

# *Reference Tables*

*November, 1947*

CANADIAN PULP AND PAPER ASSOCIATION  
SUN LIFE BUILDING, MONTREAL, P.Q.

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## *Introduction*

These tables present a succinct picture of pulp and paper operations, their intimate relationship with the forest resources and the forest crop, and something, too, of the importance of the industry in the economy of Canada.

While the material herein is clearly set forth in the index, it should be noted that Section "B" gives a bird's-eye view of the operations of the industry from its pulpwood harvest to its markets; and that in Section "F" may be found, not only the figures revealing the national significance of the industry, but also general statistics covering its operations as a whole.

The publication of these tables has largely been made possible through the kindly aid of L. J. Pouliot, chief of Forest Products Branch of the Dominion Bureau of Statistics; and to him grateful acknowledgment is made.

*Montreal*  
*November 20*  
*1947*

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# "A"—FORESTS AND PULPWOOD

Table 1.

## Forest Extent

|                                                                                                                              | Square Miles |
|------------------------------------------------------------------------------------------------------------------------------|--------------|
| Forested Areas of Canada:                                                                                                    | 1,290,960    |
| All of which, save for 123,000 square miles, lies within the provinces.                                                      |              |
| Forested Areas Classified as Unproductive:                                                                                   | 477,850      |
| Small trees in adverse locations not expected to reach merchantable size.                                                    |              |
| Productive Forest Areas:                                                                                                     | 813,110      |
| Capable of producing continuous crops of timber.                                                                             |              |
| Productive Forest Not Presently Accessible:                                                                                  | 378,110      |
| Accessible Productive Forests:                                                                                               | 435,000      |
| One half of this area bears trees large enough for use; the remainder is younger growth.                                     |              |
| Privately Owned Forests:                                                                                                     | 100,175      |
| Farm wood lots                                                                                                               | 34,792       |
| Others                                                                                                                       | 65,383       |
|                                                                                                                              | 100,175      |
| Accessible Productive Forest Owned by the Crown:                                                                             | 334,825      |
| Cutting Rights Leased by the Crown:                                                                                          | 165,350      |
| Pulp and paper licences                                                                                                      | 129,189      |
| Saw timber licences                                                                                                          | 21,980       |
| Timber sales                                                                                                                 | 13,226       |
| Permit berths                                                                                                                | 955          |
|                                                                                                                              | 165,350      |
| Unoccupied Accessible Productive Forest Owned by the Crown:                                                                  | 169,475      |
| (Reserves and parks form part of the Accessible Productive Forests. Restricted cutting is permitted in some of these areas.) |              |

Source: Dominion Forest Service.

Table 2.

## Forest Holdings

|                               | In accessible Productive Forests | Sq. Miles | Per Cent |
|-------------------------------|----------------------------------|-----------|----------|
| Private holdings              |                                  | 100,175   | 23.      |
| Crown Lands                   |                                  |           |          |
| Leased by pulp and paper cos. |                                  | 129,189   | 30.      |
| Leased by others              |                                  | 36,161    | 8.       |
| Unoccupied                    |                                  | 169,475   | 39.      |
| Accessible Productive Forests |                                  | 435,000   | 100.     |

Source: Dominion Forest Service.

Table 3.

## Forest Volume

|                                 | In 000,000's of cubic feet of merchantable timber in the Productive Forest Areas |
|---------------------------------|----------------------------------------------------------------------------------|
| Accessible Forests:             |                                                                                  |
| Conifers                        | 132,712                                                                          |
| Broad leaved                    | 58,635                                                                           |
| Presently Inaccessible Forests: |                                                                                  |
| Conifers                        | 107,531                                                                          |
| Broad leaved                    | 12,323                                                                           |

Source: Dominion Forest Service.

Table 4.

