361,152                | 928                          | 20,828                       | 12,290              | 381,980             |
| 1958                                         | 10,730                 | 338,226                | 1,057                        | 22,301                       | 11,787              | 360,527             |
| 1959                                         | 11,505                 | 349,827                | 1,237                        | 25,185                       | 12,742              | 375,012             |
| 1960                                         | 11,999                 | 361,859                | 1,518                        | 31,092                       | 13,517              | 392,950             |
| 1961                                         | 12,272                 | 365,330                | 1,787                        | 36,182                       | 14,059              | 401,512             |
| 1962                                         | 12,675                 | 368,960                | 2,064                        | 43,797                       | 14,739              | 412,757             |
| 1963                                         | 12,726                 | 371,120                | 2,509                        | 53,288                       | 15,235              | 424,408             |
| 1964                                         | 13,725                 | 402,270                | 2,975                        | 68,710                       | 16,700              | 470,980             |
| 1965                                         | 14,014                 | 415,351                | 3,657                        | 92,582                       | 17,671              | 507,933             |
| 1966                                         | 15,074                 | 472,526                | 4,438                        | 106,696                      | 19,512              | 579,222             |
| 1967                                         | 14,906                 | 496,252                | 4,988                        | 114,211                      | 19,894              | 610,463             |
| 1968                                         | 15,616                 | 523,343                | 5,872                        | 143,321                      | 21,488              | 666,664             |
| 1969                                         | 17,283                 | 586,204                | 6,395                        | 160,347                      | 23,678              | 746,551             |
| 1970                                         | 17,041 <sup>4</sup>    | <sup>5</sup>           | 6,507 <sup>4</sup>           | <sup>5</sup>                 | 23,548 <sup>4</sup> | <sup>5</sup>        |

Note : A cunit equals 100 cubic feet of solid wood, excluding the bark.

1. Whole logs and bolts.

2. Sawmill chips, slabs, edgings, reject lumber, veneer cores and other residue.

3. Sum of values reported by pulp mills for roundwood or wood residue used (delivered price)

4. Canadian Pulp and Paper Association estimate.

5. Not available.

Source : Dominion Bureau of Statistics.

13

| Apparent pulpwood production | Roundwood <sup>1</sup> | Wood<br>residue <sup>2</sup> |
|------------------------------|------------------------|------------------------------|
|                              | '000 Cunits            | '000 Cunits                  |
| 1951                         | 13,159                 | 394                          |
| 1952                         | 12,316                 | 412                          |
| 1953                         | 11,768                 | 541                          |
| 1954                         | 12,497                 | 781                          |
| 1955                         | 13,070                 | 975                          |
| 1956                         | 13,427                 | 1,094                        |
| 1957                         | 12,739                 | 1,242                        |
| 1958                         | 11,699                 | 1,296                        |
| 1959                         | 12,320                 | 1,447                        |
| 1960                         | 12,784                 | 1,799                        |
| 1961                         | 12,998                 | 2,129                        |
| 1962                         | 13,589                 | 2,415                        |
| 1963                         | 13,563                 | 2,987                        |
| 1964                         | 14,678                 | 3,376                        |
| 1965                         | 15,082                 | 3,953                        |
| 1966                         | 16,158                 | 4,770                        |
| 1967                         | 15,765                 | 5,413                        |
| 1968                         | 16,354                 | 6,301                        |
| 1969                         | 18,074                 | 6,670                        |
| 1970                         | 17,867 <sup>3</sup>    | 6,852 <sup>3</sup>           |

1. Whole logs and bolts. Quantity calculated on the basis of consumption plus exports minus imports. This takes no account of inventory changes and includes wood originally intended for use as sawlogs but diverted to pulp mills.

2. Consists chiefly of sawmill chips but also includes slabs, edgings, reject lumber, veneer cores and other residue.

3. Preliminary.

Source : Calculated by Canadian Pulp and Paper Association from Dominion Bureau of Statistics data shown in Tables 12 and 14.

15

| Forest Land <sup>1</sup>                 | Sq. miles        |
|------------------------------------------|------------------|
| Reserved forest land <sup>2</sup>        | 26,616           |
| Not allocated to wood production (Crown) | 538,222          |
| Allocated to wood production (Crown)     | 579,134          |
| Allocated to wood production (private)   | 100,319          |
| <b>Total forest land</b>                 | <b>1,244,291</b> |
| Non forest land                          | 2,293,281        |
| Water (rivers and lakes)                 | 313,822          |
| <b>Total, land and water</b>             | <b>3,851,394</b> |

1. Land capable of producing stands of trees 4 inches DBH and larger on 10% or more of the area. Shelter belts and units of forest 5 acres or less and scattered are excluded.

2. Land in parks, game refuges, water conservation areas and nature preserves where, by legislation, wood production is not the primary use.

Source : Forest Economics Research Institute, Department of Fisheries and Forestry.

14

| Pulpwood exports and imports | Export :<br>roundwood <sup>1</sup> | Export :<br>wood<br>residue <sup>2</sup> | Export :<br>total | Import :<br>roundwood <sup>1</sup> |
|------------------------------|------------------------------------|------------------------------------------|-------------------|------------------------------------|
|                              | '000 Cunits                        | '000 Cunits                              | '000 Cunits       | '000 Cunits                        |
| 1951                         | 2,460                              | 118                                      | 2,578             | 40                                 |
| 1952                         | 2,150                              | 142                                      | 2,292             | 26                                 |
| 1953                         | 1,516                              | 167                                      | 1,683             | 41                                 |
| 1954                         | 1,552                              | 212                                      | 1,764             | 89                                 |
| 1955                         | 1,600                              | 293                                      | 1,893             | 115                                |
| 1956                         | 1,660                              | 298                                      | 1,958             | 160                                |
| 1957                         | 1,530                              | 314                                      | 1,844             | 153                                |
| 1958                         | 1,094                              | 239                                      | 1,333             | 125                                |
| 1959                         | 941                                | 210                                      | 1,151             | 126                                |
| 1960                         | 979                                | 281                                      | 1,260             | 194                                |
| 1961                         | 902                                | 342                                      | 1,244             | 176                                |
| 1962                         | 1,041                              | 351                                      | 1,392             | 127                                |
| 1963                         | 947                                | 478                                      | 1,424             | 110                                |
| 1964                         | 1,050                              | 401                                      | 1,451             | 97                                 |
| 1965                         | 1,158                              | 296                                      | 1,454             | 90                                 |
| 1966                         | 1,172                              | 348                                      | 1,520             | 104                                |
| 1967                         | 988                                | 425                                      | 1,413             | 129                                |
| 1968                         | 903                                | 429                                      | 1,332             | 98                                 |
| 1969                         | 884                                | 275                                      | 1,159             | 93                                 |
| 1970                         | 933                                | 345                                      | 1,278             | 107                                |

1. Whole logs and bolts.

2. Pulpwood chips only. Exports reported in tons have been converted to cunits on the basis of 0.355 cunit per ton.

Source : Dominion Bureau of Statistics.

16

| Forest volume <sup>1</sup>    | Conifers       | Broad-leaved   | Total          |
|-------------------------------|----------------|----------------|----------------|
|                               | billion cu.ft. | billion cu.ft. | billion cu.ft. |
| Newfoundland                  | 4,010          |                | 4,010          |
| Prince Edward Island          | 98             | 52             | 150            |
| Nova Scotia                   | 6,045          | 2,539          | 8,584          |
| New Brunswick                 | 11,947         | 4,921          | 16,868         |
| Quebec                        | 96,954         | 33,443         | 130,397        |
| Ontario                       | 66,593         | 44,830         | 111,423        |
| Manitoba                      | 9,991          | 2,763          | 12,754         |
| Saskatchewan                  | 9,913          | 7,087          | 17,000         |
| Alberta                       | 36,019         | 23,558         | 59,577         |
| British Columbia <sup>2</sup> | 261,313        | 7,322          | 268,635        |
| <b>Canada<sup>3</sup></b>     | <b>502,883</b> | <b>126,515</b> | <b>629,398</b> |

1. Merchantable timber. Non-reserved forest land only inventoried in 1968.

2. Mature timber only.

3. No inventories available for Labrador, the Yukon and Northwest Territories.

Source : Forest Economics Research Institute, Department of Fisheries and Forestry.



III. Pulp

17

| Wood pulp production | Dissolving & special alpha | Sulphite  | Sulphate <sup>3</sup> | Mechanical | Defibrated & exploded | Semi-chemical <sup>2</sup> | Screenings <sup>4</sup> | Total     |
|----------------------|----------------------------|-----------|-----------------------|------------|-----------------------|----------------------------|-------------------------|-----------|
|                      | '000 Tons                  | '000 Tons | '000 Tons             | '000 Tons  | '000 Tons             | '000 Tons                  | '000 Tons               | '000 Tons |
| 1951                 | 409                        | 2,136     | 1,217                 | 5,172      | 113                   | 137                        | 130                     | 9,315     |
| 1952                 | 384                        | 1,994     | 1,092                 | 5,175      | 110                   | 106                        | 107                     | 8,968     |
| 1953                 | 431                        | 1,968     | 1,206                 | 5,123      | 125                   | 126                        | 98                      | 9,077     |
| 1954                 | 427                        | 2,181     | 1,386                 | 5,338      | 113                   | 126                        | 103                     | 9,673     |
| 1955                 | 402                        | 2,415     | 1,471                 | 5,467      | 139                   | 155                        | 102                     | 10,151    |
| 1956                 | 403                        | 2,561     | 1,597                 | 5,723      | 171                   | 184                        | 95                      | 10,734    |
| 1957                 | 342                        | 2,397     | 1,706                 | 5,574      | 153                   | 172                        | 82                      | 10,425    |
| 1958                 | 331                        | 2,143     | 1,896                 | 5,375      | 168                   | 157                        | 68                      | 10,137    |
| 1959                 | 391                        | 2,130     | 2,234                 | 5,656      | 174                   | 173                        | 75                      | 10,832    |
| 1960                 | 392                        | 2,292     | 2,442                 | 5,881      | 158                   | 224                        | 73                      | 11,461    |
| 1961                 | 373                        | 2,415     | 2,697                 | 5,878      | 136                   | 208                        | 73                      | 11,779    |
| 1962                 | 478                        | 2,406     | 2,926                 | 5,892      | 147                   | 217                        | 67                      | 12,133    |
| 1963                 | 429                        | 2,566     | 3,136                 | 5,850      | 160                   | 247                        | 87                      | 12,474    |
| 1964                 | 450                        | 2,872     | 3,420                 | 6,442      | 185                   | 290                        | 83                      | 13,742    |
| 1965                 | 475                        | 2,924     | 3,905                 | 6,802      | 187                   | 195                        | 85                      | 14,573    |
| 1966                 | 429                        | 3,066     | 4,605                 | 7,351      | 175                   | 226                        | 105                     | 15,958    |
| 1967                 | 434                        | 2,827     | 5,068                 | 7,041      | 208                   | 212                        | 66                      | 15,857    |
| 1968                 | 469                        | 2,643     | 6,034                 | 7,055      | 250                   | 245                        | 65                      | 16,762    |
| 1969                 | 500                        | 2,794     | 6,945                 | 7,680      | 318                   | 286                        | 67                      | 18,590    |
| 1970 <sup>1</sup>    | 460                        | 2,818     | 6,771                 | 7,636      | 321                   | 326                        | 58                      | 18,390    |

1. Canadian Pulp and Paper Association estimates.

2. Soda included until 1964.

3. Soda included since 1965.

4. Mechanical and chemical screenings.  
Source : Dominion Bureau of Statistics.

18

| Wood pulp annual capacity | Dissolving & special alpha | Sulphite bleached | Sulphite unbleached | Sulphate bleached & semi-bleached | Sulphate unbleached | Mechanical <sup>1</sup> | Other <sup>2</sup> | Total     |
|---------------------------|----------------------------|-------------------|---------------------|-----------------------------------|---------------------|-------------------------|--------------------|-----------|
|                           | '000 Tons                  | '000 Tons         | '000 Tons           | '000 Tons                         | '000 Tons           | '000 Tons               | '000 Tons          | '000 Tons |
| 1951                      | <sup>3</sup>               | 876               | 1,674               | 547                               | 605                 | 5,583                   | 221                | 9,506     |
| 1952                      | <sup>3</sup>               | 944               | 1,795               | 604                               | 665                 | 5,824                   | 223                | 10,055    |
| 1953                      | 511                        | 490               | 1,794               | 598                               | 656                 | 5,866                   | 221                | 10,136    |
| 1954                      | 542                        | 549               | 1,733               | 724                               | 674                 | 6,040                   | 280                | 10,542    |
| 1955                      | 514                        | 589               | 1,773               | 734                               | 739                 | 6,177                   | 304                | 10,830    |
| 1956                      | 494                        | 662               | 1,836               | 755                               | 922                 | 6,346                   | 304                | 11,319    |
| 1957                      | 518                        | 667               | 1,925               | 1,113                             | 929                 | 6,713                   | 333                | 12,198    |
| 1958                      | 513                        | 692               | 1,980               | 1,382                             | 967                 | 7,145                   | 365                | 13,044    |
| 1959                      | 507                        | 712               | 1,970               | 1,318                             | 1,021               | 7,176                   | 369                | 13,073    |
| 1960                      | 422                        | 725               | 1,946               | 1,457                             | 1,033               | 7,208                   | 394                | 13,185    |
| 1961                      | 375                        | 828               | 2,033               | 1,832                             | 1,076               | 7,128                   | 330                | 13,602    |
| 1962                      | 438                        | 916               | 2,083               | 1,895                             | 1,206               | 7,296                   | 312                | 14,146    |
| 1963                      | 445                        | 951               | 2,169               | 2,097                             | 1,232               | 7,458                   | 310                | 14,662    |
| 1964                      | 497                        | 1,063             | 2,199               | 2,523                             | 1,256               | 7,580                   | 328                | 15,446    |
| 1965                      | 522                        | 953               | 2,229               | 2,879                             | 1,338               | 7,932                   | 362                | 16,215    |
| 1966                      | 498                        | 961               | 2,322               | 3,565                             | 1,576               | 8,212                   | 354                | 17,488    |
| 1967                      | 492                        | 913               | 2,384               | 4,609                             | 1,674               | 8,545                   | 364                | 18,981    |
| 1968                      | 455                        | 872               | 2,327               | 5,537                             | 1,714               | 8,783                   | 391                | 20,079    |
| 1969                      | 503                        | 822               | 2,432               | 6,013                             | 1,806               | 9,439                   | 396                | 21,411    |
| 1970                      | 540                        | 798               | 2,390               | 6,131                             | 1,756               | 9,586                   | 479                | 21,680    |
| 1971 <sup>4</sup>         | 551                        | 849               | 2,472               | 6,496                             | 2,171               | 10,012                  | 560                | 23,111    |
| 1972 <sup>4</sup>         | 555                        | 864               | 2,517               | 7,345                             | 2,554               | 10,109                  | 618                | 24,562    |
| 1973 <sup>4</sup>         | 555                        | 865               | 2,558               | 8,438                             | 2,567               | 10,185                  | 618                | 25,786    |

Note : Capacity is the normal maximum productive capacity as at the beginning of each year, plus or minus changes during the year from the date they become effective.

1. Groundwood, Defibrated and Exploded pulp and Groundwood screenings.

2. Soda and Semi-chemical pulps and Chemical screenings prior to 1965 ; Semi-chemical pulp and Chemical screenings since 1965.

3. Included with Sulphite and Sulphate.

4. Preliminary.  
Source : Canadian Pulp and Paper Association.



| Wood pulp exports, by grades | Dissolving & special alpha | Sulphite  | Sulphate           | Mechanical | Other wood pulp <sup>1</sup> | Screenings   | All grades | All grades |
|------------------------------|----------------------------|-----------|--------------------|------------|------------------------------|--------------|------------|------------|
|                              | '000 Tons                  | '000 Tons | '000 Tons          | '000 Tons  | '000 Tons                    | '000 Tons    | '000 Tons  | '000 Tons  |
| 1951                         | 363 <sup>2</sup>           | 799       | 709                | 323        | 33                           | 16           | 2,243      | 365,133    |
| 1952                         | 339 <sup>2</sup>           | 662       | 645                | 255        | 29                           | 11           | 1,941      | 291,863    |
| 1953                         | 383 <sup>2</sup>           | 590       | 706                | 228        | 35                           | 9            | 1,950      | 248,675    |
| 1954                         | 369 <sup>2</sup>           | 686       | 845                | 232        | 38                           | 11           | 2,180      | 271,418    |
| 1955                         | 330 <sup>2</sup>           | 829       | 892                | 262        | 41                           | 12           | 2,366      | 297,304    |
| 1956                         | 303 <sup>2</sup>           | 818       | 916 <sup>3</sup>   | 275        | 45                           | 16           | 2,374      | 304,536    |
| 1957                         | 275 <sup>2</sup>           | 691       | 1,016 <sup>3</sup> | 248        | 43                           | 10           | 2,283      | 292,406    |
| 1958                         | 218 <sup>2</sup>           | 579       | 1,149 <sup>3</sup> | 233        | 32                           | 7            | 2,219      | 285,449    |
| 1959                         | 273 <sup>2</sup>           | 513       | 1,376 <sup>3</sup> | 240        | 38                           | 10           | 2,450      | 311,253    |
| 1960                         | 242 <sup>2</sup>           | 604       | 1,466 <sup>3</sup> | 235        | 43                           | 11           | 2,601      | 325,122    |
| 1961                         | 307                        | 634       | 1,635              | 236        | 46                           | 11           | 2,869      | 346,661    |
| 1962                         | 355                        | 705       | 1,681              | 260        | 34                           | 9            | 3,044      | 369,902    |
| 1963                         | 372                        | 786       | 1,883              | 248        | 41                           | 8            | 3,339      | 405,292    |
| 1964                         | 402                        | 885       | 2,018              | 286        | 39                           | 7            | 3,636      | 460,854    |
| 1965                         | 385                        | 891       | 2,245              | 313        | 13                           | 5            | 3,853      | 493,501    |
| 1966                         | 364                        | 852       | 2,615              | 254        | <sup>4</sup>                 | 11           | 4,096      | 520,067    |
| 1967                         | 351                        | 724       | 2,966              | 221        | 6                            | 1            | 4,269      | 543,433    |
| 1968                         | 368                        | 636       | 3,742              | 219        | 5                            | 1            | 4,971      | 627,875    |
| 1969                         | 376                        | 653       | 4,503              | 255        | 8                            | <sup>4</sup> | 5,795      | 753,490    |
| 1970                         | 333                        | 664       | 4,290              | 277        | 16                           | 2            | 5,582      | 785,228    |

1. Includes soda prior to 1966, mechanical screenings since 1967, and unspecified grades.

2. Sulphite only.

3. Includes sulphate dissolving pulp.

4. Less than 500 tons.

Source: Dominion Bureau of Statistics.

## 20

| Wood pulp exports, by areas | United States | Other America | United Kingdom | Other Europe | Japan     | Other Asia | Africa       | Australia & New Zealand | All countries |
|-----------------------------|---------------|---------------|----------------|--------------|-----------|------------|--------------|-------------------------|---------------|
|                             | '000 Tons     | '000 Tons     | '000 Tons      | '000 Tons    | '000 Tons | '000 Tons  | '000 Tons    | '000 Tons               | '000 Tons     |
| 1951                        | 1,831         | 32            | 217            | 92           | 62        | 1          | <sup>1</sup> | 8                       | 2,243         |
| 1952                        | 1,589         | 32            | 211            | 65           | 30        | 3          |              | 11                      | 1,941         |
| 1953                        | 1,599         | 14            | 215            | 50           | 60        | 7          | 1            | 4                       | 1,950         |
| 1954                        | 1,670         | 60            | 271            | 101          | 44        | 28         | 2            | 3                       | 2,180         |
| 1955                        | 1,869         | 43            | 281            | 113          | 37        | 18         | 2            | 3                       | 2,366         |
| 1956                        | 1,920         | 25            | 244            | 82           | 84        | 13         | 2            | 5                       | 2,374         |
| 1957                        | 1,847         | 25            | 225            | 75           | 80        | 20         | 2            | 8                       | 2,283         |
| 1958                        | 1,833         | 38            | 216            | 71           | 22        | 29         | 2            | 9                       | 2,219         |
| 1959                        | 1,966         | 64            | 217            | 79           | 47        | 59         | 2            | 13                      | 2,450         |
| 1960                        | 2,000         | 76            | 283            | 129          | 20        | 61         | 1            | 32                      | 2,601         |
| 1961                        | 2,177         | 152           | 279            | 121          | 21        | 83         | 12           | 25                      | 2,869         |
| 1962                        | 2,399         | 91            | 252            | 148          | 53        | 76         | 3            | 24                      | 3,044         |
| 1963                        | 2,506         | 81            | 280            | 208          | 167       | 55         | 4            | 40                      | 3,339         |
| 1964                        | 2,677         | 82            | 339            | 270          | 180       | 44         | 6            | 39                      | 3,636         |
| 1965                        | 2,817         | 85            | 347            | 290          | 204       | 31         | 11           | 68                      | 3,853         |
| 1966                        | 2,978         | 81            | 324            | 344          | 261       | 51         | 13           | 45                      | 4,096         |
| 1967                        | 2,902         | 91            | 273            | 555          | 317       | 49         | 18           | 64                      | 4,269         |
| 1968                        | 3,226         | 101           | 317            | 795          | 410       | 43         | 17           | 63                      | 4,971         |
| 1969                        | 3,830         | 96            | 296            | 913          | 499       | 54         | 25           | 82                      | 5,795         |
| 1970                        | 3,316         | 89            | 377            | 1,072        | 520       | 95         | 35           | 78                      | 5,582         |

1. Less than 500 tons.

Source: Dominion Bureau of Statistics.