## Coniferous Stands

|                         | Estimated Stands of Accessible Conifers by Provinces | Millions of cubic feet | Pulp Production Tons — 1946 |
|-------------------------|------------------------------------------------------|------------------------|-----------------------------|
| Prince Edward Island    |                                                      | 61                     | nil                         |
| Nova Scotia             |                                                      | 2,939                  | *                           |
| New Brunswick           |                                                      | 5,450                  | *                           |
| Quebec                  |                                                      | 46,755                 | 3,460,853                   |
| Ontario                 |                                                      | 31,784                 | 1,837,975                   |
| Manitoba                |                                                      | 991                    | *                           |
| Saskatchewan            |                                                      | 1,128                  | nil                         |
| Alberta                 |                                                      | 7,724                  | nil                         |
| British Columbia        |                                                      | 35,880                 | 520,779                     |
| N.S., N.B. and Manitoba |                                                      | .....                  | 795,803                     |
|                         |                                                      | 132,712                | 6,615,410                   |

\* Figures for N.S., N.B. and Manitoba are not compiled separately.

Source: Dominion Forest Service and Dominion Bureau of Statistics.

Table 5.

## Forest Consumption

|                                     | Average Annual Depletion 1935-1944 | 000's of cu. ft. | %     | %     |
|-------------------------------------|------------------------------------|------------------|-------|-------|
| Logs and bolts                      |                                    | 896,412          | 27.8  | 37.7  |
| Pulpwood for domestic use           |                                    | 545,053          | 16.9  | 22.9  |
| Pulpwood for export                 |                                    | 134,111          | 4.2   | 5.7   |
| Firewood                            |                                    | 715,071          | 22.1  | 30.0  |
| Ties, poles, pit-props, post, rails |                                    | 59,781           | 1.8   | 2.5   |
| Miscellaneous                       |                                    | 29,536           | .9    | 1.2   |
|                                     |                                    | 2,379,964        |       | 100.0 |
| Fire                                |                                    | 347,592          |       |       |
| Insects and disease                 |                                    | 500,000          |       |       |
|                                     |                                    | 847,592          | 26.3  |       |
|                                     |                                    | 3,227,556        | 100.0 |       |

Source: Dominion Forest Service.

Table 6.

## Forest Increment

Complete estimates of the rate of growth of Canadian forests have not been compiled, but the following facts are known:

Cubic feet per acre

While there is but a small growth in many areas, over considerable tracts growths have been recorded by the Dominion Forest Service of:

Managed forests in Scandinavia produce:

Replacement of annual depletion in the accessible productive forest areas requires an annual average growth of:

The foregoing figures by no means indicate that there is no cause for anxiety regarding the future maintenance of the forests and their proper conservation for use.

Other factors affecting these figures include:

1. While the annual increment appears to exceed the annual depletion, no comprehensive and proper estimate of forest increment in Canada as a whole has yet been prepared, or is under way.
2. Insects and diseases in the forests periodically reach epidemic proportions; unless checked they will affect the existing balance between depletion and increment.
3. In many instances the depletion is concentrated in the more accessible areas. Growth that accrues in more remote areas is not used.
4. Repeated fires retard and often make impossible the proper regeneration of the forests.
5. Land tenures are often such that there is no economic or other urge upon some loggers to operate along scientific methods.
6. The fire hazard is greater in the more accessible forests, a situation naturally having a bearing on the cutting methods pursued by owners or operators.

Source: Dominion Forest Service.

Table 7.

## Wood Used by Mills

|                                                    | Per Cent |
|----------------------------------------------------|----------|
| From farmers and other small holdings . . . . .    | 20       |
| Other purchases, including sawmill waste . . . . . | 10       |
| Total purchased . . . . .                          | 30       |
| Cut from owned or leased limits . . . . .          | 70       |
|                                                    | 100      |

Source: Estimate by Pulpwood Committee, Canadian Pulp and Paper Association.

Table 8.

## Species of Wood Used by Pulp and Paper Mills — 1946

|                             | Cords     | Per Cent |
|-----------------------------|-----------|----------|
| Pulpwood:                   |           |          |
| Spruce and Balsam . . . . . | 7,564,931 | 86.1     |
| Jack Pine . . . . .         | 445,275   | 5.1      |
| Hemlock . . . . .           | 379,487   | 4.3      |
| Poplar . . . . .            | 208,115   | 2.4      |
| Other Kinds (x) . . . . .   | 86,948    | 1.0      |
|                             | 8,684,756 | 98.9     |
| Other Wood (xx) . . . . .   | 95,171    | 1.1      |
|                             | 8,779,927 | 100.0    |

(x) — Includes cedar, douglas fir, larch, birch and other hardwoods, and boomsticks.

(xx) — Includes sawmill chips, slabs and edgings, sawdust, and butt cores.

Source: Dominion Bureau of Statistics.

Table 9.

## Pulpwood Production — Cords

| Cords      | Apparent Production | Consumption | Exports   | Imports |
|------------|---------------------|-------------|-----------|---------|
| 1920 . . . | 4,024,826           | 2,777,422   | 1,247,404 |         |
| 1921 . . . | 3,273,131           | 2,180,578   | 1,092,553 |         |
| 1922 . . . | 3,923,940           | 2,912,608   | 1,011,332 |         |
| 1923 . . . | 4,654,663           | 3,270,433   | 1,384,230 |         |
| 1924 . . . | 4,647,201           | 3,316,951   | 1,330,250 |         |
| 1925 . . . | 5,092,461           | 3,668,959   | 1,423,502 |         |
| 1926 . . . | 5,621,305           | 4,229,567   | 1,391,738 |         |
| 1927 . . . | 5,929,456           | 4,387,687   | 1,541,769 |         |
| 1928 . . . | 6,295,912           | 4,796,320   | 1,532,266 | 32,674  |
| 1929 . . . | 6,536,335           | 5,278,422   | 1,294,995 | 37,082  |
| 1930 . . . | 5,977,183           | 4,741,349   | 1,330,466 | 94,632  |
| 1931 . . . | 5,199,914           | 4,148,279   | 1,123,330 | 71,695  |
| 1932 . . . | 4,222,224           | 3,647,754   | 620,124   | 45,654  |
| 1933 . . . | 4,746,383           | 4,044,876   | 718,556   | 17,049  |
| 1934 . . . | 5,773,970           | 4,766,604   | 1,021,285 | 13,919  |
| 1935 . . . | 6,095,016           | 5,005,083   | 1,109,873 | 19,940  |
| 1936 . . . | 7,002,057           | 5,775,894   | 1,235,754 | 9,591   |
| 1937 . . . | 8,298,165           | 6,613,639   | 1,705,031 | 20,305  |
| 1938 . . . | 6,438,344           | 4,719,753   | 1,752,259 | 33,668  |
| 1939 . . . | 6,899,986           | 5,386,240   | 1,539,440 | 25,694  |
| 1940 . . . | 8,499,922           | 6,996,119   | 1,551,429 | 47,626  |
| 1941 . . . | 9,544,699           | 7,688,388   | 1,856,392 | 81      |
| 1942 . . . | 9,653,574           | 7,667,438   | 1,987,850 | 1,714   |
| 1943 . . . | 8,801,368           | 7,263,155   | 1,540,592 | 2,379   |
| 1944 . . . | 8,668,566           | 7,177,639   | 1,499,136 | 8,209   |
| 1945 . . . | 9,145,673           | 7,478,508   | 1,671,298 | 4,133   |
| 1946 . . . | 10,523,256          | 8,684,756   | 1,855,381 | 16,881  |

Note: Prior to 1946 "Apparent Production" and "Consumption" figures include small quantities of sawmill chips, slabs and edgings, sawdust, and butt cores.

Apparent production estimated on the basis of consumption plus exports minus imports.

Imports not reported prior to 1928.

All quantities are given in terms of rough or unpeeled wood.

Source: Dominion Bureau of Statistics.

Table 10.