## 21

| Sulphate pulp exports, by areas | United States | Other America | United Kingdom | Other Europe | Japan        | Other Asia   | Africa       | Australia & New Zealand |
|---------------------------------|---------------|---------------|----------------|--------------|--------------|--------------|--------------|-------------------------|
|                                 | '000 Tons     | '000 Tons     | '000 Tons      | '000 Tons    | '000 Tons    | '000 Tons    | '000 Tons    | '000 Tons               |
| 1951                            | 622           | 12            | 39             | 25           | 10           |              |              | 1                       |
| 1952                            | 586           | 7             | 39             | 8            | 1            | <sup>1</sup> |              | 4                       |
| 1953                            | 642           | 10            | 24             | 15           | 10           | 4            |              | 1                       |
| 1954                            | 706           | 18            | 64             | 39           | 4            | 10           | 1            | 3                       |
| 1955                            | 762           | 21            | 61             | 36           | 1            | 8            |              | 3                       |
| 1956                            | 791           | 15            | 54             | 38           | 10           | 3            |              | 5                       |
| 1957                            | 875           | 12            | 45             | 37           | 30           | 9            |              | 8                       |
| 1958                            | 973           | 28            | 63             | 56           | 4            | 16           | 1            | 8                       |
| 1959                            | 1,121         | 58            | 75             | 72           | <sup>1</sup> | 35           | 1            | 13                      |
| 1960                            | 1,125         | 57            | 112            | 111          |              | 30           | 1            | 30                      |
| 1961                            | 1,237         | 107           | 103            | 106          | 15           | 45           | 3            | 19                      |
| 1962                            | 1,339         | 64            | 80             | 116          | 37           | 30           | 1            | 15                      |
| 1963                            | 1,425         | 36            | 106            | 145          | 124          | 20           | <sup>1</sup> | 27                      |
| 1964                            | 1,514         | 37            | 118            | 178          | 127          | 15           | 1            | 28                      |
| 1965                            | 1,675         | 39            | 116            | 190          | 147          | 20           | 7            | 50                      |
| 1966                            | 1,906         | 40            | 117            | 271          | 199          | 34           | 11           | 37                      |
| 1967                            | 1,924         | 53            | 171            | 454          | 263          | 36           | 12           | 54                      |
| 1968                            | 2,269         | 60            | 260            | 690          | 374          | 26           | 3            | 60                      |
| 1969                            | 2,816         | 51            | 257            | 788          | 458          | 44           | 18           | 71                      |
| 1970                            | 2,423         | 52            | 316            | 853          | 485          | 74           | 19           | 68                      |

1. Less than 500 tons.

Source: Dominion Bureau of Statistics.



22

| Dissolving and special alpha pulps<br>(sulphite and sulphate) | Production       | Exports          | Exports |
|---------------------------------------------------------------|------------------|------------------|---------|
|                                                               | '000 Tons        | '000 Tons        | \$'000  |
| 1957                                                          | 342              | 275 <sup>1</sup> | 49,217  |
| 1958                                                          | 331              | 218 <sup>1</sup> | 39,024  |
| 1959                                                          | 391              | 273 <sup>1</sup> | 48,429  |
| 1960                                                          | 392              | 242 <sup>1</sup> | 42,708  |
| 1961                                                          | 373              | 307              | 51,956  |
| 1962                                                          | 478              | 355              | 61,344  |
| 1963                                                          | 429              | 372              | 64,485  |
| 1964                                                          | 450              | 402              | 71,123  |
| 1965                                                          | 475              | 385              | 69,547  |
| 1966                                                          | 429              | 364              | 65,034  |
| 1967                                                          | 434              | 351              | 64,315  |
| 1968                                                          | 469              | 368              | 69,231  |
| 1969                                                          | 500              | 376              | 70,100  |
| 1970                                                          | 460 <sup>2</sup> | 333              | 63,869  |

1. Sulphite only.  
2. Canadian Pulp and Paper Association estimate.  
Source: Dominion Bureau of Statistics.

23

| Sulphite pulp, paper grades | Production         | Exports   | Exports |
|-----------------------------|--------------------|-----------|---------|
|                             | '000 Tons          | '000 Tons | \$'000  |
| <b>Bleached</b>             |                    |           |         |
| 1957                        | 584                | 398       | 53,601  |
| 1958                        | 536                | 361       | 49,434  |
| 1959                        | 507                | 333       | 45,832  |
| 1960                        | 572                | 434       | 57,608  |
| 1961                        | 684                | 444       | 55,510  |
| 1962                        | 717                | 501       | 61,702  |
| 1963                        | 847                | 568       | 67,904  |
| 1964                        | 958                | 627       | 79,831  |
| 1965                        | 900                | 628       | 81,977  |
| 1966                        | 898                | 605       | 78,989  |
| 1967                        | 813                | 522       | 68,406  |
| 1968                        | 751                | 506       | 65,542  |
| 1969                        | 753                | 505       | 69,853  |
| 1970                        | 762 <sup>1</sup>   | 485       | 71,780  |
| <b>Unbleached</b>           |                    |           |         |
| 1957                        | 1,812              | 294       | 35,686  |
| 1958                        | 1,607              | 218       | 27,137  |
| 1959                        | 1,623              | 180       | 22,029  |
| 1960                        | 1,719              | 170       | 19,744  |
| 1961                        | 1,731              | 190       | 21,153  |
| 1962                        | 1,689              | 204       | 22,456  |
| 1963                        | 1,719              | 219       | 22,956  |
| 1964                        | 1,914              | 258       | 26,959  |
| 1965                        | 2,024              | 263       | 27,924  |
| 1966                        | 2,168              | 246       | 24,974  |
| 1967                        | 2,014              | 202       | 20,487  |
| 1968                        | 1,892              | 131       | 13,572  |
| 1969                        | 2,041              | 147       | 16,275  |
| 1970                        | 2,056 <sup>1</sup> | 179       | 22,426  |
| <b>Total</b>                |                    |           |         |
| 1957                        | 2,397              | 691       | 89,287  |
| 1958                        | 2,143              | 579       | 76,570  |
| 1959                        | 2,130              | 513       | 67,861  |
| 1960                        | 2,292              | 604       | 77,352  |
| 1961                        | 2,415              | 634       | 76,663  |
| 1962                        | 2,406              | 705       | 84,157  |
| 1963                        | 2,566              | 786       | 90,860  |
| 1964                        | 2,872              | 885       | 106,790 |
| 1965                        | 2,924              | 891       | 109,901 |
| 1966                        | 3,066              | 852       | 103,963 |
| 1967                        | 2,827              | 724       | 88,893  |
| 1968                        | 2,643              | 636       | 79,114  |
| 1969                        | 2,794              | 653       | 86,128  |
| 1970                        | 2,818 <sup>1</sup> | 664       | 94,206  |

1. Canadian Pulp and Paper Association estimate.  
Source: Dominion Bureau of Statistics.

24

| Sulphate pulp, paper grades | Production         | Exports            | Exports                |
|-----------------------------|--------------------|--------------------|------------------------|
|                             | '000 Tons          | '000 Tons          | \$'000                 |
| <b>Bleached</b>             |                    |                    |                        |
| 1957                        | 799                | 749 <sup>1,2</sup> | 103,274 <sup>1,2</sup> |
| 1958                        | 909                | 900 <sup>1,2</sup> | 124,428 <sup>1,2</sup> |
| 1959                        | 1,061              | 909 <sup>1</sup>   | 126,511 <sup>1</sup>   |
| 1960                        | 1,171              | 980 <sup>1</sup>   | 134,792 <sup>1</sup>   |
| 1961                        | 1,293              | 1,060              | 139,551                |
| 1962                        | 1,413              | 1,147              | 149,000                |
| 1963                        | 1,624              | 1,375              | 176,289                |
| 1964                        | 1,825              | 1,505              | 204,225                |
| 1965                        | 1,904              | 1,655              | 227,462                |
| 1966                        | 2,440              | 1,987              | 266,352                |
| 1967                        | 2,680              | 2,285              | 302,136                |
| 1968                        | 3,401              | 3,000              | 385,589                |
| 1969                        | 4,032              | 3,539              | 472,405                |
| 1970                        | 4,076 <sup>3</sup> | 3,413              | 500,177                |
| <b>Semi-bleached</b>        |                    |                    |                        |
| 1957                        | 115                | 4                  | 4                      |
| 1958                        | 173                | 4                  | 4                      |
| 1959                        | 242                | 150                | 17,035                 |
| 1960                        | 284                | 140                | 16,013                 |
| 1961                        | 323                | 161                | 17,439                 |
| 1962                        | 421                | 184                | 19,736                 |
| 1963                        | 396                | 152                | 17,175                 |
| 1964                        | 621                | 192                | 22,647                 |
| 1965                        | 624                | 223                | 26,602                 |
| 1966                        | 723                | 234                | 27,420                 |
| 1967                        | 912                | 313                | 35,844                 |
| 1968                        | 1,176              | 381                | 43,206                 |
| 1969                        | 1,495              | 537                | 64,032                 |
| 1970                        | 1,141 <sup>3</sup> | 515                | 67,509                 |
| <b>Unbleached</b>           |                    |                    |                        |
| 1957                        | 791                | 267                | 26,757                 |
| 1958                        | 814                | 248                | 24,295                 |
| 1959                        | 931                | 317                | 29,011                 |
| 1960                        | 987                | 346                | 31,839                 |
| 1961                        | 1,081              | 413                | 38,833                 |
| 1962                        | 1,092              | 350                | 33,286                 |
| 1963                        | 1,115              | 356                | 34,201                 |
| 1964                        | 974                | 321                | 32,289                 |
| 1965                        | 1,259              | 367                | 37,348                 |
| 1966                        | 1,442              | 394                | 39,471                 |
| 1967                        | 1,476              | 368                | 37,448                 |
| 1968                        | 1,457              | 361                | 36,983                 |
| 1969                        | 1,418              | 427                | 44,721                 |
| 1970                        | 1,554 <sup>3</sup> | 361                | 41,695                 |
| <b>Total</b>                |                    |                    |                        |
| 1957                        | 1,706              | 1,016 <sup>1</sup> | 130,032                |
| 1958                        | 1,896              | 1,149 <sup>1</sup> | 148,723                |
| 1959                        | 2,234              | 1,376 <sup>1</sup> | 172,557                |
| 1960                        | 2,442              | 1,466 <sup>1</sup> | 182,644                |
| 1961                        | 2,697              | 1,635              | 195,822                |
| 1962                        | 2,926              | 1,681              | 202,022                |
| 1963                        | 3,136              | 1,883              | 227,666                |
| 1964                        | 3,420              | 2,018              | 259,162                |
| 1965                        | 3,787              | 2,245              | 291,412                |
| 1966                        | 4,605              | 2,615              | 333,243                |
| 1967                        | 5,068              | 2,966              | 375,428                |
| 1968                        | 6,034              | 3,742              | 465,778                |
| 1969                        | 6,945              | 4,503              | 581,158                |
| 1970                        | 6,771 <sup>3</sup> | 4,290              | 609,381                |

1. Includes sulphate dissolving pulp.  
2. Includes semi-bleached.  
3. Canadian Pulp and Paper Association estimate.  
4. Not available.  
Source: Dominion Bureau of Statistics.

## 25

| Mechanical pulp   | Production         | Exports   | Exports |
|-------------------|--------------------|-----------|---------|
|                   | '000 Tons          | '000 Tons | \$'000  |
| <b>Bleached</b>   |                    |           |         |
| 1957              | 50                 | 35        | 2,508   |
| 1958              | 94                 | 15        | 1,107   |
| 1959              | 274                | 13        | 1,004   |
| 1960              | 327                | 13        | 991     |
| 1961              | 354                | 17        | 1,406   |
| 1962              | 380                | 23        | 1,812   |
| 1963              | 543                | 18        | 1,436   |
| 1964              | 449                | 13        | 1,041   |
| 1965              | 747                | 8         | 596     |
| 1966              | <sup>2</sup>       | 6         | 453     |
| 1967              | <sup>2</sup>       | 3         | 205     |
| 1968              | <sup>2</sup>       | 1         | 33      |
| 1969              | <sup>2</sup>       | 4         | 246     |
| 1970              | <sup>2</sup>       | 13        | 732     |
| <b>Unbleached</b> |                    |           |         |
| 1957              | 5,525              | 213       | 15,058  |
| 1958              | 5,281              | 217       | 15,088  |
| 1959              | 5,381              | 228       | 15,657  |
| 1960              | 5,553              | 223       | 15,358  |
| 1961              | 5,525              | 218       | 14,576  |
| 1962              | 5,511              | 237       | 15,886  |
| 1963              | 5,306              | 229       | 15,398  |
| 1964              | 5,993              | 272       | 12,256  |
| 1965              | 6,055              | 306       | 20,147  |
| 1966              | <sup>2</sup>       | 248       | 16,807  |
| 1967              | <sup>2</sup>       | 218       | 14,408  |
| 1968              | <sup>2</sup>       | 218       | 13,599  |
| 1969              | <sup>2</sup>       | 250       | 15,697  |
| 1970              | <sup>2</sup>       | 264       | 16,600  |
| <b>Total</b>      |                    |           |         |
| 1957              | 5,575              | 248       | 17,566  |
| 1958              | 5,375              | 233       | 16,195  |
| 1959              | 5,656              | 240       | 16,661  |
| 1960              | 5,881              | 235       | 16,348  |
| 1961              | 5,878              | 236       | 15,982  |
| 1962              | 5,892              | 260       | 17,698  |
| 1963              | 5,850              | 248       | 16,833  |
| 1964              | 6,442              | 286       | 18,528  |
| 1965              | 6,802              | 313       | 20,743  |
| 1966              | 7,351              | 254       | 17,260  |
| 1967              | 7,041              | 221       | 14,613  |
| 1968              | 7,055              | 219       | 13,632  |
| 1969              | 7,680              | 255       | 15,943  |
| 1970              | 7,636 <sup>1</sup> | 277       | 17,332  |

1. Canadian Pulp and Paper Association estimate.

2. Not available.

Source: Dominion Bureau of Statistics.

## 26

| Wood pulp imports | Dissolving & special alpha <sup>1</sup> | Sulphite  | Sulphate  | Mechanical   | Other wood pulp | Total     | Total  |
|-------------------|-----------------------------------------|-----------|-----------|--------------|-----------------|-----------|--------|
|                   | '000 Tons                               | '000 Tons | '000 Tons | '000 Tons    | '000 Tons       | '000 Tons | \$'000 |
| 1951              |                                         | 31        | 4         | 2            | <sup>2</sup>    | 36        | 4,546  |
| 1952              |                                         | 35        | 5         | 15           |                 | 55        | 4,499  |
| 1953              |                                         | 33        | 7         | 3            |                 | 43        | 5,100  |
| 1954              |                                         | 36        | 12        | 4            |                 | 52        | 5,850  |
| 1955              |                                         | 47        | 13        | <sup>2</sup> |                 | 60        | 6,989  |
| 1956              |                                         | 51        | 13        |              |                 | 64        | 8,117  |
| 1957              |                                         | 47        | 18        |              |                 | 65        | 8,345  |
| 1958              |                                         | 35        | 19        | <sup>2</sup> |                 | 54        | 7,346  |
| 1959              |                                         | 40        | 25        |              |                 | 65        | 8,967  |
| 1960              |                                         | 47        | 17        | <sup>2</sup> |                 | 64        | 8,657  |
| 1961              |                                         | 48        | 13        | <sup>2</sup> |                 | 62        | 8,404  |
| 1962              |                                         | 53        | 10        |              |                 | 63        | 8,962  |
| 1963              |                                         | 61        | 13        |              |                 | 74        | 10,264 |
| 1964              | 22                                      | 41        | 11        |              | 2               | 75        | 10,440 |
| 1965              | 28                                      | 39        | 24        |              | 3               | 94        | 13,296 |
| 1966              | 16                                      | 25        | 16        |              | 1               | 58        | 8,042  |
| 1967              | 16                                      | 6         | 13        |              | 1               | 36        | 5,122  |
| 1968              | 18                                      | 10        | 18        |              | 1               | 46        | 6,512  |
| 1969              | 17                                      | 5         | 15        | <sup>2</sup> | 1               | 39        | 5,631  |
| 1970              | 7                                       | 7         | 37        |              | <sup>2</sup>    | 51        | 8,616  |

1. Included with bleached sulphite prior to 1964.

2. Less than 500 tons.

Source: Dominion Bureau of Statistics.



## Sources of U.S. wood pulp supply

|      | U.S. pulp production |      | Imports from Canada |     | Imports from other countries |     | Total supply |
|------|----------------------|------|---------------------|-----|------------------------------|-----|--------------|
|      | '000 Tons            | %    | '000 Tons           | %   | '000 Tons                    | %   | '000 Tons    |
| 1951 | 16,524               | 87.5 | 1,877               | 9.9 | 484                          | 2.6 | 18,885       |
| 1952 | 16,473               | 89.5 | 1,581               | 8.6 | 360                          | 1.9 | 18,414       |
| 1953 | 17,537               | 89.0 | 1,614               | 8.2 | 544                          | 2.8 | 19,695       |
| 1954 | 18,302               | 89.9 | 1,679               | 8.3 | 373                          | 1.8 | 20,354       |
| 1955 | 20,740               | 90.4 | 1,865               | 8.1 | 348                          | 1.5 | 22,953       |
| 1956 | 22,131               | 90.4 | 1,957               | 8.0 | 377                          | 1.6 | 24,465       |
| 1957 | 21,800               | 91.2 | 1,840               | 7.7 | 267                          | 1.1 | 23,907       |
| 1958 | 21,796               | 91.2 | 1,819               | 7.6 | 283                          | 1.2 | 23,898       |
| 1959 | 24,383               | 90.9 | 1,975               | 7.4 | 456                          | 1.7 | 26,814       |
| 1960 | 25,316               | 91.4 | 2,032               | 7.3 | 349                          | 1.3 | 27,697       |
| 1961 | 26,523               | 91.5 | 2,200               | 7.6 | 267                          | 0.9 | 28,990       |
| 1962 | 27,908               | 90.9 | 2,435               | 7.9 | 353                          | 1.2 | 30,696       |
| 1963 | 29,439               | 91.4 | 2,532               | 7.9 | 243                          | 0.7 | 32,214       |
| 1964 | 31,911               | 91.6 | 2,702               | 7.7 | 240                          | 0.7 | 34,853       |
| 1965 | 33,296               | 91.4 | 2,820               | 7.7 | 317                          | 0.9 | 36,433       |
| 1966 | 35,636               | 91.4 | 3,013               | 7.7 | 345                          | 0.9 | 38,994       |
| 1967 | 36,355               | 92.0 | 2,889               | 7.3 | 277                          | 0.7 | 39,521       |
| 1968 | 39,196               | 90.3 | 3,266               | 9.1 | 266                          | 0.6 | 42,728       |
| 1969 | 40,990               | 90.5 | 3,871               | 8.4 | 437                          | 1.0 | 45,298       |
| 1970 | 42,216               | 92.3 | 3,370               | 7.4 | 168                          | 0.3 | 45,754       |

Source: American Paper Institute — Pulp Division.