## Pulpwood Production — Value

| Value      | Apparent Production | Consumption  | Exports      | Imports   |
|------------|---------------------|--------------|--------------|-----------|
| 1920 . . . | \$61,183,060        | \$45,404,889 | \$15,778,171 |           |
| 1921 . . . | 52,900,872          | 38,283,262   | 14,617,610   |           |
| 1922 . . . | 50,735,361          | 40,375,599   | 10,359,762   |           |
| 1923 . . . | 57,119,596          | 43,594,592   | 13,525,004   |           |
| 1924 . . . | 57,777,640          | 44,241,582   | 13,536,058   |           |
| 1925 . . . | 62,181,537          | 48,012,602   | 14,168,935   |           |
| 1926 . . . | 68,262,873          | 54,195,843   | 14,067,030   |           |
| 1927 . . . | 70,284,895          | 54,582,190   | 15,702,705   |           |
| 1928 . . . | 74,587,833          | 59,578,417   | 15,269,660   | \$260,244 |
| 1929 . . . | 76,120,063          | 63,101,138   | 13,314,738   | 295,813   |
| 1930 . . . | 67,529,612          | 54,788,730   | 13,611,617   | 870,735   |
| 1931 . . . | 51,973,243          | 43,120,740   | 9,359,592    | 507,089   |
| 1932 . . . | 36,750,910          | 32,192,066   | 4,830,506    | 271,662   |
| 1933 . . . | 33,213,973          | 28,609,247   | 4,696,459    | 91,733    |
| 1934 . . . | 38,302,807          | 31,675,325   | 6,680,307    | 52,825    |
| 1935 . . . | 41,195,871          | 34,265,329   | 7,041,052    | 110,510   |
| 1936 . . . | 48,680,200          | 40,455,656   | 8,276,423    | 51,879    |
| 1937 . . . | 63,057,205          | 51,081,661   | 12,088,329   | 112,785   |
| 1938 . . . | 53,761,999          | 40,326,689   | 13,641,798   | 206,488   |
| 1939 . . . | 58,302,668          | 46,558,645   | 11,901,480   | 157,457   |
| 1940 . . . | 74,347,132          | 62,230,155   | 12,521,880   | 404,903   |
| 1941 . . . | 88,193,045          | 72,264,544   | 15,928,826   | 325       |
| 1942 . . . | 103,619,151         | 83,318,870   | 20,314,253   | 13,972    |
| 1943 . . . | 110,844,790         | 92,308,272   | 18,565,265   | 28,747    |
| 1944 . . . | 124,363,926         | 104,477,689  | 20,012,285   | 126,048   |
| 1945 . . . | 146,172,701         | 122,347,847  | 23,881,928   | 57,074    |
| 1946 . . . | 183,085,359         | 154,581,001  | 28,731,150   | 226,792   |

Apparent production estimated on the basis of consumption plus exports minus imports.

Imports not reported prior to 1928.

All quantities are given in terms of rough or unpeeled wood.

Source: Dominion Bureau of Statistics.

Table 11.

## Cords, Cubic Feet, and Board Measure

A standard cord is a stack of wood 4 x 4 x 8 feet containing 128 cubic feet of wood, bark, and interstices. A cord usually contains about 85 cubic feet of solid wood, but the content varies with the size of the logs.

In the lumber industry, wood is often measured by the board foot. A board foot is the equivalent of a board one inch in thickness and one square foot in surface area. The relationship between board measure and cord measure varies in different sections of the Dominion. Usually, 2 cords are considered to be equivalent to about 1000 feet board measure. But this ratio also varies with the size and type of the wood.

Source: Dominion Forest Service.

# "B" — 1946 FIGURES

Table 12.  
Pulpwood Production 1946

|                                     | Cords      | Value         |
|-------------------------------------|------------|---------------|
| Apparent pulpwood production . . .  | 10,523,256 | \$183,085,359 |
| Pulpwood imports . . . . .          | 16,881     | 226,792       |
| Total supply . . . . .              | 10,540,137 | \$183,312,151 |
| Less pulpwood exports . . . . .     | 1,855,381  | 28,731,150    |
| Pulpwood used in Canadian mills . . | 8,684,756  | \$154,581,001 |

Source: Dominion Bureau of Statistics.

Table 13.  
Pulp Supply 1946

The pulpwood used in the mills together with other pulps resulted in the following supply:

|                                     | Tons      | Value         |
|-------------------------------------|-----------|---------------|
| Groundwood pulp* . . . . .          | 4,122,046 | \$113,599,526 |
| Chemical pulp** . . . . .           | 2,493,364 | 174,024,701   |
| Total wood pulp production . . . .  | 6,615,410 | \$287,624,227 |
| Wood pulp imports . . . . .         | 14,471    | 1,290,956     |
| Other wood fibre used . . . . .     | 152       | 1,380         |
| Other fibres and stock*** . . . . . | 331,157   | 8,636,115     |
| Total supply . . . . .              | 6,961,190 | \$297,552,678 |

\* Includes screenings, off-quality, defibrated, and exploded pulp.