## Average value per ton of U.S. pulp imports from Canada

|      | Dissolving & special alpha <sup>1</sup> | Bleached sulphite paper grades | Unbleached sulphite | Bleached sulphate paper grades <sup>2</sup> | Unbleached & semi-bleached sulphate | Mechanical |
|------|-----------------------------------------|--------------------------------|---------------------|---------------------------------------------|-------------------------------------|------------|
|      | U.S. \$                                 | U.S. \$                        | U.S. \$             | U.S. \$                                     | U.S. \$                             | U.S. \$    |
| 1951 | 176.89                                  | 152.79                         | 129.97              | 167.50                                      | 148.42                              | 81.06      |
| 1952 | 182.13                                  | 148.44                         | 135.01              | 160.05                                      | 132.24                              | 76.80      |
| 1953 | 181.17                                  | 134.55                         | 111.17              | 135.82                                      | 106.36                              | 73.36      |
| 1954 | 176.42                                  | 133.86                         | 108.00              | 133.39                                      | 109.53                              | 74.20      |
| 1955 | 177.46                                  | 136.13                         | 114.23              | 138.74                                      | 113.13                              | 74.47      |
| 1956 | 178.28                                  | 142.17                         | 118.27              | 142.71                                      | 115.73                              | 75.61      |
| 1957 | 187.70                                  | 147.66                         | 122.06              | 144.65                                      | 109.02                              | 74.67      |
| 1958 | 180.07                                  | 150.84                         | 124.74              | 144.26                                      | 103.20                              | 74.60      |
| 1959 | 186.22                                  | 147.72                         | 126.51              | 145.20                                      | 102.76                              | 74.54      |
| 1960 | 172.34                                  | 141.65                         | 115.77              | 140.66                                      | 109.42                              | 74.77      |
| 1961 | 156.16                                  | 136.71                         | 110.18              | 132.48                                      | 117.70                              | 73.58      |
| 1962 | 159.68                                  | 126.57                         | 107.27              | 128.10                                      | 111.93                              | 69.66      |
| 1963 | 163.11                                  | 122.54                         | 105.38              | 128.49                                      | 116.75                              | 66.29      |
| 1964 | 169.34                                  | 128.91                         | 108.54              | 135.71                                      | 124.60                              | 69.51      |
| 1965 | 173.48                                  | 131.84                         | 109.63              | 137.12                                      | 124.24                              | 70.75      |
| 1966 | 170.37                                  | 131.55                         | 107.11              | 134.21                                      | 121.39                              | 73.63      |
| 1967 | 177.64                                  | 132.58                         | 107.61              | 129.87                                      | 119.78                              | 73.02      |
| 1968 | 176.79                                  | 133.32                         | 107.40              | 125.43                                      | 110.19                              | 71.78      |
| 1969 | 174.76                                  | 135.21                         | 110.13              | 127.73                                      | 112.98                              | 63.78      |
| 1970 | 182.56                                  | 143.40                         | 113.13              | 143.62                                      | 123.56                              | 64.79      |

1. Sulphite only prior to 1955; Sulphite and Sulphate from 1955.

2. Includes dissolving and special chemical grades of sulphate prior to 1955.

Source: American Paper Institute — Pulp Division.

## Consumption in Canada of wood pulp for paper, paperboard, and other board production, by kinds

|      | Sulphite             | Sulphate           | Mechanical         | Screenings      | Defibrated & exploded | Other wood-pulp  | Total               |
|------|----------------------|--------------------|--------------------|-----------------|-----------------------|------------------|---------------------|
|      | '000 Tons            | '000 Tons          | '000 Tons          | '000 Tons       | '000 Tons             | '000 Tons        | '000 Tons           |
| 1953 | 1,420                | 514                | 4,903              | 87              | 125                   | 97               | 7,147               |
| 1954 | 1,505                | 555                | 5,094              | 96              | 113                   | 94               | 7,456               |
| 1955 | 1,646                | 591                | 5,214              | 92              | 139                   | 119              | 7,800               |
| 1956 | 1,801                | 703                | 5,439              | 79              | 171                   | 146              | 8,339               |
| 1957 | 1,762 <sup>1</sup>   | 702                | 5,327              | 67              | 155                   | 130              | 8,143               |
| 1958 | 1,617 <sup>1</sup>   | 772                | 5,136              | 58              | 171                   | 127              | 7,882               |
| 1959 | 1,690 <sup>1</sup>   | 889                | 5,398              | 64              | 181                   | 145              | 8,367               |
| 1960 | 1,817 <sup>1</sup>   | 968                | 5,625              | 59              | 166                   | 198              | 8,833               |
| 1961 | 1,832 <sup>1</sup>   | 1,032              | 5,628              | 64              | 125                   | 193              | 8,874               |
| 1962 | 1,786 <sup>1</sup>   | 1,203              | 5,621              | 52              | 147                   | 195              | 9,004               |
| 1963 | 1,798 <sup>1</sup>   | 1,310              | 5,574              | 62              | 160                   | 217              | 9,120               |
| 1964 | 2,009 <sup>1</sup>   | 1,400              | 6,136              | 63              | 184                   | 252              | 10,045              |
| 1965 | 2,078 <sup>1</sup>   | 1,581              | 6,497              | 71              | 187                   | 266              | 10,679              |
| 1966 | 2,232 <sup>1</sup>   | 1,906              | 7,053              | 100             | 175                   | 233              | 11,699              |
| 1967 | 2,095 <sup>1</sup>   | 2,096              | 6,802              | 59              | 148                   | 212              | 11,413              |
| 1968 | 2,056 <sup>1</sup>   | 2,180              | 6,841              | 63              | 250                   | 245              | 11,635              |
| 1969 | 2,260 <sup>1</sup>   | 2,498              | 7,407              | 65              | 299                   | 286              | 12,814              |
| 1970 | 2,183 <sup>1 2</sup> | 2,403 <sup>2</sup> | 7,314 <sup>2</sup> | 56 <sup>2</sup> | 302 <sup>2</sup>      | 330 <sup>2</sup> | 12,558 <sup>2</sup> |

1. Includes dissolving and special alpha (sulphite and sulphate).

2. Canadian Paper and Pulp Association estimate.

Source: Dominion Bureau of Statistics.



## Consumption in Canada of wood pulp for paper, paperboard, and other board production, by sources

|                                  | Sulphite           | Sulphate           | Mechanical         | Screenings      | Defibrated & exploded | Other wood-pulp  | Total               |
|----------------------------------|--------------------|--------------------|--------------------|-----------------|-----------------------|------------------|---------------------|
|                                  | '000 Tons          | '000 Tons          | '000 Tons          | '000 Tons       | '000 Tons             | '000 Tons        | '000 Tons           |
| <b>Own pulp from same mill</b>   |                    |                    |                    |                 |                       |                  |                     |
| 1953                             | 1,193              | 438                | 4,844              | 60              | 125                   | 83               | 6,744               |
| 1954                             | 1,274              | 458                | 5,058              | 66              | 113                   | 78               | 7,048               |
| 1955                             | 1,379              | 475                | 5,157              | 65              | 139                   | 100              | 7,315               |
| 1956                             | 1,534              | 585                | 5,377              | 56              | 171                   | 118              | 7,840               |
| 1957                             | 1,507              | 573                | 5,285              | 51              | 152                   | 106              | 7,674               |
| 1958                             | 1,386              | 640                | 5,113              | 43              | 168                   | 101              | 7,450               |
| 1959                             | 1,452              | 730                | 5,376              | 49              | 174                   | 114              | 7,894               |
| 1960                             | 1,587              | 803                | 5,608              | 46              | 158                   | 168              | 8,370               |
| 1961                             | 1,600              | 842                | 5,614              | 45              | 125                   | 163              | 8,389               |
| 1962                             | 1,542              | 934                | 5,603              | 35              | 147                   | 161              | 8,422               |
| 1963                             | 1,548              | 997                | 5,554              | 43              | 160                   | 183              | 8,484               |
| 1964                             | 1,739              | 1,018              | 6,107              | 43              | 184                   | 213              | 9,304               |
| 1965                             | 1,801              | 1,142              | 6,463              | 51              | 187                   | 227              | 9,872               |
| 1966                             | 1,952              | 1,384              | 7,026              | 82              | 175                   | 226              | 10,845              |
| 1967                             | 1,860              | 1,494              | 6,760              | 46              | 148                   | 212              | 10,520              |
| 1968                             | 1,829              | 1,583              | 6,811              | 49              | 250                   | 245              | 10,767              |
| 1969                             | 2,026              | 1,829              | 7,385              | 49              | 293                   | 286              | 11,868              |
| 1970                             | 1,983 <sup>2</sup> | 1,732 <sup>2</sup> | 7,291 <sup>2</sup> | 43 <sup>2</sup> | 296 <sup>2</sup>      | 325 <sup>2</sup> | 11,670 <sup>2</sup> |
| <b>Own pulp from other mills</b> |                    |                    |                    |                 |                       |                  |                     |
| 1953                             | 146                | 23                 | 9                  | 17              |                       | 4                | 199                 |
| 1954                             | 152                | 24                 | 8                  | 17              |                       | 3                | 205                 |
| 1955                             | 167                | 30                 | 8                  | 18              |                       | 5                | 229                 |
| 1956                             | 155                | 30                 | 20                 | 17              |                       | 6                | 228                 |
| 1957                             | 146 <sup>3</sup>   | 28                 | 12                 | 10              |                       | 6                | 202                 |
| 1958                             | 115 <sup>3</sup>   | 22                 | 8                  | 5               |                       | 3                | 152                 |
| 1959                             | 136 <sup>3</sup>   | 22                 | 5                  | 6               |                       | 2                | 171                 |
| 1960                             | 136 <sup>3</sup>   | 24                 | 5                  | 4               |                       | 2                | 170                 |
| 1961                             | 133 <sup>3</sup>   | 32                 | 2                  | 10              |                       | 2                | 179                 |
| 1962                             | 148 <sup>3</sup>   | 90                 | 4                  | 9               |                       | 6                | 256                 |
| 1963                             | 156 <sup>3</sup>   | 134                | 6                  | 12              |                       | 7                | 314                 |
| 1964                             | 161 <sup>3</sup>   | 170                | 6                  | 13              |                       | 9                | 358                 |
| 1965                             | 168 <sup>3</sup>   | 167                | 5                  | 12              |                       | 9                | 361                 |
| 1966                             | 136 <sup>3</sup>   | 192                | 7                  | 11              |                       | 2                | 348                 |
| 1967                             | 104 <sup>3</sup>   | 270                | 9                  | 9               |                       | 1                | 392                 |
| 1968                             | 117 <sup>3</sup>   | 233                | 8                  | 10              |                       | 3                | 371                 |
| 1969                             | 99 <sup>3</sup>    | 252                | 8                  | 11              |                       |                  | 370                 |
| 1970                             | 88 <sup>2 3</sup>  | 241 <sup>2</sup>   | 9 <sup>2</sup>     | 8 <sup>2</sup>  |                       |                  | 346 <sup>2</sup>    |
| <b>Purchased pulp</b>            |                    |                    |                    |                 |                       |                  |                     |
| 1953                             | 81                 | 53                 | 50                 | 11              | 1                     | 10               | 204                 |
| 1954                             | 79                 | 73                 | 28                 | 12              |                       | 12               | 204                 |
| 1955                             | 99                 | 86                 | 48                 | 8               |                       | 14               | 256                 |
| 1956                             | 113                | 88                 | 42                 | 6               |                       | 22               | 271                 |
| 1957                             | 109                | 100                | 30                 | 7               | 2                     | 18               | 267                 |
| 1958                             | 116 <sup>3</sup>   | 111                | 15                 | 10              | 3                     | 24               | 279                 |
| 1959                             | 102 <sup>3</sup>   | 137                | 16                 | 9               | 7                     | 29               | 302                 |
| 1960                             | 94 <sup>3</sup>    | 141                | 12                 | 1               | 8                     | 28               | 293                 |
| 1961                             | 99 <sup>3</sup>    | 158                | 11                 | 10              |                       | 28               | 306                 |
| 1962                             | 96 <sup>3</sup>    | 179                | 14                 | 8               |                       | 28               | 325                 |
| 1963                             | 94 <sup>3</sup>    | 179                | 15                 | 6               |                       | 28               | 322                 |
| 1964                             | 110 <sup>3</sup>   | 212                | 23                 | 7               |                       | 31               | 382                 |
| 1965                             | 109 <sup>3</sup>   | 272                | 28                 | 8               |                       | 29               | 446                 |
| 1966                             | 144 <sup>3</sup>   | 330                | 20                 | 7               |                       | 5                | 506                 |
| 1967                             | 131 <sup>3</sup>   | 332                | 33                 | 4               |                       |                  | 501                 |
| 1968                             | 109 <sup>3</sup>   | 357                | 21                 | 4               |                       | 4                | 497                 |
| 1969                             | 135 <sup>3</sup>   | 417                | 14                 | 5               | 6                     | 1                | 576                 |
| 1970                             | 112 <sup>2 3</sup> | 430 <sup>2</sup>   | 14 <sup>2</sup>    | 5 <sup>2</sup>  | 6                     | 5                | 330 <sup>2</sup>    |

1. Less than 500 tons.

2. Canadian Pulp and Paper Association estimate.

3. Includes dissolving and special alpha (sulphite and sulphate).  
Source: Dominion Bureau of Statistics.



# IV. Newsprint

31

| Newsprint production | Production | Operating ratio   |
|----------------------|------------|-------------------|
|                      | '000 Tons  | %                 |
| 1951                 | 5,516      | 102.9             |
| 1952                 | 5,687      | 103.2             |
| 1953                 | 5,721      | 100.0             |
| 1954                 | 5,984      | 101.1             |
| 1955                 | 6,191      | 102.1             |
| 1956                 | 6,469      | 103.6             |
| 1957                 | 6,397      | 94.7              |
| 1958                 | 6,096      | 84.2              |
| 1959                 | 6,394      | 85.0              |
| 1960                 | 6,739      | 88.5              |
| 1961                 | 6,735      | 87.1              |
| 1962                 | 6,691      | 85.3              |
| 1963                 | 6,630      | 82.3              |
| 1964                 | 7,301      | 88.2              |
| 1965                 | 7,720      | 91.7              |
| 1966                 | 8,419      | 94.8              |
| 1967                 | 8,051      | 86.6              |
| 1968                 | 8,031      | 83.2              |
| 1969                 | 8,758      | 91.1 <sup>1</sup> |
| 1970                 | 8,607      | 88.6 <sup>1</sup> |

1. See note and footnote, Table 32.

Source: Newsprint Division, Canadian Pulp and Paper Association.

33

| Newsprint shipments | Shipments in Canada | Exports   | Total shipments |
|---------------------|---------------------|-----------|-----------------|
|                     | '000 Tons           | '000 Tons | '000 Tons       |
| 1951                | 360                 | 5,144     | 5,504           |
| 1952                | 369                 | 5,298     | 5,666           |
| 1953                | 398                 | 5,334     | 5,733           |
| 1954                | 421                 | 5,550     | 5,970           |
| 1955                | 430                 | 5,805     | 6,236           |
| 1956                | 477                 | 5,972     | 6,449           |
| 1957                | 457                 | 5,907     | 6,364           |
| 1958                | 434                 | 5,609     | 6,043           |
| 1959                | 473                 | 5,953     | 6,425           |
| 1960                | 487                 | 6,265     | 6,752           |
| 1961                | 492                 | 6,216     | 6,707           |
| 1962                | 511                 | 6,169     | 6,680           |
| 1963                | 523                 | 6,100     | 6,622           |
| 1964                | 550                 | 6,759     | 7,310           |
| 1965                | 590                 | 7,157     | 7,747           |
| 1966                | 620                 | 7,764     | 8,385           |
| 1967                | 638                 | 7,330     | 7,968           |
| 1968                | 674                 | 7,422     | 8,096           |
| 1969                | 708                 | 8,033     | 8,741           |
| 1970                | 716                 | 7,876     | 8,592           |

Source: Newsprint Division, Canadian Pulp and Paper Association.

34

| Newsprint exports by areas | United States | United Kingdom | Central & South America | Western Europe | Africa & Mediterranean area | India & Orient | Australia New Zealand & Fiji | All countries |
|----------------------------|---------------|----------------|-------------------------|----------------|-----------------------------|----------------|------------------------------|---------------|
|                            | '000 Tons     | '000 Tons      | '000 Tons               | '000 Tons      | '000 Tons                   | '000 Tons      | '000 Tons                    | '000 Tons     |
| 1951                       | 4,784         | 103            | 132                     | 20             | 24                          | 43             | 38                           | 5,144         |
| 1952                       | 4,835         | 136            | 163                     | 10             | 42                          | 36             | 76                           | 5,298         |
| 1953                       | 4,861         | 190            | 158                     | 4              | 28                          | 44             | 48                           | 5,334         |
| 1954                       | 4,875         | 273            | 186                     | 54             | 32                          | 52             | 77                           | 5,550         |
| 1955                       | 5,070         | 307            | 167                     | 70             | 40                          | 52             | 99                           | 5,805         |
| 1956                       | 5,230         | 355            | 192                     | 34             | 45                          | 41             | 74                           | 5,972         |
| 1957                       | 5,055         | 396            | 240                     | 34             | 53                          | 47             | 83                           | 5,907         |
| 1958                       | 4,827         | 394            | 202                     | 26             | 54                          | 26             | 80                           | 5,609         |
| 1959                       | 5,118         | 415            | 207                     | 6              | 65                          | 39             | 102                          | 5,953         |
| 1960                       | 5,279         | 479            | 235                     | 15             | 73                          | 22             | 162                          | 6,265         |
| 1961                       | 5,227         | 459            | 272                     | 23             | 58                          | 30             | 147                          | 6,216         |
| 1962                       | 5,229         | 498            | 233                     | 10             | 43                          | 47             | 110                          | 6,169         |
| 1963                       | 5,180         | 458            | 245                     | 24             | 46                          | 66             | 82                           | 6,100         |
| 1964                       | 5,648         | 481            | 261                     | 18             | 67                          | 154            | 130                          | 6,759         |
| 1965                       | 6,093         | 390            | 324                     | 61             | 59                          | 107            | 122                          | 7,157         |
| 1966                       | 6,610         | 386            | 389                     | 83             | 17                          | 133            | 146                          | 7,764         |
| 1967                       | 6,263         | 345            | 348                     | 81             | 7                           | 155            | 131                          | 7,330         |
| 1968                       | 6,107         | 441            | 394                     | 74             | 14                          | 257            | 135                          | 7,422         |
| 1969                       | 6,417         | 461            | 540                     | 109            | 28                          | 353            | 125                          | 8,033         |
| 1970                       | 6,144         | 414            | 637                     | 138            | 64                          | 338            | 139                          | 7,876         |

Source: Newsprint Division, Canadian Pulp and Paper Association.

32

| Newsprint capacity | Annual capacity     |
|--------------------|---------------------|
|                    | '000 Tons           |
| 1951               | 5,360               |
| 1952               | 5,510               |
| 1953               | 5,723               |
| 1954               | 5,920               |
| 1955               | 6,064               |
| 1956               | 6,243               |
| 1957               | 6,756               |
| 1958               | 7,239               |
| 1959               | 7,521               |
| 1960               | 7,611               |
| 1961               | 7,734               |
| 1962               | 7,844               |
| 1963               | 8,055               |
| 1964               | 8,274               |
| 1965               | 8,421               |
| 1966               | 8,878               |
| 1967               | 9,294               |
| 1968               | 9,655               |
| 1969               | 9,612 <sup>1</sup>  |
| 1970               | 9,719 <sup>1</sup>  |
| 1971               | 10,120 <sup>1</sup> |

Capacity is shown as at the beginning of each year plus allowances for new machines from the date they are expected to operate. It is possible for production to exceed capacity partly because no allowance is made for improvements in equipment during the year.

1. Changes made in calculation of capacity commencing with the year 1969 are fully explained in the Canadian Pulp and Paper Association's annual world survey "Newsprint Data: 1970". Amounts shown for the years prior to 1969 are on the old rating basis.

Source: Newsprint Division, Canadian Pulp and Paper Association.



| Value of newsprint production and exports | Production <sup>1</sup> | Exports   |
|-------------------------------------------|-------------------------|-----------|
|                                           | \$'000                  | \$'000    |
| 1951                                      | 564,361                 | 536,372   |
| 1952                                      | 600,516                 | 591,790   |
| 1953                                      | 633,408                 | 619,033   |
| 1954                                      | 657,487                 | 635,670   |
| 1955                                      | 688,338                 | 665,877   |
| 1956                                      | 734,426                 | 708,385   |
| 1957                                      | 724,613                 | 715,490   |
| 1958                                      | 694,067                 | 690,209   |
| 1959                                      | 732,849                 | 722,271   |
| 1960                                      | 793,470                 | 757,930   |
| 1961                                      | 804,641                 | 761,313   |
| 1962                                      | 819,079                 | 753,060   |
| 1963                                      | 809,247                 | 759,990   |
| 1964                                      | 887,612                 | 834,646   |
| 1965                                      | 927,832                 | 869,586   |
| 1966                                      | 1,025,048               | 968,224   |
| 1967                                      | 998,020                 | 955,261   |
| 1968                                      | 1,015,794               | 989,831   |
| 1969                                      | 1,114,707               | 1,125,801 |
| 1970                                      | 1,096,924 <sup>2</sup>  | 1,110,393 |

1. "Total selling value at mill" (of production) prior to 1956; "Value of shipments f.o.b. mill" beginning in 1956.

2. Canadian Pulp and Paper Association estimate.  
Source: Dominion Bureau of Statistics.

| Value of newsprint and total pulp and paper production | Newsprint production <sup>1</sup> | Total production <sup>2</sup> | Newsprint % of total |
|--------------------------------------------------------|-----------------------------------|-------------------------------|----------------------|
|                                                        | \$'000,000                        | \$'000,000                    |                      |
| 1951                                                   | 564.4                             | 1,237.9                       | 45.6                 |
| 1952                                                   | 600.5                             | 1,157.9                       | 51.9                 |
| 1953                                                   | 633.4                             | 1,179.7                       | 53.7                 |
| 1954                                                   | 657.5                             | 1,241.6                       | 53.0                 |
| 1955                                                   | 688.3                             | 1,326.9                       | 51.9                 |
| 1956                                                   | 734.4                             | 1,453.4                       | 50.5                 |
| 1957                                                   | 724.6                             | 1,415.8                       | 51.2                 |
| 1958                                                   | 694.1                             | 1,398.3                       | 49.6                 |
| 1959                                                   | 732.8                             | 1,502.3                       | 48.7                 |
| 1960                                                   | 793.4                             | 1,583.1                       | 50.1                 |
| 1961                                                   | 804.6                             | 1,632.8                       | 49.3                 |
| 1962                                                   | 819.1                             | 1,716.3                       | 47.7                 |
| 1963                                                   | 809.2                             | 1,793.2                       | 45.1                 |
| 1964                                                   | 887.6                             | 1,984.1                       | 44.7                 |
| 1965                                                   | 927.8                             | 2,104.4                       | 44.1                 |
| 1966                                                   | 1,025.0                           | 2,297.7                       | 44.6                 |
| 1967                                                   | 998.0                             | 2,301.0                       | 43.4                 |
| 1968                                                   | 1,015.8                           | 2,446.9                       | 41.5                 |
| 1969                                                   | 1,114.7                           | 2,771.3                       | 40.2                 |
| 1970 <sup>3</sup>                                      | 1,096.9                           | 2,685.4                       | 40.8                 |

1. See footnote 1, Table 35.

2. See footnote 2, Table 50.

3. Canadian Pulp and Paper Association estimate.  
Source: Dominion Bureau of Statistics.

| Sources of U.S. newsprint supply | Canada    |    | U.S.      |    | Europe    |   | Total     |
|----------------------------------|-----------|----|-----------|----|-----------|---|-----------|
|                                  | '000 Tons | %  | '000 Tons | %  | '000 Tons | % | '000 Tons |
| 1951                             | 4,784     | 79 | 1,108     | 18 | 206       | 3 | 6,097     |
| 1952                             | 4,835     | 79 | 1,075     | 18 | 183       | 3 | 6,093     |
| 1953                             | 4,861     | 80 | 1,057     | 17 | 164       | 3 | 6,083     |
| 1954                             | 4,875     | 80 | 1,121     | 18 | 128       | 2 | 6,124     |
| 1955                             | 5,070     | 77 | 1,374     | 21 | 146       | 2 | 6,589     |
| 1956                             | 5,230     | 74 | 1,583     | 22 | 311       | 4 | 7,124     |
| 1957                             | 5,055     | 73 | 1,698     | 25 | 155       | 2 | 6,908     |
| 1958                             | 4,827     | 73 | 1,676     | 25 | 109       | 2 | 6,611     |
| 1959                             | 5,118     | 71 | 1,909     | 27 | 124       | 2 | 7,151     |
| 1960                             | 5,279     | 72 | 1,954     | 26 | 147       | 2 | 7,379     |
| 1961                             | 5,227     | 71 | 1,965     | 27 | 155       | 2 | 7,346     |
| 1962                             | 5,229     | 70 | 2,086     | 28 | 186       | 2 | 7,500     |
| 1963                             | 5,180     | 69 | 2,099     | 28 | 189       | 3 | 7,468     |
| 1964                             | 5,648     | 70 | 2,170     | 27 | 260       | 3 | 8,078     |
| 1965                             | 6,093     | 72 | 2,118     | 25 | 255       | 3 | 8,466     |
| 1966                             | 6,610     | 72 | 2,339     | 25 | 274       | 3 | 9,223     |
| 1967                             | 6,263     | 69 | 2,523     | 28 | 283       | 3 | 9,069     |
| 1968                             | 6,107     | 66 | 2,835     | 31 | 284       | 3 | 9,225     |
| 1969                             | 6,417     | 65 | 3,116     | 32 | 293       | 3 | 9,826     |
| 1970                             | 6,144     | 64 | 3,162     | 33 | 314       | 3 | 9,621     |

Source: All figures for supply from Europe are compiled from U.S. Department of Commerce reports; supplies from Canada and U.S. are compiled from reports of mill shipments to the Newsprint Division, Canadian Pulp and Paper Association, and to the American Paper Institute, respectively.

| U.S.: prices and price indexes | Average delivered at New York <sup>1</sup> | Newsprint index 1926 = 100 |
|--------------------------------|--------------------------------------------|----------------------------|
| 1951                           | 111.00                                     | 158.6                      |
| 1952                           | 121.00                                     | 172.9                      |
| 1953                           | 126.00                                     | 180.0                      |
| 1954                           | 126.00                                     | 180.0                      |
| 1955                           | 126.00                                     | 180.0                      |
| 1956                           | 130.00                                     | 185.7                      |
| 1957                           | 133.00                                     | 190.0                      |
| 1958                           | 134.00                                     | 191.0                      |
| 1959                           | 134.00                                     | 191.0                      |
| 1960                           | 134.00                                     | 191.0                      |
| 1961                           | 134.00                                     | 191.0                      |
| 1962                           | 134.00                                     | 191.0                      |
| 1963                           | 134.00                                     | 191.0                      |
| 1964                           | 134.00                                     | 191.0                      |
| 1965                           | 134.00                                     | 191.0                      |
| 1966                           | 136.92                                     | 195.6                      |
| 1967                           | 140.50                                     | 200.7                      |
| 1968                           | 142.00                                     | 202.9                      |
| 1969                           | 147.00                                     | 210.0                      |
| 1970                           | 152.00                                     | 217.1                      |

1. U.S. Dollars.

Source: Newsprint Division, Canadian Pulp and Paper Association.



| U.S. newsprint industry | Capacity  | Production | Shipments to U.S.A. | Shipments overseas | Total shipments |
|-------------------------|-----------|------------|---------------------|--------------------|-----------------|
|                         | '000 Tons | '000 Tons  | '000 Tons           | '000 Tons          | '000 Tons       |
| 1951                    | 1,050     | 1,125      | 1,108               | 18                 | 1,125           |
| 1952                    | 1,165     | 1,147      | 1,076               | 67                 | 1,143           |
| 1953                    | 1,170     | 1,084      | 1,057               | 30                 | 1,088           |
| 1954                    | 1,280     | 1,211      | 1,121               | 92                 | 1,213           |
| 1955                    | 1,409     | 1,552      | 1,374               | 177                | 1,550           |
| 1956                    | 1,625     | 1,717      | 1,583               | 133                | 1,715           |
| 1957                    | 1,921     | 1,826      | 1,698               | 118                | 1,817           |
| 1958                    | 2,100     | 1,758      | 1,676               | 85                 | 1,761           |
| 1959                    | 2,390     | 1,964      | 1,909               | 53                 | 1,963           |
| 1960                    | 2,399     | 2,038      | 1,954               | 77                 | 2,031           |
| 1961                    | 2,376     | 2,094      | 1,965               | 122                | 2,086           |
| 1962                    | 2,471     | 2,154      | 2,086               | 76                 | 2,162           |
| 1963                    | 2,461     | 2,218      | 2,099               | 109                | 2,208           |
| 1964                    | 2,469     | 2,261      | 2,170               | 104                | 2,273           |
| 1965                    | 2,497     | 2,180      | 2,118               | 65                 | 2,183           |
| 1966                    | 2,647     | 2,408      | 2,339               | 66                 | 2,405           |
| 1967                    | 3,024     | 2,620      | 2,523               | 79                 | 2,602           |
| 1968 <sup>1</sup>       | 3,254     | 2,935      | 2,835               | 112                | 2,946           |
| 1969 <sup>1</sup>       | 3,549     | 3,232      | 3,116               | 117                | 3,233           |
| 1970                    | 3,396     | 3,310      | 3,162               | 141                | 3,303           |

These figures are compiled from U.S. mill reports and shipments to overseas show only exports direct from mills. They do not include tonnage delivered to U.S. buyers and subsequently resold for export, such as tonnage being included in shipments to U.S.A. Exports as reported by U.S. Department of Commerce are thus higher than mill reports; in 1970 the Department showed exports of 144,000 tons versus 141,000 tons reported by the mills.

1. Capacity for the years 1968 on have been adjusted in order to represent more realistically maximum possible production.

Source: Newsprint Division, American Paper Institute.

#### U.S. newsprint consumption and stocks

|      | Consumption ANPA | Consumption total | Consumption per capita | Consumers' stocks <sup>1</sup> ANPA | Consumers' stocks <sup>1</sup> total |
|------|------------------|-------------------|------------------------|-------------------------------------|--------------------------------------|
|      | '000 Tons        | '000 Tons         | Lbs.                   | '000 Tons                           | '000 Tons                            |
| 1951 | 4,511            | 5,975             | 77.4                   | 522                                 | 716                                  |
| 1952 | 4,551            | 5,988             | 76.3                   | 612                                 | 821                                  |
| 1953 | 4,669            | 6,143             | 76.9                   | 552                                 | 761                                  |
| 1954 | 4,684            | 6,163             | 75.9                   | 516                                 | 722                                  |
| 1955 | 5,045            | 6,638             | 80.3                   | 458                                 | 673                                  |
| 1956 | 5,209            | 6,899             | 82.1                   | 636                                 | 898                                  |
| 1957 | 5,149            | 6,865             | 80.2                   | 675                                 | 940                                  |
| 1958 | 4,950            | 6,644             | 76.3                   | 652                                 | 907                                  |
| 1959 | 5,328            | 7,151             | 81.0                   | 659                                 | 907                                  |
| 1960 | 5,532            | 7,426             | 82.2                   | 628                                 | 861                                  |
| 1961 | 5,461            | 7,380             | 80.4                   | 584                                 | 827                                  |
| 1962 | 5,577            | 7,486             | 80.3                   | 604                                 | 841                                  |
| 1963 | 5,585            | 7,547             | 79.8                   | 545                                 | 762                                  |
| 1964 | 6,031            | 8,042             | 83.7                   | 585                                 | 798                                  |
| 1965 | 6,387            | 8,460             | 87.0                   | 573                                 | 805                                  |
| 1966 | 6,898            | 9,077             | 92.2                   | 681                                 | 951                                  |
| 1967 | 6,907            | 9,149             | 91.9                   | 630                                 | 871                                  |
| 1968 | 7,025            | 9,244             | 91.9                   | 633                                 | 853                                  |
| 1969 | 7,344            | 9,741             | 95.9                   | 699                                 | 938                                  |
| 1970 | 7,130            | 9,545             | 93.2                   | 749                                 | 1,013                                |

Note: U.S. total consumption is based on consumption reported by the American Newspaper Publishers Association group. For each year the percentage of total U.S. supply taken by this group is assumed to represent the percentage of total consumption consumed by the group. Total U.S. consumption is obtained by extending ANPA consumption by this percentage to 100. Total consumers' stocks at the beginning of each year plus supplies received less total consumption equals stocks at the end of the year.

1. End of each year.

Source: Newsprint Division, Canadian Pulp and Paper Association.

| Consumption by larger newspapers       | 1970             | 1969      |
|----------------------------------------|------------------|-----------|
|                                        | '000 Tons        | '000 Tons |
| <b>Canada</b>                          |                  |           |
| Calgary Herald                         | 15               | 14        |
| Edmonton Journal                       | 21               | 20        |
| Halifax Chronicle - Herald & Mail Star | 10               | 10        |
| Hamilton Spectator                     | 17               | 17        |
| London Free Press                      | 15               | 15        |
| Montreal Gazette                       | 13               | 13        |
| Montreal La Presse                     | 37               | 38        |
| Montreal Star                          | 31               | 34        |
| Ottawa Citizen                         | 10               | 10        |
| Quebec Le Soleil                       | 18               | 17        |
| Toronto Globe & Mail                   | 32               | 33        |
| Toronto Telegram                       | 44               | 47        |
| Vancouver Sun & Province               | 36 <sup>1</sup>  | 54        |
| Winnipeg Tribune                       | 8                | 9         |
| <b>United States</b>                   |                  |           |
| Atlanta Journal & Constitution         | 111              | 110       |
| Baltimore Sun                          | 45 <sup>1</sup>  | 64        |
| Chicago Sun Times & Daily News         | 158              | 162       |
| Chicago Today & Tribune                | 261              | 284       |
| Cleveland Plain Dealer                 | 96               | 105       |
| Denver Post                            | 51               | 52        |
| Des Moines Register & Tribune          | 35               | 37        |
| Detroit News                           | 149              | 150       |
| Kansas City Star & Times               | 72               | 79        |
| Louisville Courier — Journal & Times   | 94               | 91        |
| Miami Herald                           | 137              | 133       |
| Milwaukee Journal & Sentinel           | 109              | 121       |
| New York News                          | 365              | 364       |
| New York Times                         | 337              | 385       |
| Philadelphia Enquirer                  | 122 <sup>2</sup> | 138       |
| Pittsburg Press & Post Gazette         | 99               | 104       |
| St. Louis Post — Dispatch              | 77               | 82        |
| Washington Post                        | 155              | 156       |

1. Curtailed by strike.

2. Excludes Sunday comics and magazine.

Source: Newsprint Division, Canadian Pulp and Paper Association.

# V. Other Paper and Paperboard

42

| Paperboard production | Container board liner board | Container board corrugating <sup>1</sup> | Container board total | Boxboard folding board | Boxboard non-folding board | Boxboard solid bleached board | Boxboard other | Boxboard total | Total paperboard |
|-----------------------|-----------------------------|------------------------------------------|-----------------------|------------------------|----------------------------|-------------------------------|----------------|----------------|------------------|
|                       | '000 Tons                   | '000 Tons                                | '000 Tons             | '000 Tons              | '000 Tons                  | '000 Tons                     | '000 Tons      | '000 Tons      | '000 Tons        |
| 1950                  | 214                         | 152                                      | 366                   | 158                    | 48                         | 3                             | 200            | 405            | 771              |
| 1951                  | 223                         | 159                                      | 382                   | 172                    | 49                         | 3                             | 217            | 439            | 820              |
| 1952                  | 219                         | 134                                      | 354                   | 156                    | 43                         | 3                             | 191            | 390            | 743              |
| 1953                  | 237                         | 149                                      | 386                   | 169                    | 48                         | 3                             | 201            | 418            | 804              |
| 1954                  | 244                         | 135                                      | 379                   | 175                    | 46                         | 3                             | 199            | 420            | 799              |
| 1955                  | 259                         | 158                                      | 417                   | 186                    | 48                         | 3                             | 211            | 445            | 861              |
| 1956                  | 330                         | 172                                      | 502                   | 216                    | 48                         | 3                             | 212            | 476            | 978              |
| 1957                  | 309                         | 163                                      | 473                   | 215                    | 46                         | 3                             | 192            | 453            | 926              |
| 1958                  | 318                         | 181                                      | 499                   | 237                    | 61                         | 3                             | 183            | 481            | 980              |
| 1959                  | 355                         | 185                                      | 540                   | 241                    | 72                         | 3                             | 180            | 494            | 1,033            |
| 1960                  | 376                         | 208                                      | 583                   | 233                    | 65                         | 14                            | 165            | 476            | 1,060            |
| 1961                  | 393                         | 202                                      | 595                   | 230                    | 72                         | 16                            | 144            | 462            | 1,057            |
| 1962                  | 441                         | 224                                      | 665                   | 247                    | 79                         | 17                            | 160            | 503            | 1,168            |
| 1963                  | 511                         | 227                                      | 738                   | 280                    | 78                         | 21                            | 173            | 553            | 1,290            |
| 1964                  | 522                         | 240                                      | 762                   | 247                    | 92                         | 86                            | 229            | 654            | 1,416            |
| 1965                  | 595                         | 251                                      | 845                   | 265                    | 104                        | 89                            | 237            | 694            | 1,539            |
| 1966                  | 677                         | 284                                      | 961                   | 278                    | 112                        | 103                           | 227            | 721            | 1,682            |
| 1967                  | 699                         | 294                                      | 993                   | 265                    | 119                        | 77                            | 251            | 712            | 1,705            |
| 1968                  | 723                         | 299                                      | 1,022                 | 264                    | 122                        | 73                            | 265            | 724            | 1,746            |
| 1969                  | 777                         | 336                                      | 1,113                 | 268                    | 125                        | 93                            | 296            | 781            | 1,895            |
| 1970 <sup>2</sup>     | 764                         | 349                                      | 1,113                 | 255                    | 113                        | 77                            | 265            | 710            | 1,823            |

1. Includes container chipboard.

2. Canadian Pulp and Paper Association estimates.

3. Included with folding board.

Source: Dominion Bureau of Statistics.

43

| Production, other papers and boards | Wrapping papers  | Book & writing papers <sup>1</sup> | Tissue & sanitary papers | Building papers  | Building boards <sup>2</sup> | Wet machine boards <sup>3</sup> | Special industrial papers |
|-------------------------------------|------------------|------------------------------------|--------------------------|------------------|------------------------------|---------------------------------|---------------------------|
|                                     | '000 Tons        | '000 Tons                          | '000 Tons                | '000 Tons        | '000 Tons                    | '000 Tons                       | '000 Tons                 |
| 1950                                | 223              | 214                                | 77                       | 92               | 97                           | 9                               | 10                        |
| 1951                                | 257              | 253                                | 90                       | 92               | 131                          | 9                               | 12                        |
| 1952                                | 223              | 225                                | 80                       | 82               | 123                          | 8                               | 11                        |
| 1953                                | 238              | 247                                | 87                       | 91               | 137                          | 8                               | 10                        |
| 1954                                | 250              | 269                                | 95                       | 85               | 134                          | 7                               | 9                         |
| 1955                                | 264              | 301                                | 107                      | 96               | 158                          | 8                               | 8                         |
| 1956                                | 288              | 342                                | 119                      | 92               | 187                          | 8                               | 7                         |
| 1957                                | 277              | 335                                | 123                      | 82               | 180                          | 9                               | 7                         |
| 1958                                | 293              | 345                                | 128                      | 90               | 202                          | 7                               | 6                         |
| 1959                                | 330              | 382                                | 140                      | 85               | 215                          | 7                               | 7                         |
| 1960                                | 321              | 404                                | 149                      | 77               | 210                          | 7                               | 6                         |
| 1961                                | 327              | 420                                | 157                      | 74               | 221 <sup>5</sup>             | 9                               | 7                         |
| 1962                                | 333              | 435                                | 169                      | 89               | 210 <sup>5</sup>             | 10                              | 8                         |
| 1963                                | 341              | 465                                | 201                      | 90               | 219                          | 4                               | 16                        |
| 1964                                | 346              | 495                                | 196                      | 94               | 291                          | 4                               | 16                        |
| 1965                                | 366              | 534                                | 193                      | 88               | 297                          | 4                               | 20                        |
| 1966                                | 429              | 650                                | 208                      | 86               | 284                          | 4                               | 27                        |
| 1967                                | 463              | 646                                | 224                      | 83               | 306                          | 4                               | 23                        |
| 1968                                | 468              | 674                                | 254                      | 98               | 357                          | 4                               | 29                        |
| 1969                                | 505              | 759                                | 281                      | 116              | 393                          | 4                               | 23                        |
| 1970                                | 472 <sup>5</sup> | 899 <sup>5</sup>                   | 282 <sup>5</sup>         | 113 <sup>5</sup> | 373 <sup>5</sup>             | 4                               | 23 <sup>5</sup>           |

1. Groundwood printing and specialty papers (containing more than 50% groundwood); book paper (including printing papers with 50% or less groundwood); fine papers; and miscellaneous fine papers.

2. Reported in pulp and paper industry only. Wood pulp board used in paper-converting plants to produce laminated building boards is reported by pulp and paper mills as "other boxboard".

3. Prior to 1949 some producers of wet machine board were classed in another industry.

4. Included with special industrial papers.

5. Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.