\*\* Includes screenings.

\*\*\* Includes rags, straw, and wastepaper.

Source: Dominion Bureau of Statistics.

Table 14.  
Total Production 1946

From the foregoing supply of pulps flowed the industry's production for sale as follows:

| Pulp Exported                      | Tons    | Value         |
|------------------------------------|---------|---------------|
| Mechanical . . . . .               | 268,290 | \$ 12,571,257 |
| Bleached sulphite . . . . .        | 460,503 | 47,013,382    |
| Unbleached sulphite . . . . .      | 446,209 | 35,120,122    |
| Sulphate . . . . .                 | 204,769 | 16,998,605    |
| Other wood pulp . . . . .          | 19,667  | 1,763,821     |
| Chemical pulp screenings . . . . . | 11,326  | 390,881       |
| Mechanical pulp screenings . . . . | 7,794   | 162,591       |

|                                  |           |               |
|----------------------------------|-----------|---------------|
| Pulp for Domestic Sale . . . . . | 1,418,558 | \$114,020,659 |
|                                  | 274,885a  | 16,837,867b   |

|                                    |           |               |
|------------------------------------|-----------|---------------|
| Pulp Production For Sale . . . . . | 1,693,443 | \$130,858,526 |
|------------------------------------|-----------|---------------|

## Paper Production

|                               |            |               |
|-------------------------------|------------|---------------|
| For domestic market . . . . . | 1,301,323  | \$112,759,600 |
| Exported . . . . .            | 4,045,795c | 284,196,790   |

|                            |           |               |
|----------------------------|-----------|---------------|
| Gross Production . . . . . | 5,347,118 | \$396,956,390 |
|                            | 7,040,561 | \$527,814,916 |

a: Total production less exports and pulp made for mills own use.

b: Gross value of production less paper production and pulp exports.

c: Excludes tonnage of bags, cartons, and other paper products having value of \$3,241,015.

Source: Dominion Bureau of Statistics.

Table 15.  
Markets 1946

These figures show the relation between wood pulp production and export markets:  
Pulp Exports

|                                 | Tons      | Value         |
|---------------------------------|-----------|---------------|
| To U.S.A. . . . .               | 1,252,648 | \$ 99,972,972 |
| To U.K. . . . .                 | 119,973   | 10,122,012    |
| Elsewhere . . . . .             | 45,937    | 3,925,675     |
| Total pulp exports . . . . .    | 1,418,558 | \$114,020,659 |
| Made for domestic use . . . . . | 5,542,632 | 183,532,019   |
|                                 | 6,961,190 | \$297,552,678 |

Of the 5,542,632 tons of pulp made for domestic use, about 275,000 tons were sold on the domestic market and 5,267,747 tons valued at \$166,694,152 were converted into 5,347,118 tons of paper and paper board valued at \$396,956,390. The exports from this production, including paper products, were as follows:

## Newsprint Exports (a)

|                              |           |               |
|------------------------------|-----------|---------------|
| To U.S.A. . . . .            | 3,338,777 | \$225,622,404 |
| To U.K. . . . .              | 82,888    | 5,954,814     |
| To other countries . . . . . | 452,350   | 35,128,005    |
|                              | 3,874,015 | \$266,705,223 |

## Other Paper Exports

|                              |         |               |
|------------------------------|---------|---------------|
| To U.S.A. . . . .            | 57,519  | 3,493,853     |
| To U.K. . . . .              | 46,842  | 4,433,327     |
| To other countries . . . . . | 67,419  | 9,564,387     |
|                              | 171,780 | \$ 17,491,567 |

## Paper Products Exports (b)

|                              |   |              |
|------------------------------|---|--------------|
| To U.S.A. . . . .            | — | \$ 528,049   |
| To U.K. . . . .              | — | 152,611      |
| To other countries . . . . . | — | 2,560,355    |
|                              | — | \$ 3,241,015 |

|                                  |           |               |
|----------------------------------|-----------|---------------|
| Paper Exports . . . . .          | 4,045,795 | \$287,437,805 |
| Pulp and Paper Exports . . . . . | 5,464,353 | \$401,458,464 |

a: Includes mutilated newsprint.

b: Includes bags, box, hanging paper, and miscellaneous paper products.