**Exports of paper (except newsprint) and paperboard, tonnage**

|      | Book & writing paper | Wrapping paper | Tissue & sanitary paper | Paperboard | Building board | Other paper & board <sup>1</sup> | Total     |
|------|----------------------|----------------|-------------------------|------------|----------------|----------------------------------|-----------|
|      | '000 Tons            | '000 Tons      | '000 Tons               | '000 Tons  | '000 Tons      | '000 Tons                        | '000 Tons |
| 1960 | 61                   | 34             | 5                       | 104        | 25             | 46                               | 275       |
| 1961 | 64                   | 43             | 7                       | 105        | 24             | 54                               | 297       |
| 1962 | 70                   | 36             | 13                      | 129        | 24             | 56                               | 328       |
| 1963 | 78                   | 31             | 12                      | 169        | 33             | 62                               | 385       |
| 1964 | 108                  | 32             | 15                      | 178        | 42             | 67                               | 442       |
| 1965 | 130                  | 29             | 12                      | 186        | 58             | 82                               | 497       |
| 1966 | 171                  | 47             | 14                      | 254        | 39             | 114                              | 639       |
| 1967 | 182                  | 100            | 19                      | 244        | 40             | 90                               | 675       |
| 1968 | 162                  | 111            | 19                      | 253        | 62             | 113                              | 720       |
| 1969 | 244                  | 99             | 16                      | 286        | 67             | 114                              | 826       |
| 1970 | 339                  | 112            | 18                      | 320        | 64             | 114                              | 967       |

In the past, the basis and classification upon which exports of paper other than newsprint have been compiled have been modified from time to time. Consequently, only figures covering recent years are included in this and Tables 45 and 46. Again, the tonnage figures for certain paper products exported are not available. The

dollar figures covering these exports will be found in Table 47.

1. Coated paper (except machine coated), asphalt, shingles and roofing and building paper, special industrial paper, hanging paper, not printed, and waste paper, n.o.p.  
Source: Dominion Bureau of Statistics.

## 45

**Exports of paper (except newsprint) and paperboard, value**

|      | Book & writing paper | Wrapping paper | Tissue & sanitary paper | Paperboard | Building board | Other paper & board <sup>1</sup> | Total   |
|------|----------------------|----------------|-------------------------|------------|----------------|----------------------------------|---------|
|      | \$'000               | \$'000         | \$'000                  | \$'000     | \$'000         | \$'000                           | \$'000  |
| 1960 | 12,170               | 5,408          | 1,112                   | 11,858     | 2,259          | 2,157                            | 34,964  |
| 1961 | 12,880               | 6,464          | 1,496                   | 12,159     | 2,191          | 2,761                            | 37,951  |
| 1962 | 14,013               | 5,712          | 3,004                   | 14,915     | 2,417          | 3,653                            | 43,714  |
| 1963 | 15,578               | 5,312          | 2,597                   | 19,621     | 3,397          | 4,449                            | 50,954  |
| 1964 | 21,072               | 5,708          | 3,460                   | 20,454     | 4,472          | 5,000                            | 60,166  |
| 1965 | 24,749               | 5,348          | 2,820                   | 21,300     | 6,007          | 6,022                            | 66,246  |
| 1966 | 32,932               | 8,182          | 3,193                   | 29,732     | 4,436          | 8,413                            | 86,888  |
| 1967 | 35,516               | 14,992         | 4,169                   | 28,207     | 4,315          | 6,995                            | 94,194  |
| 1968 | 32,321               | 16,399         | 4,193                   | 29,316     | 6,452          | 6,972                            | 95,653  |
| 1969 | 48,663               | 15,050         | 4,121                   | 33,626     | 7,582          | 7,565                            | 116,607 |
| 1970 | 69,636               | 18,125         | 4,785                   | 38,825     | 7,109          | 7,669                            | 146,149 |

Note: See footnotes accompanying Table 44.  
Source: Dominion Bureau of Statistics.

## 46

**Exports of paper (except newsprint) and paperboard, by areas**

|      | United States | United States | United Kingdom | United Kingdom | Other countries | Other countries | All countries | All countries |
|------|---------------|---------------|----------------|----------------|-----------------|-----------------|---------------|---------------|
|      | '000 Tons     | \$'000        | '000 Tons      | \$'000         | '000 Tons       | \$'000          | '000 Tons     | \$'000        |
| 1960 | 111           | 12,559        | 131            | 16,036         | 33              | 6,369           | 275           | 34,964        |
| 1961 | 107           | 12,074        | 129            | 16,608         | 50              | 9,269           | 286           | 37,951        |
| 1962 | 130           | 13,887        | 155            | 21,404         | 43              | 8,423           | 328           | 43,714        |
| 1963 | 150           | 16,566        | 185            | 25,564         | 50              | 8,824           | 385           | 50,954        |
| 1964 | 172           | 19,640        | 191            | 27,898         | 79              | 12,628          | 443           | 60,166        |
| 1965 | 224           | 26,726        | 189            | 25,595         | 83              | 13,925          | 497           | 66,250        |
| 1966 | 275           | 34,931        | 241            | 32,952         | 123             | 18,995          | 639           | 86,888        |
| 1967 | 254           | 35,013        | 295            | 39,170         | 126             | 20,011          | 675           | 94,194        |
| 1968 | 283           | 37,303        | 287            | 37,014         | 150             | 21,311          | 720           | 95,653        |
| 1969 | 374           | 56,785        | 260            | 33,875         | 190             | 25,947          | 826           | 116,607       |
| 1970 | 438           | 70,450        | 294            | 42,707         | 234             | 32,992          | 967           | 146,149       |

Source: Dominion Bureau of Statistics.

## 47

**Exports of paper products**

|      | Paper bags & multi-wall sacks | Paper containers & parts (n.e.s.) | Wall paper | Packaged toilet paper | Notebooks scribblers & pads | Stationery paper office supplies (n.e.s.) | Converted paper | Paper end products (n.e.s.) | Total  |
|------|-------------------------------|-----------------------------------|------------|-----------------------|-----------------------------|-------------------------------------------|-----------------|-----------------------------|--------|
|      | \$'000                        | \$'000                            | \$'000     | \$'000                | \$'000                      | \$'000                                    | \$'000          | \$'000                      | \$'000 |
| 1961 | 543                           | 703                               | 1,378      | 426                   | 147                         | 308                                       | 242             | 141                         | 3,888  |
| 1962 | 499                           | 1,110                             | 1,645      | 644                   | 161                         | 369                                       | 416             | 141                         | 4,985  |
| 1963 | 484                           | 1,040                             | 1,665      | 955                   | 224                         | 450                                       | 1,551           | 172                         | 6,541  |
| 1964 | 579                           | 1,350                             | 1,805      | 984                   | 253                         | 531                                       | 3,394           | 135                         | 9,031  |
| 1965 | 679                           | 1,320                             | 1,832      | 631                   | 199                         | 767                                       | 3,343           | 145                         | 8,916  |
| 1966 | 671                           | 1,191                             | 2,330      | 680                   | 188                         | 808                                       | 3,005           | 179                         | 9,052  |
| 1967 | 473                           | 1,677                             | 2,774      | 753                   | 135                         | 783                                       | 2,521           | 220                         | 9,336  |
| 1968 | 678                           | 1,642                             | 4,143      | 780                   | 81                          | 986                                       | 4,624           | 523                         | 13,457 |
| 1969 | 403                           | 2,416                             | 5,326      | 965                   | 115                         | 860                                       | 4,750           | 771                         | 15,606 |
| 1970 | 658                           | 4,172                             | 5,111      | 666                   | 273                         | 948                                       | 6,303           | 617                         | 18,748 |

n.e.s.: not elsewhere specified.

Source: Dominion Bureau of Statistics.

| Other paper and paperboard annual productive capacity | Paperboard | Wrapping paper | Book and writing paper | Tissue and sanitary paper |
|-------------------------------------------------------|------------|----------------|------------------------|---------------------------|
|                                                       | '000 Tons  | '000 Tons      | '000 Tons              | '000 Tons                 |
| 1952                                                  | 821        | 260            | 264                    | 92                        |
| 1953                                                  | 840        | 265            | 270                    | 107                       |
| 1954                                                  | 918        | 274            | 274                    | 114                       |
| 1955                                                  | 923        | 293            | 283                    | 120                       |
| 1956                                                  | 1,029      | 324            | 361                    | 122                       |
| 1957                                                  | 1,078      | 386            | 377                    | 138                       |
| 1958                                                  | 1,096      | 371            | 386                    | 142                       |
| 1959                                                  | 1,139      | 363            | 392                    | 149                       |
| 1960                                                  | 1,162      | 361            | 438                    | 167                       |
| 1961                                                  | 1,242      | 365            | 465                    | 167                       |
| 1962                                                  | 1,275      | 380            | 485                    | 174                       |
| 1963                                                  | 1,333      | 418            | 492                    | 196                       |
| 1964                                                  | 1,378      | 400            | 578                    | 198                       |
| 1965                                                  | 1,450      | 384            | 615                    | 234                       |
| 1966                                                  | 1,763      | 438            | 807                    | 264                       |
| 1967                                                  | 1,745      | 533            | 767                    | 268                       |
| 1968                                                  | 1,808      | 542            | 872                    | 275                       |
| 1969                                                  | 1,915      | 588            | 938                    | 308                       |
| 1970                                                  | 2,055      | 570            | 1,101                  | 318                       |
| 1971 <sup>1</sup>                                     | 2,230      | 714            | 1,165                  | 338                       |
| 1972 <sup>1</sup>                                     | 2,643      | 780            | 1,176                  | 371                       |
| 1973 <sup>1</sup>                                     | 2,752      | 790            | 1,198                  | 408                       |

1. Preliminary.

Source: Canadian Pulp and Paper Association estimates.

| Imports of paper and paperboard, and paper goods | Fine papers | Tissue and sanitary papers | Wrapping papers | Specialty papers | Building papers and boards | Other paper-boards | Paper and Paper goods |
|--------------------------------------------------|-------------|----------------------------|-----------------|------------------|----------------------------|--------------------|-----------------------|
|                                                  | '000 Tons   | '000 Tons                  | '000 Tons       | '000 Tons        | '000 Tons                  | '000 Tons          | \$'000                |
| 1951                                             | 11          | 4                          | 2               | 3                | 14                         | 35                 | 34,831                |
| 1952                                             | 11          | 4                          | 1               | 2                | 15                         | 32                 | 29,921                |
| 1953                                             | 12          | 6                          | 1               | 4                | 28                         | 42                 | 39,208                |
| 1954                                             | 15          | 7                          | 4               | 4                | 32                         | 52                 | 43,558                |
| 1955                                             | 17          | 8                          | 4               | 5                | 33                         | 67                 | 52,690                |
| 1956                                             | 18          | 9                          | 4               | 6                | 42                         | 78                 | 62,217                |
| 1957                                             | 17          | 11                         | 6               | 5                | 38                         | 79                 | 62,249                |
| 1958                                             | 20          | 12                         | 9               | 5                | 37                         | 84                 | 65,735                |
| 1959                                             | 21          | 12                         | 5               | 6                | 43                         | 86                 | 68,273                |
| 1960                                             | 20          | 11                         | 4               | 5                | 43                         | 81                 | 68,910                |
| 1961                                             | 22          | 9                          | 5               | 5                | 37                         | 108                | 75,717                |
| 1962                                             | 22          | 8                          | 3               | 6                | 33                         | 98                 | 80,379                |
| 1963                                             | 23          | 7                          | 4               | 6                | 28                         | 91                 | 76,644                |
| 1964                                             | 21          | 7                          | 12              | 8                | 28                         | 84                 | 79,255                |
| 1965                                             | 23          | 9                          | 7               | 8                | 30                         | 90                 | 87,551                |
| 1966                                             | 25          | 7                          | 5               | 8                | 32                         | 84                 | 97,001                |
| 1967                                             | 25          | 6                          | 6               | 7                | 31                         | 91                 | 103,058               |
| 1968                                             | 31          | 10                         | 17              | 10               | 36                         | 94                 | 110,239               |
| 1969                                             | 46          | 9                          | 16              | 11               | 42                         | 100                | 126,264               |
| 1970                                             | 46          | 8                          | 11              | 13               | 29                         | 116                | 127,905               |

Note: This table covers all imports reported in classifications used prior to 1st January 1964 as well as in subsequent classifications to date.

Source: Dominion Bureau of Statistics.



VI. National Significance

| 50                | Pulp and paper production and the national income |                                     |
|-------------------|---------------------------------------------------|-------------------------------------|
|                   | Gross production of industry                      | Gross national product <sup>1</sup> |
|                   | \$'000,000                                        | \$'000,000                          |
| 1926              | 215                                               | 5,152                               |
| 1930              | 216                                               | 5,728                               |
| 1935              | 159                                               | 4,315                               |
| 1940              | 298                                               | 6,743                               |
| 1945              | 399                                               | 11,835                              |
| 1950              | 954                                               | 18,006                              |
| 1955              | 1,327                                             | 27,132                              |
| 1956              | 1,453                                             | 30,585                              |
| 1957 <sup>2</sup> | 1,416                                             | 31,909                              |
| 1958 <sup>2</sup> | 1,398                                             | 32,894                              |
| 1959 <sup>2</sup> | 1,502                                             | 34,915                              |
| 1960 <sup>2</sup> | 1,583                                             | 36,287                              |
| 1961 <sup>2</sup> | 1,633                                             | 37,471                              |
| 1962 <sup>2</sup> | 1,716                                             | 40,575                              |
| 1963 <sup>2</sup> | 1,793                                             | 43,424                              |
| 1964 <sup>2</sup> | 1,984                                             | 47,393                              |
| 1965 <sup>2</sup> | 2,104                                             | 52,203                              |
| 1966 <sup>2</sup> | 2,298                                             | 58,104                              |
| 1967 <sup>2</sup> | 2,301                                             | 65,722                              |
| 1968 <sup>2</sup> | 2,447                                             | 71,388                              |
| 1969 <sup>2</sup> | 2,771                                             | 78,560                              |
| 1970 <sup>2</sup> | 2,685 <sup>3</sup>                                | 84,468 <sup>4</sup>                 |

1. The gross national product is the market value of all goods and services produced in Canada.
2. All principal statistics of manufactures (i.e. number of establishments, number of employees, total salaries and wages paid, cost of fuel, electricity and materials used, selling value of factory shipments and value added by manufacture or net value) shown in this publication for the years 1957 to 1960 have been revised by the Dominion Bureau of Statistics on the basis of the new Standard Industrial Classification adopted as of 1st January 1960 and of the new Establishment (reporting unit) Concept adopted as of 1st January 1961. Because of these changes, principal statistics for years prior to 1957 are not fully comparable with those for the years that follow. See also footnote 6, Table 66.
3. Canadian Pulp and Paper Association estimate.
4. Preliminary.
- Source : Dominion Bureau of Statistics.

| 51                                        |                      |                                  |                                       |
|-------------------------------------------|----------------------|----------------------------------|---------------------------------------|
| Pulp and paper exports and Canadian trade | Pulp & paper exports | Total domestic exports of Canada | Pulp & paper exports to total exports |
|                                           | \$'000               | \$'000                           | %                                     |
| 1919                                      | 97,168               | 1,253,958                        | 7.86                                  |
| 1920                                      | 163,128              | 1,268,015                        | 12.86                                 |
| 1925                                      | 154,556              | 1,239,554                        | 12.47                                 |
| 1930                                      | 177,590              | 863,684                          | 20.56                                 |
| 1935                                      | 121,667              | 724,977                          | 16.78                                 |
| 1940                                      | 231,810              | 1,178,954                        | 19.66                                 |
| 1945                                      | 309,067              | 3,218,330                        | 9.60                                  |
| 1950                                      | 713,870              | 3,118,387                        | 22.89                                 |
| 1955                                      | 991,543              | 4,281,784                        | 23.16                                 |
| 1956                                      | 1,045,828            | 4,789,746                        | 21.83                                 |
| 1957                                      | 1,043,559            | 4,839,094                        | 21.56                                 |
| 1958                                      | 1,010,147            | 4,823,347                        | 20.91                                 |
| 1959                                      | 1,073,485            | 5,060,710                        | 21.21                                 |
| 1960                                      | 1,123,824            | 5,255,575                        | 21.38                                 |
| 1961                                      | 1,151,558            | 5,754,986                        | 20.00                                 |
| 1962                                      | 1,174,145            | 6,178,523                        | 19.00                                 |
| 1963                                      | 1,226,130            | 6,798,538                        | 18.04                                 |
| 1964                                      | 1,368,731            | 8,094,360                        | 16.91                                 |
| 1965                                      | 1,442,097            | 8,525,078                        | 16.92                                 |
| 1966                                      | 1,588,106            | 10,070,627                       | 15.77                                 |
| 1967                                      | 1,605,539            | 11,111,580                       | 14.45                                 |
| 1968                                      | 1,729,386            | 13,250,960                       | 13.05                                 |
| 1969                                      | 2,014,069            | 14,503,638                       | 13.89                                 |
| 1970                                      | 2,063,395            | 16,458,183                       | 12.54                                 |

Source : Dominion Bureau of Statistics.

52

| Growth of the industry | Pulp and paper mills | Total employees <sup>1</sup> | Total production <sup>2</sup> |
|------------------------|----------------------|------------------------------|-------------------------------|
|                        |                      |                              | \$'000                        |
| 1871                   | 21                   | 760                          | 1,072                         |
| 1881                   | 41                   | 1,588                        | 2,510                         |
| 1891                   | 58                   | 2,817                        | 3,633                         |
| 1901                   | 53                   | 6,236                        | 8,628                         |
| 1911                   | 72                   | 9,766                        | 23,226                        |
| 1921                   | 100                  | 24,619                       | 151,003                       |
| 1931                   | 103                  | 26,669                       | 174,734                       |
| 1941                   | 106                  | 37,154                       | 334,726                       |
| 1945                   | 109                  | 39,996                       | 398,805                       |
| 1947                   | 115                  | 49,946                       | 706,972                       |
| 1949                   | 123                  | 52,050                       | 836,148                       |
| 1950                   | 123                  | 52,343                       | 954,138                       |
| 1951                   | 126                  | 57,291                       | 1,237,897                     |
| 1952                   | 128                  | 57,803                       | 1,157,888                     |
| 1953                   | 127                  | 58,194                       | 1,179,665                     |
| 1954                   | 125                  | 60,837                       | 1,241,665                     |
| 1955                   | 125                  | 62,205                       | 1,326,938                     |
| 1956                   | 126                  | 65,985                       | 1,453,442                     |
| 1957                   | 127                  | 66,067                       | 1,415,821                     |
| 1958                   | 127                  | 64,199                       | 1,398,349                     |
| 1959                   | 126                  | 65,162                       | 1,502,312                     |
| 1960                   | 126                  | 65,772                       | 1,583,107                     |
| 1961                   | 125                  | 65,799                       | 1,632,834                     |
| 1962                   | 125                  | 64,885                       | 1,716,300                     |
| 1963                   | 126                  | 65,049                       | 1,793,231                     |
| 1964                   | 131                  | 67,729                       | 1,984,114                     |
| 1965                   | 132                  | 69,897                       | 2,104,425                     |
| 1966                   | 135                  | 73,501                       | 2,297,662                     |
| 1967                   | 137                  | 74,136                       | 2,301,044                     |
| 1968                   | 137                  | 73,498                       | 2,446,874                     |
| 1969                   | 137                  | 75,018                       | 2,783,004                     |
| 1970 <sup>3</sup>      | 140                  | 75,169                       | 2,685,354                     |

1. Wood employees not included.
2. See footnote 2, Table 50, and footnote 6, Table 66.
3. Canadian Pulp and Paper Association estimate.
- Source : Dominion Bureau of Statistics.

| 53                                                                                     | Principal Canadian exports |           |
|----------------------------------------------------------------------------------------|----------------------------|-----------|
|                                                                                        | 1970                       | 1969      |
|                                                                                        | \$'000                     | \$'000    |
| Passenger automobiles and chassis                                                      | 1,723,564                  | 1,842,248 |
| Newsprint                                                                              | 1,110,396                  | 1,125,801 |
| Motor vehicle parts, except engines                                                    | 816,198                    | 761,375   |
| Wood pulp                                                                              | 785,229                    | 753,497   |
| Wheat                                                                                  | 687,431                    | 472,712   |
| Lumber                                                                                 | 668,907                    | 700,641   |
| Crude petroleum                                                                        | 649,075                    | 525,780   |
| Trucks, truck tractors and chassis                                                     | 554,934                    | 562,707   |
| Copper and alloys                                                                      | 475,805                    | 303,075   |
| Iron ores and concentrates                                                             | 475,743                    | 333,155   |
| Nickel and alloys                                                                      | 465,149                    | 257,400   |
| Aluminum, including alloys                                                             | 460,245                    | 475,727   |
| Nickel in ores, concentrates and scrap                                                 | 369,935                    | 226,270   |
| Motor vehicle engines and parts                                                        | 336,622                    | 297,310   |
| Copper in ores, concentrates and scrap                                                 | 262,794                    | 233,732   |
| Asbestos, unmanufactured                                                               | 227,251                    | 216,276   |
| Fertilizers and fertilizer materials                                                   | 221,221                    | 171,927   |
| Communication and related equipment (except television and radio sets and phonographs) | 218,159                    | 183,047   |
| Natural gas                                                                            | 205,988                    | 176,188   |
| Aircraft parts, except engines                                                         | 198,991                    | 175,751   |
| Motor vehicles, except passenger cars, trucks and truck tractors                       | 186,863                    | 149,359   |
| Whisky                                                                                 | 183,202                    | 189,118   |
| Metal fabricated basic products                                                        | 142,088                    | 89,937    |
| Barley                                                                                 | 133,478                    | 30,427    |
| Aircraft engines and parts                                                             | 133,446                    | 137,488   |
| Plate, sheet and strip, steel                                                          | 132,646                    | 75,943    |
| Office machines and equipment                                                          | 131,650                    | 87,466    |
| Zinc in ores, concentrates and scrap                                                   | 118,320                    | 102,611   |
| Meat, fresh, chilled or frozen                                                         | 110,296                    | 72,257    |

Source : Dominion Bureau of Statistics.



| Capital expenditures | Capital construction | Capital machinery & equipment | Total expenditures |
|----------------------|----------------------|-------------------------------|--------------------|
|                      | \$'000,000           | \$'000,000                    | \$'000,000         |
| 1951                 | 35.1                 | 73.8                          | 108.9              |
| 1952                 | 29.0                 | 86.6                          | 115.6              |
| 1953                 | 18.5                 | 73.4                          | 91.9               |
| 1954                 | 13.8                 | 55.2                          | 69.0               |
| 1955                 | 26.9                 | 91.4                          | 118.3              |
| 1956                 | 79.4                 | 160.2                         | 239.6              |
| 1957                 | 52.1                 | 182.3                         | 234.4              |
| 1958                 | 18.1                 | 88.7                          | 106.8              |
| 1959                 | 21.7                 | 88.5                          | 110.2              |
| 1960                 | 27.8                 | 113.5                         | 141.3              |
| 1961                 | 33.1                 | 105.3                         | 138.4              |
| 1962                 | 34.5                 | 113.3                         | 147.8              |
| 1963                 | 36.4                 | 145.2                         | 181.6              |
| 1964                 | 64.7                 | 229.0                         | 293.7              |
| 1965                 | 102.2                | 281.6                         | 383.8              |
| 1966                 | 127.2                | 379.2                         | 506.4              |
| 1967                 | 99.0                 | 319.5                         | 418.5              |
| 1968                 | 58.2                 | 182.0                         | 240.2              |
| 1969                 | 97.1                 | 228.6                         | 325.7              |
| 1970                 | 131.1                | 338.2                         | 469.3              |
| 1971                 | 115.9                | 296.8                         | 412.7              |

Note: 1950-1969, Actual Expenditures; 1970, Preliminary Actual; 1971, Intentions.  
Source: Dominion Bureau of Statistics, Business Finance Division.

| Ten leading Canadian manufacturing industries 1968 <sup>1</sup> | Salaries and wages | Salaries and wages rank <sup>2</sup> | Employment | Employment rank <sup>2</sup> | Value added by manufacture | Added value rank <sup>2</sup> | Selling value of factory shipments | Selling value rank <sup>4</sup> |
|-----------------------------------------------------------------|--------------------|--------------------------------------|------------|------------------------------|----------------------------|-------------------------------|------------------------------------|---------------------------------|
|                                                                 | \$'000             |                                      |            |                              | \$'000                     |                               | \$'000                             |                                 |
| Pulp and paper mills                                            | 552,162            | 1                                    | 73,498     | 1                            | 1,080,941                  | 1                             | 2,446,874                          | 2                               |
| Motor vehicle manufacturers                                     | 349,509            | 2                                    | 39,113     | 6                            | 760,625                    | 2                             | 2,935,721                          | 1                               |
| Slaughtering and meat processors <sup>5</sup>                   | 190,975            | 8                                    | 30,541     | 8                            | 309,999                    | 8                             | 1,772,706                          | 3                               |
| Petroleum refining                                              | 80,010             | 10                                   | 9,091      | 10                           | 307,298                    | 9                             | 1,621,887                          | 4                               |
| Iron and steel mills                                            | 323,573            | 3                                    | 44,634     | 4                            | 684,684                    | 3                             | 1,367,087                          | 5                               |
| Motor vehicle parts and accessories manufacturers               | 280,666            | 5                                    | 39,454     | 5                            | 512,418                    | 6                             | 1,193,805                          | 6                               |
| Dairy factories                                                 | 160,943            | 9                                    | 29,841     | 9                            | 290,529                    | 10                            | 1,184,638                          | 7                               |
| Sawmills and planing mills                                      | 264,538            | 6                                    | 48,031     | 2                            | 542,049                    | 4                             | 1,179,572                          | 8                               |
| Miscellaneous machinery and equipment manufacturers             | 313,711            | 4                                    | 47,810     | 3                            | 513,338                    | 5                             | 1,008,012                          | 9                               |
| Smelting and refining                                           | 250,848            | 7                                    | 34,719     | 7                            | 477,763                    | 7                             | 932,585                            | 10                              |

1. Latest available.

2. Rank among ten leading industries listed.

3. Covers only mill workers.

4. Rank in Canadian Manufacturing Industries as a whole.

5. New classification 1968; comprises former "Slaughtering and meat packing plants", "Animal oils and fats plants" and "Sausage and sausage casing manufacturers" industries.

Source: Dominion Bureau of Statistics.

| Exports of Canadian products to the United States                 | 1970              | 1970          | 1969              | 1969          |
|-------------------------------------------------------------------|-------------------|---------------|-------------------|---------------|
|                                                                   | \$'000            | %             | \$'000            | %             |
| Live animals                                                      | 55,198            | 0.52          | 45,825            | 0.45          |
| Food, feed, beverages and tobacco                                 | 604,790           | 5.68          | 556,090           | 5.41          |
| Crude materials, inedible                                         | 1,625,552         | 15.28         | 1,370,780         | 13.34         |
| Pulpwood and pulpwood chips                                       | 23,289            | 0.22          | 23,527            | 0.23          |
| Mutilated newsprint                                               | 834               | 0.01          | 1,230             | 0.01          |
| Waste paper, n.e.s.                                               | 2,443             | 0.02          | 3,234             | 0.03          |
| Fabricated materials, inedible                                    | 3,603,442         | 33.86         | 3,573,320         | 34.78         |
| Wood pulp                                                         | 485,453           | 4.56          | 516,879           | 5.03          |
| Newsprint                                                         | 872,544           | 8.20          | 919,877           | 8.96          |
| Paperboard and building board                                     | 9,394             | 0.09          | 10,066            | 0.10          |
| All other paper                                                   | 58,613            | 0.55          | 43,485            | 0.42          |
| End products, inedible                                            | 4,728,779         | 44.44         | 4,700,222         | 45.75         |
| Paper products                                                    | 6,946             | 0.06          | 7,272             | 0.07          |
| Special transactions, trade                                       | 23,357            | 0.22          | 27,413            | 0.27          |
| <b>Total exports</b>                                              | <b>10,641,119</b> | <b>100.00</b> | <b>10,273,650</b> | <b>100.00</b> |
| <b>Total pulp, paper, paper products and pulpwood<sup>1</sup></b> | <b>1,459,516</b>  | <b>13.71</b>  | <b>1,525,570</b>  | <b>14.85</b>  |

1. Details for 1970 are given in Table 11.

Source: Dominion Bureau of Statistics.



## Principal statistics by provinces, 1969

|                                    | Mills      | Employees <sup>1</sup> | Salaries and wages <sup>1</sup> | Cost of fuel and electricity | Cost of materials used | Selling value of factory shipments | Value added by manufacture |
|------------------------------------|------------|------------------------|---------------------------------|------------------------------|------------------------|------------------------------------|----------------------------|
|                                    |            |                        | \$'000                          | \$'000                       | \$'000                 | \$'000                             | \$'000                     |
| Newfoundland                       | 2          | 2,747                  | 24,904                          | 5,872                        | 32,507                 | 74,361                             | 35,041                     |
| Nova Scotia                        | 6          | 2,080                  | 15,964                          | 4,130                        | 34,762                 | 78,561                             | 39,797                     |
| New Brunswick                      | 9          | 4,743                  | 35,563                          | 15,951                       | 99,048                 | 178,355                            | 63,550                     |
| Quebec                             | 56         | 29,159                 | 231,048                         | 78,138                       | 473,158                | 993,924                            | 445,044                    |
| Ontario                            | 36         | 21,503                 | 168,770                         | 48,812                       | 329,669                | 715,966                            | 340,195                    |
| Manitoba, Saskatchewan and Alberta | 9          | 1,627                  | 13,435                          | 5,085                        | 34,081                 | 78,293                             | 37,773                     |
| British Columbia                   | 20         | 13,568                 | 121,907                         | 40,553                       | 311,037                | 651,816                            | 298,011                    |
| <b>Total</b>                       | <b>138</b> | <b>75,427</b>          | <b>611,591</b>                  | <b>198,541</b>               | <b>1,314,262</b>       | <b>2,771,276</b>                   | <b>1,259,411</b>           |

1. Woods employees not included.  
Source: Dominion Bureau of Statistics.

| Canadian consumption of paper and paperboard | Newsprint  | Paperboard | Wrapping paper | Fine paper <sup>1</sup> | Tissue paper | Sanitary paper | Building boards | Building papers | Other paper & boards | Total      |
|----------------------------------------------|------------|------------|----------------|-------------------------|--------------|----------------|-----------------|-----------------|----------------------|------------|
|                                              | Lbs.p.cap. | Lbs.p.cap. | Lbs.p.cap.     | Lbs.p.cap.              | Lbs.p.cap.   | Lbs.p.cap.     | Lbs.p.cap.      | Lbs.p.cap.      | Lbs.p.cap.           | Lbs.p.cap. |
| 1951                                         | 51.4       | 112.5      | 34.8           | 32.2                    | 2.2          | 10.7           | 16.9            | 12.4            | 3.6                  | 276.8      |
| 1952                                         | 51.0       | 100.3      | 29.1           | 27.1                    | 1.6          | 9.5            | 16.0            | 11.7            | 3.0                  | 249.3      |
| 1953                                         | 53.7       | 112.1      | 31.1           | 29.2                    | 1.7          | 10.6           | 18.4            | 12.4            | 3.1                  | 272.2      |
| 1954                                         | 55.1       | 107.7      | 31.5           | 30.4                    | 1.8          | 11.2           | 18.3            | 11.6            | 2.8                  | 270.4      |
| 1955                                         | 54.8       | 112.2      | 31.8           | 31.0                    | 2.4          | 11.7           | 17.0            | 12.9            | 2.9                  | 276.7      |
| 1956                                         | 59.3       | 121.6      | 34.5           | 34.3                    | 2.7          | 12.9           | 22.5            | 12.1            | 2.9                  | 302.8      |
| 1957                                         | 55.0       | 112.7      | 31.8           | 33.1                    | 2.5          | 13.1           | 20.5            | 10.4            | 2.7                  | 281.7      |
| 1958                                         | 50.9       | 119.2      | 31.6           | 32.9                    | 2.5          | 13.7           | 23.7            | 11.0            | 2.3                  | 287.7      |
| 1959                                         | 54.1       | 121.0      | 33.6           | 35.3                    | 2.9          | 14.1           | 24.0            | 10.0            | 2.4                  | 297.3      |
| 1960                                         | 54.5       | 117.2      | 32.8           | 34.9                    | 2.5          | 14.0           | 24.3            | 8.6             | 2.0                  | 290.8      |
| 1961                                         | 53.9       | 115.6      | 31.8           | 35.2                    | 2.3          | 15.2           | 24.4            | 8.2             | 2.3                  | 288.9      |
| 1962                                         | 54.9       | 122.5      | 32.1           | 35.9                    | 2.5          | 15.4           | 22.4            | 9.5             | 2.4                  | 297.6      |
| 1963                                         | 55.2       | 127.2      | 33.6           | 37.6                    | 2.5          | 18.2           | 22.0            | 9.1             | 2.1                  | 307.5      |
| 1964                                         | 57.1       | 137.7      | 34.3           | 40.6                    | 2.6          | 17.1           | 28.2            | 8.8             | 2.2                  | 328.6      |
| 1965                                         | 60.1       | 147.7      | 35.7           | 42.8                    | 2.8          | 16.8           | 26.8            | 7.8             | 2.4                  | 342.9      |
| 1966                                         | 62.0       | 151.7      | 38.8           | 46.6                    | 2.7          | 15.0           | 26.3            | 7.7             | 2.1                  | 352.9      |
| 1967                                         | 62.5       | 151.7      | 36.2           | 51.1                    | 1.9          | 18.7           | 28.9            | 7.6             | 2.3                  | 360.9      |
| 1968                                         | 65.1       | 152.2      | 36.1           | 51.6                    | 2.5          | 21.4           | 36.1            | 7.1             | 3.2                  | 375.3      |
| 1969                                         | 67.4       | 165.0      | 40.2           | 53.4                    | 2.7          | 21.6           | 36.0            | 7.0             | 3.5                  | 396.8      |
| 1970 <sup>2</sup>                            | 65.9       | 149.2      | 34.2           | 59.1                    | 2.8          | 21.5           | 31.8            | 6.2             | 3.3                  | 374.0      |

Note: These figures do not include tonnages imported as converted paper products, such as books, magazines, advertising matter, packages, etc.  
1. Excluding coated paper.

2. Preliminary estimates.

Sources: Dominion Bureau of Statistics and Canadian Pulp and Paper Association.

## Growth rates of the pulp and paper industry, the total economy and selected groups of industries

|              | Real domestic product | Total goods | Total manufacturing | Pulp and paper | Foods and beverages | Textiles | Transportation equipment | Chemicals and allied products | Electrical apparatus and supplies | Construction | Total services |
|--------------|-----------------------|-------------|---------------------|----------------|---------------------|----------|--------------------------|-------------------------------|-----------------------------------|--------------|----------------|
| 1961 weights | 100.0                 | 43.8        | 24.7                | 2.2            | 3.6                 | 0.9      | 2.0                      | 1.7                           | 1.6                               | 5.8          | 56.2           |
| 1950         | 62.4                  | 62.6        | 63.4                | 72.7           | 63.7                | 72.9     | 83.4                     | 40.1                          | 53.5                              | 56.0         | 66.2           |
| 1951         | 67.3                  | 68.6        | 68.9                | 79.4           | 65.9                | 74.5     | 100.8                    | 46.0                          | 57.4                              | 56.5         | 65.8           |
| 1952         | 72.5                  | 74.5        | 71.5                | 76.0           | 70.2                | 67.7     | 115.5                    | 50.2                          | 59.2                              | 64.1         | 70.0           |
| 1953         | 75.5                  | 77.4        | 76.6                | 79.1           | 72.2                | 72.0     | 130.3                    | 55.0                          | 71.7                              | 71.9         | 73.3           |
| 1954         | 74.3                  | 73.9        | 74.9                | 82.2           | 74.8                | 64.9     | 106.7                    | 59.1                          | 72.1                              | 73.7         | 74.7           |
| 1955         | 82.1                  | 83.7        | 82.2                | 85.0           | 77.8                | 77.8     | 114.1                    | 68.1                          | 83.1                              | 81.9         | 80.2           |
| 1956         | 89.1                  | 91.9        | 89.9                | 91.6           | 82.4                | 80.6     | 123.0                    | 79.7                          | 93.9                              | 92.2         | 85.7           |
| 1957         | 89.5                  | 91.0        | 89.7                | 88.7           | 85.7                | 81.3     | 120.4                    | 81.5                          | 87.2                              | 100.2        | 87.7           |
| 1958         | 91.0                  | 92.4        | 88.0                | 86.9           | 89.8                | 78.5     | 105.9                    | 82.3                          | 85.3                              | 103.7        | 89.4           |
| 1959         | 95.7                  | 96.8        | 94.5                | 94.3           | 94.2                | 88.8     | 104.9                    | 90.2                          | 90.6                              | 98.7         | 94.4           |
| 1960         | 98.0                  | 99.0        | 96.1                | 100.0          | 96.1                | 91.5     | 101.4                    | 94.1                          | 94.0                              | 97.0         | 96.6           |
| 1961         | 100.0                 | 100.0       | 100.0               | 100.0          | 100.0               | 100.0    | 100.0                    | 100.0                         | 100.0                             | 100.0        | 100.0          |
| 1962         | 106.2                 | 109.3       | 109.0               | 97.8           | 106.4               | 111.2    | 115.9                    | 109.1                         | 119.4                             | 105.6        | 105.1          |
| 1963         | 111.6                 | 116.1       | 116.2               | 101.6          | 110.5               | 120.7    | 133.1                    | 115.6                         | 130.5                             | 107.1        | 110.0          |
| 1964         | 120.2                 | 124.8       | 127.4               | 110.1          | 117.8               | 133.3    | 145.8                    | 133.0                         | 146.4                             | 117.4        | 116.9          |
| 1965         | 129.0                 | 134.8       | 138.8               | 112.8          | 123.1               | 139.0    | 179.6                    | 144.9                         | 162.9                             | 131.6        | 124.4          |
| 1966         | 137.6                 | 144.9       | 148.7               | 120.1          | 128.9               | 141.1    | 196.9                    | 157.5                         | 185.3                             | 141.7        | 132.5          |
| 1967         | 143.5                 | 145.5       | 152.3               | 113.6          | 136.0               | 146.2    | 228.6                    | 163.9                         | 187.9                             | 141.2        | 140.0          |
| 1968         | 150.5                 | 154.0       | 161.1               | 120.5          | 139.5               | 153.5    | 257.1                    | 175.2                         | 194.6                             | 150.6        | 145.6          |
| 1969         | 157.4                 | 160.2       | 168.4               | 129.9          | 142.6               | 166.1    | 278.1                    | 186.1                         | 210.1                             | 154.2        | 153.1          |
| 1970         | 160.7                 | 161.9       | 167.3               | 125.4          | 148.3               | 161.0    | 245.4                    | 193.0                         | 198.7                             | 149.8        | 159.8          |

Source: Dominion Bureau of Statistics. Compiled from "Indexes of Real Domestic Product by industry—(1961 base)", prepared in National Output and Productivity Division, Industrial Output Section.



| Employees and wages | Total employees | Total salaries & wages |
|---------------------|-----------------|------------------------|
|                     |                 | \$'000                 |
| 1951                | 57,291          | 213,170                |
| 1952                | 57,803          | 225,353                |
| 1953                | 58,194          | 235,742                |
| 1954                | 60,837          | 252,598                |
| 1955                | 62,205          | 265,298                |
| 1956                | 65,985          | 297,572                |
| 1957 <sup>1</sup>   | 66,067          | 307,990                |
| 1958 <sup>1</sup>   | 64,199          | 307,872                |
| 1959 <sup>1</sup>   | 65,162          | 322,936                |
| 1960 <sup>1</sup>   | 65,772          | 345,093                |
| 1961 <sup>1</sup>   | 65,799          | 355,171                |
| 1962 <sup>1</sup>   | 64,885          | 355,245                |
| 1963 <sup>1</sup>   | 65,049          | 364,513                |
| 1964 <sup>1</sup>   | 67,729          | 394,136                |
| 1965 <sup>1</sup>   | 69,897          | 423,732                |
| 1966 <sup>1</sup>   | 73,501          | 486,249                |
| 1967 <sup>1</sup>   | 74,136          | 516,724                |
| 1968 <sup>1</sup>   | 73,498          | 552,162                |
| 1969 <sup>1</sup>   | 75,427          | 611,591                |
| 1970 <sup>1,2</sup> | 75,169          | 633,896                |

Note: Woods employees not included.