Source: Dominion Bureau of Statistics.

Table 16.  
Pulp Use and Sale 1946

The figures in this table showing the amount of pulp made for various purposes naturally differ fractionally from those of actual exports, domestic sales, and domestic consumption during the 1946 year.

| Tons                          | Made for own use | Made for Domestic Sale | Made for sale abroad | Total Production |
|-------------------------------|------------------|------------------------|----------------------|------------------|
| Groundwood . . . . .          | 3,712,324        | 18,251                 | 267,273              | 3,997,848        |
| Sulphite . . . . .            | 761,068          | 157,494                | 911,455              | 1,830,017        |
| Sulphate . . . . .            | 318,258          | 42,062                 | 201,913              | 562,233          |
| Screenings & others . . . . . | 130,317          | 55,733                 | 39,262               | 225,312          |
|                               | 4,921,967        | 273,540                | 1,419,903            | 6,615,410        |

Source: Dominion Bureau of Statistics.

Table 17.  
Paper Production 1946

|                          | Tons      | Value         |
|--------------------------|-----------|---------------|
| Newsprint . . . . .      | 4,162,158 | \$280,809,610 |
| Book & Writing . . . . . | 189,318   | 29,995,156    |
| Wrapping . . . . .       | 175,369   | 20,797,070    |
| Paperboard . . . . .     | 683,643   | 50,213,833    |
| Tissue . . . . .         | 56,717    | 9,015,540     |
| All other . . . . .      | 79,913    | 6,125,181     |
|                          | 5,347,118 | \$396,956,390 |

Source: Dominion Bureau of Statistics.

Table 18.