1. See footnote 2, table 50.

2. Canadian Pulp and Paper Association estimates.

Source: Dominion Bureau of Statistics.

| Capital and employees | Capital employed | Employees <sup>2</sup> | Capital employed per employee |
|-----------------------|------------------|------------------------|-------------------------------|
|                       | \$'000           |                        | \$'000                        |
| 1951                  | 1,547,826        | 57,291                 | 27,013                        |
| 1952                  | 1,707,042        | 57,803                 | 29,532                        |
| 1953                  | 1,821,501        | 58,194                 | 31,300                        |
| 1954                  | 1,899,438        | 60,837                 | 31,222                        |
| 1955                  | 2,036,354        | 62,205                 | 32,736                        |
| 1956                  | 2,315,309        | 65,985                 | 35,088                        |
| 1957                  | 2,615,014        | 66,067                 | 39,279                        |
| 1958                  | 2,841,489        | 64,199                 | 44,103                        |
| 1959                  | 2,966,011        | 65,162                 | 45,517                        |
| 1960                  | 3,134,693        | 65,772                 | 47,658                        |
| 1961                  | 3,275,064        | 65,799                 | 49,774                        |
| 1962                  | 3,398,217        | 64,885                 | 52,371                        |
| 1963                  | 3,618,006        | 65,049                 | 55,620                        |
| 1964                  | 3,965,226        | 67,729                 | 58,545                        |
| 1965                  | 4,576,329        | 69,897                 | 65,471                        |
| 1966                  | 5,186,020        | 73,501                 | 70,557                        |
| 1967                  | 5,538,350        | 74,136                 | 74,704                        |
| 1968                  | 5,807,786        | 73,498                 | 78,881                        |
| 1969                  | 6,256,638        | 75,427                 | 82,950                        |
| 1970 <sup>1</sup>     | 6,876,952        | 75,169                 | 91,486                        |

1. Preliminary.

2. Woods employees not included.

Source: Canadian Pulp and Paper Association estimates based on data compiled by the Dominion Bureau of Statistics, Business Finance Division, on "Fixed Capital Flows and Stocks, Manufacturing, Canada 1926-1960" and supplements. Estimates for years prior to 1968 revised on the basis of revision of building and engineering construction price indexes.

| Payrolls and weekly earnings in important industries | Year | Average number of employees | Average weekly payrolls | Average weekly earnings |
|------------------------------------------------------|------|-----------------------------|-------------------------|-------------------------|
|                                                      |      |                             | \$                      | \$                      |
| Pulp and paper mills                                 | 1969 | 75,018                      | 11,490,737              | 153.17                  |
|                                                      | 1970 | 75,169                      | 12,190,313              | 162.17                  |
| Electrical products                                  | 1969 | 129,271                     | 16,201,916              | 125.33                  |
|                                                      | 1970 | 124,180                     | 16,713,891              | 134.59                  |
| Motor vehicles                                       | 1969 | 90,513                      | 13,419,663              | 148.26                  |
|                                                      | 1970 | 82,020                      | 13,218,805              | 161.16                  |
| Chemical products                                    | 1969 | 71,759                      | 9,991,139               | 139.23                  |
|                                                      | 1970 | 71,853                      | 10,775,618              | 149.97                  |
| Smelting and refining                                | 1969 | 31,673                      | 4,769,517               | 150.59                  |
|                                                      | 1970 | 35,099                      | 5,682,666               | 161.90                  |
| Aircraft and parts                                   | 1969 | 34,349                      | 5,196,858               | 151.29                  |
|                                                      | 1970 | 30,657                      | 4,851,103               | 158.24                  |
| Iron and steel mills                                 | 1969 | 43,511                      | 6,436,912               | 147.94                  |
|                                                      | 1970 | 47,454                      | 7,774,185               | 163.82                  |
| Slaughtering and meat processing                     | 1969 | 27,706                      | 3,456,195               | 124.74                  |
|                                                      | 1970 | 27,785                      | 3,793,941               | 136.54                  |
| Rubber products                                      | 1969 | 26,782                      | 3,426,986               | 127.96                  |
|                                                      | 1970 | 24,290                      | 3,326,519               | 136.95                  |
| Shipbuilding and repairing                           | 1969 | 15,514                      | 2,088,142               | 134.59                  |
|                                                      | 1970 | 13,341                      | 1,915,416               | 143.57                  |

Note: Compiled from monthly returns received from establishments employing 15 persons or more. Pulp and paper mills payrolls do not include woods workers.  
Source: Dominion Bureau of Statistics, Employment Section.

| Operations and mills 1970                            | Producing companies | Producing mills |
|------------------------------------------------------|---------------------|-----------------|
| Groundwood                                           | 28                  | 56              |
| Mechanical screenings                                | 7                   | 8               |
| Dissolving and special alpha (sulphite and sulphate) | 2                   | 4               |
| Bleached sulphite (paper pulp)                       | 9                   | 11              |
| Unbleached sulphite (strong)                         | 8                   | 9               |
| Unbleached sulphite (news grade)                     | 14                  | 29              |
| Sulphate pulp, bleached and semi-bleached            | 26                  | 32              |
| Sulphate unbleached                                  | 18                  | 25              |
| Chemical screenings                                  | 9                   | 16              |
| Semi-chemical pulp                                   | 7                   | 13              |
| Defibrated and exploded pulps                        | 5                   | 7               |
| Newsprint                                            | 22                  | 44              |
| Groundwood and specialty papers                      | 7                   | 11              |
| Book paper                                           | 6                   | 15              |
| Fine papers                                          | 8                   | 15              |
| Miscellaneous fine papers                            | 5                   | 10              |
| Tissue paper other than sanitary                     | 7                   | 8               |
| Sanitary papers                                      | 8                   | 11              |
| Special industrial papers                            | 3                   | 6               |
| Wrapping papers                                      | 14                  | 20              |
| Building papers                                      | 10                  | 14              |
| Paperboards                                          | 22                  | 45              |
| Building boards                                      | 8                   | 12              |
| Wet machine boards                                   | 3                   | 3               |
| Paper products                                       | 13                  | 22              |

Sources: Canadian Pulp and Paper Association and Dominion Bureau of Statistics.

| Principal statistics of the paper converting industries | 1969      | 1968    |
|---------------------------------------------------------|-----------|---------|
| Number of establishments                                | 502       | 498     |
| Number of employees                                     | 40,766    | 40,078  |
|                                                         | \$'000    | \$'000  |
| Salaries and wages paid                                 | 256,663   | 229,409 |
| Cost of fuel and electricity                            | 9,655     | 8,658   |
| Cost of materials used                                  | 606,375   | 570,813 |
| Selling value of factory shipments                      | 1,062,538 | 975,141 |
| Value added by manufacture                              | 477,055   | 416,701 |

Note: These figures cover only converted paper products produced in the Folding Boxes and Set-up Boxes, Corrugated Boxes, Paper Bag, Miscellaneous Paper, and Asphalt Roofing industries. In addition, some 20 paper-mills have converting plants whose operations are included in the Pulp and Paper industry, and there are also several plants in the Printing Trades and other industries which make paper boxes and other converted paper commodities as secondary products.  
Source: Dominion Bureau of Statistics.



| Car loadings                                                                                                                            | 1970      | 1970        | 1969      | 1969        |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|-----------|-------------|
|                                                                                                                                         | Cars      | Tons        | Cars      | Tons        |
| Forest Products                                                                                                                         | 757,148   | 32,094,304  | 806,922   | 33,121,648  |
| <i>Pulp and paper</i>                                                                                                                   | 278,563   | 12,078,301  | 304,189   | 12,492,187  |
| <i>Pulpwood (roundwood and chips)</i>                                                                                                   | 176,936   | 8,263,418   | 179,268   | 8,556,895   |
| <i>Other forest products</i>                                                                                                            | 301,649   | 11,752,585  | 323,465   | 12,072,566  |
| Agricultural Products                                                                                                                   | 540,469   | 28,329,119  | 415,771   | 20,613,444  |
| <i>Wheat and other grain</i>                                                                                                            | 429,985   | 24,508,703  | 297,433   | 16,630,412  |
| <i>Grain products</i>                                                                                                                   | 59,028    | 2,021,049   | 60,840    | 2,025,236   |
| <i>Other agricultural products, fresh and frozen</i>                                                                                    | 51,456    | 1,799,367   | 57,498    | 1,957,796   |
| Animal Products                                                                                                                         | 36,032    | 686,606     | 39,591    | 712,546     |
| Mineral Products                                                                                                                        | 1,906,114 | 131,719,486 | 1,723,423 | 113,699,663 |
| <i>Coal and coke</i>                                                                                                                    | 173,503   | 11,576,009  | 133,873   | 8,125,580   |
| <i>Potash, sulphur, crude gypsum and asbestos, phosphate and salt</i>                                                                   | 192,512   | 15,214,812  | 187,446   | 14,816,766  |
| <i>Sand, gravel, crushed stone, natural and portland cement, and other mine products</i>                                                | 191,972   | 13,043,407  | 179,512   | 12,060,734  |
| <i>Iron and non-ferrous ores and concentrates</i>                                                                                       | 760,421   | 64,027,588  | 605,955   | 50,743,435  |
| <i>Gasoline, fuel oil, liquified petroleum gas and other refined petroleum products</i>                                                 | 222,093   | 11,018,741  | 220,068   | 10,466,501  |
| <i>Sulphuric acid, salt cake, gases other than petroleum, and other chemicals and acids</i>                                             | 74,275    | 4,699,115   | 74,843    | 4,738,889   |
| <i>Primary and manufactured iron and steel and non-ferrous metals and scrap, and waste metals</i>                                       | 172,471   | 9,525,336   | 175,764   | 9,608,186   |
| <i>Passenger and freight automobiles and other motor vehicles and parts, agricultural implements and parts and machinery and parts,</i> | 118,867   | 2,614,478   | 145,962   | 3,139,572   |
| Other Products                                                                                                                          | 299,392   | 9,583,242   | 320,708   | 10,325,893  |
| <i>Building materials</i>                                                                                                               | 40,559    | 1,423,086   | 43,237    | 1,585,325   |
| <i>Sugar, beverages, vegetable oils, dairy and other food products</i>                                                                  | 75,348    | 2,546,694   | 77,886    | 2,546,277   |
| <i>Animal and poultry feed</i>                                                                                                          | 21,102    | 774,475     | 21,203    | 739,168     |
| <i>Plastic and cellulose products</i>                                                                                                   | 8,499     | 176,344     | 8,647     | 166,233     |
| <i>Fertilizers (excluding potash)</i>                                                                                                   | 32,365    | 1,761,141   | 36,709    | 1,960,148   |
| <i>Manufactured and miscellaneous goods</i>                                                                                             | 121,519   | 2,901,502   | 132,926   | 3,328,722   |
| Pool car traffic (freight forwarder and shipper association traffic)                                                                    | 78,945    | 1,219,910   | 81,080    | 1,128,125   |
| Container and trailer-on-flat-car traffic ("piggyback")                                                                                 | 111,675   | 2,280,178   | 114,214   | 2,146,989   |
| Total carload traffic loaded                                                                                                            | 3,729,775 | 205,912,845 | 3,501,709 | 181,748,308 |
| Non-carload (l.c.l., express, etc.) traffic loaded                                                                                      |           | 1,281,050   |           | 1,521,473   |
| Receipts from United States connections                                                                                                 | 662,502   | 28,671,128  | 665,882   | 28,188,331  |
| Total traffic carried (excluding duplications)                                                                                          |           | 235,865,023 |           | 211,458,112 |

Source: Compiled by C.P.P.A. from D.B.S. "Railway carloadings" report.

| Summary of shipments of goods of own manufacture | Wood pulp | Newsprint | Other basic paper and paperboard | Building boards <sup>1</sup> | Converted paper products <sup>2</sup> | Other products <sup>3</sup> | By-products <sup>4</sup> | Amount received for work done <sup>5</sup> | Total value of shipments & work done <sup>6</sup> |
|--------------------------------------------------|-----------|-----------|----------------------------------|------------------------------|---------------------------------------|-----------------------------|--------------------------|--------------------------------------------|---------------------------------------------------|
|                                                  | \$'000    | \$'000    | \$'000                           | \$'000                       | \$'000                                | \$'000                      | \$'000                   | \$'000                                     | \$,000                                            |
| 1956                                             | 366,819   | 734,426   | 288,409                          | 25,582                       | 32,217                                | 1,413                       | 2,624                    | 1,952                                      | 1,453,442                                         |
| 1957                                             | 334,962   | 724,613   | 286,061                          | 25,275                       | 35,074                                | 1,360                       | 2,557                    | 2,032                                      | 1,411,934                                         |
| 1958                                             | 325,587   | 694,067   | 300,520                          | 27,081                       | 41,162                                | 1,901                       | 2,609                    | 1,752                                      | 1,394,679                                         |
| 1959                                             | 360,294   | 732,849   | 323,363                          | 30,849                       | 44,310                                | 1,433                       | 3,176                    | 1,768                                      | 1,498,042                                         |
| 1960                                             | 368,598   | 793,470   | 334,401                          | 28,846                       | 47,492                                | 1,028                       | 2,923                    | 1,969                                      | 1,578,727                                         |
| 1961                                             | 392,655   | 804,641   | 352,964                          | 29,237                       | 48,684                                | 1,343                       | 6,409                    | 2,049                                      | 1,637,982                                         |
| 1962                                             | 436,920   | 819,079   | 371,419                          | 33,218                       | 52,626                                | 5,910                       | 8,270                    | 1,840                                      | 1,729,282                                         |
| 1963                                             | 479,040   | 809,247   | 401,667                          | 34,598                       | 54,708                                | 7,418                       | 10,175                   | 1,548                                      | 1,789,401                                         |
| 1964                                             | 548,505   | 887,612   | 431,398                          | 37,405                       | 54,351                                | 17,262                      | 11,168                   | 2,173                                      | 1,989,874                                         |
| 1965                                             | 592,238   | 927,832   | 462,078                          | 39,119                       | 56,248                                | 20,676                      | 12,417                   | 2,188                                      | 2,112,796                                         |
| 1966                                             | 630,154   | 1,025,048 | 519,528                          | 35,257                       | 57,449                                | 22,112                      | 13,714                   | 3,175                                      | 2,306,436                                         |
| 1967                                             | 630,604   | 998,020   | 544,706                          | 36,604                       | 60,971                                | 23,667                      | 13,800                   | 1,401                                      | 2,309,773                                         |
| 1968                                             | 719,397   | 1,015,794 | 558,821                          | 41,430                       | 76,768                                | 37,258                      | 15,560                   | 1,115                                      | 2,466,143                                         |
| 1969                                             | 862,098   | 1,114,707 | 618,444                          | 48,263                       | 91,270                                | 37,635                      | 18,649                   | 296                                        | 2,791,362                                         |

1. Rigid insulating (homogeneous or laminated) softboard for all purposes and all types of hardboard, as reported by establishments classified as pulp and paper mills.
2. Such as packaged toilet paper, paper towels and napkins, paper bags, gummed tape, etc.
3. Not made from wood pulp, paper or paperboard.
4. Such as newsprint and kraft side-runs, vanillin, acid liquors, steam sold, etc.
5. On materials and products owned by others.
6. Unadjusted value of shipments and work done, representing the sum of the items shown.

Since 1957 questions covering value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items, as required, have been added to Census of Industry questionnaires; the answers have resulted in the adjusted values shown in Table 50 (q.v.) and elsewhere. The unadjusted values are more comparable to the values shown for production prior to 1956, which obviously comprised similar undeducted taxes, duties and charges.

Source: Dominion Bureau of Statistics.

#### Price indices for selected commodities

|      | 1961 = 100                                   |                                        |                                      |                                      |                                        |                                     |
|------|----------------------------------------------|----------------------------------------|--------------------------------------|--------------------------------------|----------------------------------------|-------------------------------------|
|      | Fine paper writing & reproduction (domestic) | Container board liner board (domestic) | Bleached sulphite wood pulp (export) | Bleached sulphate wood pulp (export) | Unbleached sulphate wood pulp (export) | Newsprint (white) in rolls (export) |
| 1956 | 89.3                                         | 100.6                                  | 112.0                                | 104.5                                | 103.2                                  | 95.4                                |
| 1961 | 100.0                                        | 100.0                                  | 100.0                                | 100.0                                | 100.0                                  | 100.0                               |
| 1962 | 100.0                                        | 100.0                                  | 103.0                                | 101.4                                | 101.5                                  | 105.9                               |
| 1963 | 100.7                                        | 100.1                                  | 102.4                                | 101.0                                | 106.0                                  | 107.0                               |
| 1964 | 103.2                                        | 101.0                                  | 108.2                                | 106.2                                | 114.3                                  | 106.8                               |
| 1965 | 104.1                                        | 101.0                                  | 112.2                                | 111.1                                | 113.9                                  | 106.7                               |
| 1966 | 108.8                                        | 100.4                                  | 112.1                                | 109.1                                | 114.6                                  | 109.4                               |
| 1967 | 114.5                                        | 101.2                                  | 112.2                                | 108.0                                | 115.3                                  | 112.7                               |
| 1968 | 113.0                                        | 101.5                                  | 111.5                                | 103.7                                | 112.0                                  | 113.4                               |
| 1969 | 117.8                                        | 103.0                                  | 114.3                                | 109.6                                | 115.7                                  | 117.2                               |
| 1970 | 120.2                                        | 103.9                                  | 125.4                                | 119.7                                | 131.9                                  | 116.8                               |

Source: Dominion Bureau of Statistics.



## VII. World Figures

68

### World production and consumption of wood pulp

|                                                         | Production<br>1950 | Production<br>1960 | Production<br>1969 | Consumption<br>1950 | Consumption<br>1960 | Consumption<br>1969 |
|---------------------------------------------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|
|                                                         | '000 Tons          | '000 Tons          | '000 Tons          | '000 Tons           | '000 Tons           | '000 Tons           |
| North America                                           | 23,322             | 36,747             | 59,075             | 23,801              | 35,473              | 55,256              |
| <i>Canada</i>                                           | 8,473              | 11,431             | 18,084             | 6,663               | 8,918               | 12,328              |
| <i>United States</i>                                    | 14,849             | 25,316             | 40,991             | 17,138              | 26,555              | 42,928              |
| Western Europe                                          | 9,876              | 17,242             | 26,874             | 8,920               | 17,481              | 28,571              |
| <i>Austria</i>                                          | 421                | 777                | 982                | 301                 | 585                 | 904                 |
| <i>Belgium</i>                                          | 86                 | 170                | 369                | 256                 | 333                 | 654                 |
| <i>Denmark</i>                                          | 1                  | 6                  | 96                 | 82                  | 123                 | 149                 |
| <i>Finland</i>                                          | 2,109              | 4,078              | 6,942              | 945                 | 2,329               | 4,520               |
| <i>France</i>                                           | 551                | 1,254              | 1,892              | 1,082               | 1,981               | 3,086               |
| <i>Germany (West)</i>                                   | 1,008              | 1,584              | 1,843              | 1,250               | 2,334               | 3,458               |
| <i>Greece</i>                                           | 1                  | 1                  | 1                  | 32                  | 62                  | 103                 |
| <i>Ireland</i>                                          | 1                  | 24                 | 39                 | 24                  | 53                  | 69                  |
| <i>Italy</i>                                            | 287                | 497                | 1,051              | 547                 | 1,186               | 2,578               |
| <i>Netherlands</i>                                      | 100                | 137                | 263                | 263                 | 543                 | 1,058               |
| <i>Norway</i>                                           | 1,183              | 1,814              | 2,460              | 603                 | 981                 | 1,600               |
| <i>Portugal</i>                                         | 7                  | 94                 | 423                | 20                  | 102                 | 126                 |
| <i>Spain</i>                                            | 28                 | 166                | 579                | 91                  | 280                 | 899                 |
| <i>Sweden</i>                                           | 3,801              | 6,173              | 9,185              | 1,497               | 2,954               | 5,136               |
| <i>Switzerland</i>                                      | 157                | 262                | 284                | 187                 | 370                 | 482                 |
| <i>United Kingdom</i>                                   | 137                | 206                | 466                | 1,740               | 3,265               | 3,749               |
| Latin America (except Cuba)                             | 264                | 845                | 1,570              | 582                 | 1,178               | 2,057               |
| <i>Argentina</i>                                        | 17 <sup>2</sup>    | 48                 | 174                | 98                  | 137                 | 356                 |
| <i>Brazil</i>                                           | 153 <sup>2</sup>   | 498                | 589                | 298                 | 605                 | 631                 |
| <i>Chile</i>                                            | 17                 | 112                | 384                | 42                  | 127                 | 268                 |
| <i>Colombia</i>                                         | 1                  | 1                  | 109                | 3                   | 31                  | 169                 |
| <i>Mexico</i>                                           | 77                 | 187                | 314                | 133                 | 241                 | 455                 |
| <i>Peru</i>                                             | 1                  | 1                  | 1                  | 1                   | 3                   | 29                  |
| <i>Uruguay</i>                                          | 1                  | 1                  | 1                  | 1                   | 3                   | 11                  |
| <i>Venezuela</i>                                        | 1                  | 1                  | 1                  | 8                   | 37                  | 138                 |
| Africa, Middle East, other Asia (except China), Oceania | 1,004              | 4,863              | 10,870             | 1,140               | 5,167               | 12,179              |
| <i>Morocco</i>                                          | 1                  | 1                  | 45                 | 1                   | 3                   | 22                  |
| <i>Republic of South Africa</i>                         | 36                 | 262                | 716                | 38                  | 190                 | 477                 |
| <i>Swaziland</i>                                        | 3                  | 3                  | 108                | 3                   | 3                   | 5                   |
| <i>United Arab Republic, Egypt</i>                      | 1                  | 1                  | 1                  | 6                   | 32                  | 40                  |
| <i>Israel</i>                                           | 1                  | 1                  | 1                  | 1                   | 3                   | 57                  |
| <i>Turkey</i>                                           | 13                 | 46                 | 87                 | 17                  | 55                  | 99                  |
| <i>India</i>                                            | 1                  | 20                 | 30                 | 9                   | 108                 | 128                 |
| <i>Japan</i>                                            | 825                | 3,884              | 8,465              | 894                 | 4,014               | 9,396               |
| <i>Korea</i>                                            | 1                  | 1                  | 72                 | 1                   | 3                   | 263                 |
| <i>Pakistan</i>                                         | 1                  | 26                 | 71                 | 1                   | 29                  | 92                  |
| <i>Philippines</i>                                      | 1                  | 1                  | 1                  | 1                   | 3                   | 34                  |
| <i>South Viet Nam</i>                                   | 1                  | 1                  | 1                  | 1                   | 3                   | 13                  |
| <i>Taiwan</i>                                           | 1                  | 16                 | 84                 | 1                   | 28                  | 118                 |
| <i>Australia</i>                                        | 103                | 315                | 573                | 139                 | 481                 | 843                 |
| <i>New Zealand</i>                                      | 27                 | 294                | 619                | 37                  | 230                 | 545                 |
| <i>All others</i>                                       | 1                  | 1                  | 1                  | 1                   | 3                   | 57                  |
| <b>Sub total</b>                                        | <b>34,466</b>      | <b>59,697</b>      | <b>98,389</b>      | <b>34,443</b>       | <b>59,299</b>       | <b>98,063</b>       |
| Other countries <sup>2</sup>                            |                    |                    |                    |                     |                     |                     |
| <i>Bulgaria</i>                                         | 6                  | 3                  | 104                | 45                  | 3                   | 170                 |
| <i>China</i>                                            | 3                  | 3                  | 540                | 25                  | 3                   | 690                 |
| <i>Cuba</i>                                             | 1                  | 1                  | 1                  | 22                  | 3                   | 50                  |
| <i>Czechoslovakia</i>                                   | 386                | 3                  | 724                | 342                 | 3                   | 770                 |
| <i>Germany (East)</i>                                   | 607                | 3                  | 736                | 596                 | 3                   | 890                 |
| <i>Hungary</i>                                          | 7                  | 3                  | 83                 | 29                  | 3                   | 163                 |
| <i>Poland</i>                                           | 275                | 3                  | 762                | 350                 | 3                   | 824                 |
| <i>Romania</i>                                          | 110                | 3                  | 479                | 98                  | 3                   | 482                 |
| <i>U.S.S.R.</i>                                         | 2,255              | 3                  | 6,830              | 2,348               | 3                   | 6,679               |
| <i>Yugoslavia</i>                                       | 50                 | 230                | 557                | 55                  | 216                 | 558                 |
| <b>Sub total</b>                                        | <b>3,696</b>       | <b>6,930</b>       | <b>10,815</b>      | <b>3,910</b>        | <b>6,763</b>        | <b>11,276</b>       |
| <b>Total</b>                                            | <b>38,162</b>      | <b>66,627</b>      | <b>109,204</b>     | <b>38,353</b>       | <b>66,062</b>       | <b>109,339</b>      |

1. Nil.  
 2. Estimated.  
 3. Not available.  
 Sources: Canadian Pulp and Paper Association and American Paper Institute — Pulp Division.