## Pulp and Paper Exports 1946

|                                   | Total Exports |               | To U.S.A. |               | To Other Countries |              |
|-----------------------------------|---------------|---------------|-----------|---------------|--------------------|--------------|
|                                   | Tons          | Value         | Tons      | Value         | Tons               | Value        |
| PULP —                            |               |               |           |               |                    |              |
| Sulphate Kraft . . . . .          | 204,769       | 16,998,605    | 193,480   | 16,033,011    | 11,289             | 956,594      |
| Sulphite, bleached . . . . .      | 244,879       | 27,211,028    | 195,552   | 21,654,713    | 49,327             | 5,556,315    |
| Dissolving Paper Grades . . . . . | 215,624       | 19,802,354    | 197,514   | 18,056,026    | 18,110             | 1,746,328    |
| Sulphite, unbleached . . . . .    | 325,688       | 25,786,632    | 281,027   | 22,260,812    | 44,661             | 3,525,820    |
| Strong News Grade . . . . .       | 120,521       | 9,333,490     | 115,545   | 8,984,933     | 4,976              | 348,557      |
| Total . . . . .                   | 1,111,481     | \$ 99,132,109 | 983,118   | \$ 86,989,495 | 128,363            | \$12,142,614 |
| Mechanical . . . . .              | 268,290       | 12,571,257    | 230,937   | 10,669,224    | 37,353             | 1,902,033    |
| Other Pulps . . . . .             | 19,667        | 1,763,821     | 19,667    | 1,763,821     | —                  | —            |
| Screenings . . . . .              | 11,326        | 390,881       | 11,326    | 390,881       | —                  | —            |
| Chemical . . . . .                | 7,794         | 162,591       | 7,600     | 159,551       | 194                | 3,040        |
| Mechanical . . . . .              | —             | —             | —         | —             | —                  | —            |
| Total . . . . .                   | 307,077       | \$ 14,888,550 | 269,530   | \$ 12,983,477 | 37,547             | \$ 1,905,073 |
| TOTAL PULP . . . . .              | 1,418,558     | \$114,020,659 | 1,252,648 | \$ 99,972,972 | 165,910            | \$14,047,687 |
| NEWSPRINT PAPER —                 |               |               |           |               |                    |              |
| Standard . . . . .                | 3,858,467     | 265,864,969   | 3,323,238 | 224,782,463   | 535,229            | 41,082,506   |
| Mutilated . . . . .               | 15,548        | 840,254       | 15,539    | 839,941       | 9                  | 313          |
| TOTAL NEWSPRINT . . . . .         | 3,874,015     | \$266,705,223 | 3,338,777 | \$225,622,404 | 535,238            | \$41,082,819 |
| OTHER PAPER —                     |               |               |           |               |                    |              |
| Wrapping — Coated . . . . .       | 2,259         | 428,117       | 13        | 4,499         | 2,246              | 423,618      |
| Wrapping — Kraft — n.o.p. . . . . | 14,270        | 1,720,167     | 264       | 31,135        | 14,006             | 1,689,032    |
| Wrapping — n.o.p. . . . .         | 5,924         | 941,112       | 1,410     | 103,207       | 4,514              | 837,905      |
| Book . . . . .                    | 24,676        | 3,580,946     | 8,532     | 717,197       | 16,144             | 2,863,749    |
| Bond & Writing . . . . .          | 6,175         | 1,410,794     | 70        | 4,804         | 6,105              | 1,405,990    |
| Paperboard — n.o.p. . . . .       | 59,799        | 5,622,884     | 7,928     | 685,021       | 51,871             | 4,937,863    |
| Roofing — All Kinds . . . . .     | 4,146         | 330,205       | 447       | 35,632        | 3,699              | 294,573      |
| Pulp & Fibre Wallboards . . . . . | 14,294        | 1,234,205     | 1,129     | 101,007       | 13,165             | 1,133,198    |
| Waste Paper — n.o.p. . . . .      | 10,421        | 264,338       | 10,380    | 261,371       | 41                 | 2,967        |
| Pulpboard for Wallboard . . . . . | 27,610        | 1,562,941     | 27,305    | 1,540,061     | 305                | 22,880       |
| Tissue . . . . .                  | 328           | 87,666        | 38        | 9,251         | 290                | 78,415       |
| Toilet . . . . .                  | 1,878         | 308,192       | 3         | 668           | 1,875              | 307,524      |
| TOTAL OTHER PAPER . . . . .       | 171,780       | \$ 17,491,567 | 57,519    | \$ 3,493,853  | 114,261            | \$13,997,714 |
| PAPER PRODUCTS (a)                |               |               |           |               |                    |              |
| Bags, Boxes & Cartons . . . . .   | —             | 197,284       | —         | 20,418        | —                  | 176,866      |
| Bags . . . . .                    | —             | 622,146       | —         | 84,179        | —                  | 537,967      |
| Boxes & Cartons . . . . .         | —             | 687,149       | —         | 177,815       | —                  | 509,334      |
| Hangings or Wall . . . . .        | —             | 70,080        | —         | 70,080        | —                  | —            |
| Hanging not Printed . . . . .     | —             | 378,821       | —         | 43,531        | —                  | 335,290      |
| Writing — n.o.p. . . . .          | —             | 5,412         | —         | 99            | —                  | 5,313        |
| Handkerchiefs Tissues . . . . .   | —             | 23,837        | —         | —             | —                  | 23,837       |
| Napkins & Towels . . . . .        | —             | 1,256,286     | —         | 131,927       | —                  | 1,124,359    |
| Other Paper Products . . . . .    | —             | —             | —         | —             | —                  | —            |
| TOTAL PAPER PRODUCTS . . . . .    | —             | \$ 3,241,015  | —         | \$ 528,049    | —                  | \$ 2,712,966 |
| GRAND TOTAL — Tons . . . . .      | 5,464,353     | \$401,458,464 | 4,648,944 | \$329,617,278 | 815,409            | \$71,841,186 |

n.o.p. Not otherwise provided for.

a: Weight of paper products is unavailable.

Source: Dominion Bureau of Statistics.

# "C" — PULP STATISTICS

Table 19.