69

| World production of wood pulp, by grades                             | 1950                      | 1960          | 1969           |
|----------------------------------------------------------------------|---------------------------|---------------|----------------|
|                                                                      | '000 Tons                 | '000 Tons     | '000 Tons      |
| <b>America, Western Europe, Asia (except China), Africa, Oceania</b> | <b>34,466<sup>2</sup></b> | <b>59,697</b> | <b>98,389</b>  |
| Chemical wood pulp                                                   | 20,841                    | 37,962        | 65,619         |
| <i>Dissolving and special alpha</i>                                  | 1,756                     | 3,447         | 4,473          |
| <i>Sulphite</i>                                                      | 7,737                     | 10,340        | 10,962         |
| <i>Sulphate</i>                                                      | 10,642                    | 23,566        | 49,920         |
| <i>Soda</i>                                                          | 350 <sup>1</sup>          | 609           | 264            |
| Semi-chemical wood pulp                                              | 1,331 <sup>1</sup>        | 2,736         | 6,260          |
| Mechanical wood pulp                                                 | 12,227                    | 18,828        | 26,141         |
| Screenings                                                           | n.a.                      | 171           | 369            |
| <b>Eastern Europe, U.S.S.R. and China</b>                            | <b>3,696</b>              | <b>6,930</b>  | <b>10,815</b>  |
| Chemical wood pulp                                                   | 2,245                     | 4,684         | 8,110          |
| Other grades                                                         | 1,451                     | 2,246         | 2,705          |
| <b>World</b>                                                         | <b>38,162</b>             | <b>66,627</b> | <b>109,204</b> |
| Chemical wood pulp                                                   | 23,086                    | 42,646        | 73,729         |
| Other Grades                                                         | 15,076                    | 23,981        | 35,475         |

1. Estimated.

2. The sum of the figures shown for 1950 for the various grades of chemical wood pulp does not equal the total figure of 20,841,000 tons because some countries did not provide a breakdown of grades at that time.

Sources: Canadian Pulp and Paper Association and American Paper Institute — Pulp Division

71

| World exports of wood pulp, by countries    | 1950         | 1960          | 1969            |
|---------------------------------------------|--------------|---------------|-----------------|
|                                             | '000 Tons    | '000 Tons     | '000 Tons       |
| <b>North America</b>                        |              |               |                 |
| <i>Canada</i>                               | 1,846        | 2,576         | 5,794           |
| <i>United States</i>                        | 96           | 1,142         | 2,104           |
| <b>Western Europe</b>                       |              |               |                 |
| <i>Austria</i>                              | 115          | 224           | 160             |
| <i>Belgium</i>                              | 4            | 7             | 110             |
| <i>Denmark</i>                              | 1            | 1             | 74              |
| <i>Finland</i>                              | 1,142        | 1,749         | 2,422           |
| <i>France</i>                               | 2            | 63            | 160             |
| <i>Germany (West)</i>                       | 60           | 100           | 93              |
| <i>Ireland</i>                              | 1            | 1             | 7               |
| <i>Italy</i>                                | 1            | 4             | 3               |
| <i>Netherlands</i>                          | 2            | 1             | 12              |
| <i>Norway</i>                               | 602          | 881           | 1,055           |
| <i>Portugal</i>                             | 2            | 48            | 334             |
| <i>Spain</i>                                | 2            | 1             | 22              |
| <i>Sweden</i>                               | 2,306        | 3,230         | 4,063           |
| <i>Switzerland</i>                          | 15           | 22            | 16              |
| <b>Latin America</b>                        |              |               |                 |
| <i>Brazil</i>                               | 1            | 3             | 19              |
| <i>Chile</i>                                | 1            | 15            | 121             |
| <b>Africa, Asia (except China), Oceania</b> |              |               |                 |
| <i>Morocco</i>                              | 1            | 1             | 41              |
| <i>Republic of South Africa</i>             | 1            | 82            | 284             |
| <i>Swaziland</i>                            | 5            | 5             | 113             |
| <i>Japan</i>                                | 1            | 22            | 13              |
| <i>Australia</i>                            | 1            | 1             | 1               |
| <i>New Zealand</i>                          | 1            | 78            | 88              |
| <b>Sub total</b>                            | <b>6,191</b> | <b>10,244</b> | <b>17,109</b>   |
| <b>Other countries</b>                      |              |               |                 |
| <i>Bulgaria</i>                             | 1            | 1             | 23 <sup>4</sup> |
| <i>Czechoslovakia</i>                       | 39           | 49            | 45 <sup>4</sup> |
| <i>Germany (East)</i>                       | 2            | 2             | 2               |
| <i>Hungary</i>                              | 1            | 1             | 17 <sup>4</sup> |
| <i>Romania</i>                              | 2            | 2             | 46 <sup>4</sup> |
| <i>Poland</i>                               | 2            | 3             | 8 <sup>4</sup>  |
| <i>U.S.S.R.</i>                             | 75           | 269           | 426             |
| <i>Yugoslavia</i>                           | 1            | 43            | 68              |
| <b>Sub total</b>                            | <b>114</b>   | <b>364</b>    | <b>613</b>      |
| <b>Total</b>                                | <b>6,305</b> | <b>10,608</b> | <b>17,722</b>   |

1. Nil.

2. Not available.

3. Negligible amount.

4. Estimated.

5. With Republic of South Africa.

Sources: Canadian Pulp and Paper Association and American Paper Institute — Pulp Division, except some estimates for Other Countries based on F.A.O. data.

70

| World forestry data | Area of productive forest <sup>1</sup><br>1963 | Growing stock conifers <sup>2</sup><br>1963 | Growing stock non-conifers <sup>2</sup><br>1963 | Roundwood production <sup>3</sup> average<br>1965-68<br>industrial | Roundwood production <sup>3</sup> average<br>1965-68<br>fuelwood |
|---------------------|------------------------------------------------|---------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|
|                     | acres                                          | billion cu.ft.                              | billion cu.ft.                                  | '000,000 cu.ft.                                                    | '000,000 cu.ft.                                                  |
| Canada              | 554                                            | 671                                         | 176                                             | 3,678                                                              | 187                                                              |
| United States       | 474                                            | 494                                         | 212                                             | 10,587                                                             | 934                                                              |
| Central America     | 126                                            | 7                                           | 21                                              | 326                                                                | 1,156                                                            |
| South America       | 741                                            | 18                                          | 2,720                                           | 1,228                                                              | 6,714                                                            |
| Africa              | 692                                            | 4                                           | 131                                             | 1,090                                                              | 7,314                                                            |
| Europe              | 299                                            | 268                                         | 152                                             | 8,430                                                              | 2,759                                                            |
| U.S.S.R.            | 1,730                                          | 2,331                                       | 459                                             | 9,905                                                              | 3,467                                                            |
| Asia                | 815                                            | 212                                         | 388                                             | 4,866                                                              | 8,714                                                            |
| Pacific Area        | 119                                            | 14                                          | 120                                             | 653                                                                | 288                                                              |
| <b>Total</b>        | <b>5,550</b>                                   | <b>4,019</b>                                | <b>4,379</b>                                    | <b>40,763</b>                                                      | <b>31,533</b>                                                    |

1. Excludes unstocked and unclassified forest lands and protection forests.

2. Covers 55% forest area. Covers most of the coniferous but only a small part of the non-coniferous forest area. Includes bark.

3. Does not include bark.

Source: FAO Yearbooks of Forest Products Statistics, 1967, 1968 and 1969, as reported by Forestry Economics Research Institute, Department of Fisheries and Forestry.

| World production and consumption of newsprint           | Production<br>1950 | Production<br>1960 | Production<br>1969 | Consumption<br>1950 | Consumption<br>1960 | Consumption<br>1969 |
|---------------------------------------------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|
|                                                         | '000 Tons          | '000 Tons          | '000 Tons          | '000 Tons           | '000 Tons           | '000 Tons           |
| North America                                           | 6,293              | 8,777              | 11,990             | 6,285               | 7,867               | 10,534              |
| <i>Canada</i>                                           | 5,279              | 6,739              | 8,758              | 355                 | 487                 | 708                 |
| <i>United States</i>                                    | 1,015              | 2,038              | 3,232              | 5,930               | 7,379               | 9,826               |
| Western Europe                                          | 2,533              | 4,133              | 5,556              | 1,890               | 4,013               | 5,537               |
| <i>Austria</i>                                          | 79                 | 152                | 178                | 30                  | 52                  | 85                  |
| <i>Belgium and Luxembourg</i>                           | 68                 | 104                | 92                 | 86                  | 131                 | 190                 |
| <i>Denmark</i>                                          | 1                  | 1                  | 1                  | 60                  | 98                  | 146                 |
| <i>Finland</i>                                          | 460                | 744                | 1,212              | 40                  | 87                  | 106                 |
| <i>France</i>                                           | 327                | 485                | 472                | 312                 | 548                 | 627                 |
| <i>Greece</i>                                           | 1                  | 1                  | 1                  | 16                  | 24                  | 26                  |
| <i>Germany (West)</i>                                   | 187                | 254                | 361                | 230                 | 588                 | 1,125               |
| <i>Ireland</i>                                          | 1                  | 5                  | 6                  | 29                  | 39                  | 59                  |
| <i>Italy</i>                                            | 95                 | 325                | 335                | 97                  | 331                 | 275                 |
| <i>Netherlands</i>                                      | 95                 | 160                | 195                | 79                  | 190                 | 366                 |
| <i>Norway</i>                                           | 175                | 247                | 563                | 30                  | 53                  | 79                  |
| <i>Portugal</i>                                         | 3                  | 18                 | 3                  | 12                  | 26                  | 40                  |
| <i>Spain</i>                                            | 25                 | 66                 | 150                | 28                  | 74                  | 210                 |
| <i>Sweden</i>                                           | 358                | 641                | 964                | 138                 | 211                 | 314                 |
| <i>Switzerland</i>                                      | 52                 | 99                 | 149                | 51                  | 95                  | 166                 |
| <i>United Kingdom</i>                                   | 609                | 831                | 876                | 650                 | 1,464               | 1,719               |
| <i>Other countries</i>                                  | 1                  | 1                  | 1                  | 1                   | 2                   | 4                   |
| Latin America (except Cuba)                             | 52                 | 140                | 290                | 382                 | 662                 | 1,164               |
| <i>Argentina</i>                                        | 1                  | 11                 | 2                  | 110                 | 159                 | 332                 |
| <i>Brazil</i>                                           | 34                 | 59                 | 125                | 96                  | 204                 | 275                 |
| <i>Chile</i>                                            | 12                 | 57                 | 129                | 33                  | 30                  | 50                  |
| <i>Colombia</i>                                         | 1                  | 1                  | 1                  | 21                  | 36                  | 55                  |
| <i>Mexico</i>                                           | 1                  | 13                 | 34                 | 44                  | 110                 | 181                 |
| <i>Peru</i>                                             | 4                  | 1                  | 1                  | 14                  | 20                  | 53                  |
| <i>Venezuela</i>                                        | 1                  | 1                  | 1                  | 12                  | 26                  | 80                  |
| <i>Other countries</i>                                  | 1                  | 1                  | 1                  | 53                  | 78                  | 138                 |
| Africa, Middle East, other Asia (except China), Oceania | 191                | 1,113              | 2,549              | 597                 | 1,780               | 3,592               |
| <i>Republic of South Africa</i>                         | 1                  | 1                  | 123                | 43                  | 84                  | 169                 |
| <i>United Arab Republic, Egypt</i>                      | 1                  | 1                  | 1                  | 15                  | 25                  | 27                  |
| <i>Rhodesia</i>                                         | 1                  | 1                  | 8                  | 2                   | 7                   | 8                   |
| <i>Israel</i>                                           | 1                  | 5                  | 6                  | 2                   | 7                   | 30                  |
| <i>Turkey</i>                                           | 5                  | 11                 | 13                 | 12                  | 23                  | 84                  |
| <i>Cambodia</i>                                         | 1                  | 1                  | 1                  | 3                   | 3                   | 2                   |
| <i>Hong Kong</i>                                        | 1                  | 1                  | 1                  | 8                   | 22                  | 47                  |
| <i>India</i>                                            | 1                  | 25                 | 39                 | 68                  | 106                 | 192                 |
| <i>Indonesia</i>                                        | 1                  | 1                  | 3                  | 7                   | 22                  | 34                  |
| <i>Japan</i>                                            | 145                | 810                | 1,779              | 139                 | 804                 | 1,954               |
| <i>Korea</i>                                            | 2                  | 30                 | 102                | 8                   | 47                  | 115                 |
| <i>Pakistan</i>                                         | 1                  | 24                 | 44                 | 6                   | 22                  | 41                  |
| <i>Philippines</i>                                      | 1                  | 1                  | 1                  | 21                  | 39                  | 78                  |
| <i>Thailand</i>                                         | 1                  | 1                  | 1                  | 3                   | 20                  | 47                  |
| <i>Taiwan</i>                                           | 4                  | 13                 | 23                 | 6                   | 11                  | 30                  |
| <i>Australia</i>                                        | 35                 | 100                | 182                | 186                 | 372                 | 476                 |
| <i>New Zealand</i>                                      | 1                  | 95                 | 229                | 31                  | 76                  | 97                  |
| <i>Other countries</i>                                  | 1                  | 1                  | 1                  | 40                  | 95                  | 161                 |
| <b>Sub total</b>                                        | <b>9,068</b>       | <b>14,163</b>      | <b>20,385</b>      | <b>9,153</b>        | <b>14,321</b>       | <b>20,827</b>       |
| Other countries (estimates)                             |                    |                    |                    |                     |                     |                     |
| <i>Bulgaria</i>                                         | 1                  | 1                  | 1                  | 8                   | 14                  | 39                  |
| <i>Cuba</i>                                             | 1                  | 16                 | 1                  | 31                  | 45                  | 22                  |
| <i>Czechoslovakia</i>                                   | 34                 | 37                 | 104                | 22                  | 31                  | 63                  |
| <i>Germany (East)</i>                                   | 68                 | 98                 | 110                | 64                  | 94                  | 130                 |
| <i>Hungary</i>                                          | 10                 | 1                  | 1                  | 20                  | 24                  | 43                  |
| <i>Poland</i>                                           | 65                 | 85                 | 96                 | 65                  | 60                  | 93                  |
| <i>Romania</i>                                          | 33                 | 49                 | 58                 | 33                  | 45                  | 63                  |
| <i>U.S.S.R.</i>                                         | 257                | 478                | 1,158              | 239                 | 391                 | 962                 |
| <i>Yugoslavia</i>                                       | 1                  | 31                 | 76                 | 13                  | 41                  | 63                  |
| <i>China</i>                                            | 2                  | 2                  | 2                  | 2                   | 2                   | 2                   |
| <b>Sub total</b>                                        | <b>467</b>         | <b>794</b>         | <b>1,602</b>       | <b>495</b>          | <b>745</b>          | <b>1,477</b>        |
| <b>Total</b>                                            | <b>9,535</b>       | <b>14,957</b>      | <b>21,987</b>      | <b>9,648</b>        | <b>15,065</b>       | <b>22,304</b>       |

1. Nil.  
2. Not available.  
3. Less than 500 tons.  
Source : Annual World Surveys compiled by the Newsprint Division, Canadian Pulp and Paper Association.



| <b>World exports of newsprint</b>  | <b>1950</b>  | <b>1960</b>  | <b>1969</b>   |
|------------------------------------|--------------|--------------|---------------|
|                                    | '000 Tons    | '000 Tons    | '000 Tons     |
| <b>North America</b>               |              |              |               |
| <i>Canada</i>                      | 4,956        | 6,265        | 8,033         |
| <i>United States</i>               | 44           | 135          | 127           |
| <b>Western Europe</b>              |              |              |               |
| <i>Austria</i>                     | 48           | 100          | 94            |
| <i>Belgium and Luxembourg</i>      | 6            | 46           | 16            |
| <i>Finland</i>                     | 416          | 660          | 1,108         |
| <i>France</i>                      | 19           | 28           | 5             |
| <i>Germany (West)</i>              |              | 1            | 35            |
| <i>Italy</i>                       | 7            | 9            | 70            |
| <i>Netherlands</i>                 | 25           | 47           | 43            |
| <i>Norway</i>                      | 148          | 192          | 471           |
| <i>Portugal</i>                    |              | 1            | 1             |
| <i>Sweden</i>                      | 226          | 436          | 659           |
| <i>Switzerland</i>                 | 2            | 4            | 1             |
| <i>United Kingdom</i>              | 114          | 56           | 2             |
| <b>Latin America</b>               |              |              |               |
| <i>Argentina</i>                   |              |              | 1             |
| <i>Chile</i>                       |              | 32           | 79            |
| <b>Africa :</b>                    |              |              |               |
| <i>Rhodesia</i>                    |              |              | 2             |
| <b>Asia (except China)</b>         |              |              |               |
| <i>Japan</i>                       | 7            | 7            | 4             |
| <i>Pakistan</i>                    |              | 3            | 3             |
| <i>Taiwan</i>                      |              | 2            | 1             |
| <b>Oceania</b>                     |              |              |               |
| <i>Australia</i>                   |              | 1            | 1             |
| <i>New Zealand</i>                 |              | 55           | 133           |
| <b>Sub total</b>                   | <b>6,017</b> | <b>8,078</b> | <b>10,882</b> |
| <b>Other countries (estimates)</b> |              |              |               |
| <i>Czechoslovakia</i>              | 12           | 9            | 48            |
| <i>Germany (East)</i>              | 4            | 14           | 15            |
| <i>Poland</i>                      | 3            | 25           | 10            |
| <i>Romania</i>                     |              | 3            | 5             |
| <i>U.S.S.R.</i>                    | 19           | 104          | 273           |
| <i>Yugoslavia</i>                  |              |              | 15            |
| <i>China</i>                       | 2            | 2            | 2             |
| <b>Sub total</b>                   | <b>38</b>    | <b>155</b>   | <b>366</b>    |
| <b>Total</b>                       | <b>6,054</b> | <b>8,233</b> | <b>11,248</b> |

1. Less than 500 tons.

2. Not available.

Source : Annual World Surveys compiled by the Newsprint Division,  
Canadian Pulp and Paper Association.

~~Latest in Ref~~

22009  
1972

HD9834

C22C33

1971