## Pulp Production and Exports

| All grades: chemical, mechanical and screenings. |            |               |           |               |
|--------------------------------------------------|------------|---------------|-----------|---------------|
|                                                  | Production |               | Exports   |               |
|                                                  | Tons       | Value         | Tons      | Value         |
| 1920 . . . . .                                   | 1,960,102  | Not available | 819,985   | \$ 76,383,978 |
| 1921 . . . . .                                   | 1,549,082  | \$ 78,338,278 | 527,222   | 33,133,675    |
| 1922 . . . . .                                   | 2,150,251  | 84,947,598    | 818,257   | 41,037,849    |
| 1923 . . . . .                                   | 2,475,904  | 99,073,203    | 875,358   | 47,027,496    |
| 1924 . . . . .                                   | 2,465,011  | 90,323,972    | 781,983   | 40,242,972    |
| 1925 . . . . .                                   | 2,772,507  | 100,216,383   | 961,367   | 47,931,905    |
| 1926 . . . . .                                   | 3,229,791  | 115,154,199   | 1,005,780 | 52,077,122    |
| 1927 . . . . .                                   | 3,278,978  | 114,442,550   | 879,154   | 46,996,041    |
| 1928 . . . . .                                   | 3,608,045  | 121,184,214   | 863,801   | 45,614,823    |
| 1929 . . . . .                                   | 4,021,229  | 129,033,154   | 830,848   | 43,367,984    |
| 1930 . . . . .                                   | 3,619,345  | 112,355,872   | 760,220   | 39,059,979    |
| 1931 . . . . .                                   | 3,167,960  | 84,780,809    | 622,537   | 30,056,643    |
| 1932 . . . . .                                   | 2,663,248  | 64,412,453    | 452,293   | 18,930,064    |
| 1933 . . . . .                                   | 2,979,562  | 64,114,074    | 608,510   | 23,354,637    |
| 1934 . . . . .                                   | 3,636,335  | 75,726,958    | 605,641   | 25,444,844    |
| 1935 . . . . .                                   | 3,868,341  | 79,722,039    | 662,475   | 27,625,730    |
| 1936 . . . . .                                   | 4,485,445  | 92,336,953    | 754,496   | 31,246,695    |
| 1937 . . . . .                                   | 5,141,504  | 116,729,228   | 870,716   | 41,815,731    |
| 1938 . . . . .                                   | 3,667,789  | 89,897,148    | 554,037   | 27,730,738    |
| 1939 . . . . .                                   | 4,166,301  | 97,131,817    | 705,516   | 31,000,602    |
| 1940 . . . . .                                   | 5,290,762  | 149,005,267   | 1,068,516 | 60,930,149    |
| 1941 . . . . .                                   | 5,720,847  | 175,439,551   | 1,411,725 | 85,897,736    |
| 1942 . . . . .                                   | 5,606,461  | 192,145,062   | 1,510,746 | 96,266,873    |
| 1943 . . . . .                                   | 5,272,830  | 194,519,152   | 1,556,457 | 100,012,775   |
| 1944 . . . . .                                   | 5,271,137  | 211,041,412   | 1,408,081 | 101,563,024   |
| 1945 . . . . .                                   | 5,600,814  | 231,873,122   | 1,434,527 | 106,054,911   |
| 1946 . . . . .                                   | 6,615,410  | 287,624,227   | 1,418,558 | 114,020,659   |

Source: Dominion Bureau of Statistics.

Table 20.

## Chemical Pulp Production and Exports

| All grades. Screenings not included. |               |                     |               |
|--------------------------------------|---------------|---------------------|---------------|
|                                      | Tons Produced | Value of Production | Tons Exported |
| 1915 . . . . .                       | .....         | .....               | 157,469       |
| 1916 . . . . .                       | .....         | .....               | 229,147       |
| 1917 . . . . .                       | 540,577       | .....               | 261,760       |
| 1918 . . . . .                       | 677,683       | .....               | 402,850       |
| 1919 . . . . .                       | 725,187       | .....               | 397,578       |
| 1920 . . . . .                       | 869,988       | .....               | 515,641       |
| 1921 . . . . .                       | 612,467       | \$ 45,929,513       | 303,728       |
| 1922 . . . . .                       | 897,553       | 53,615,692          | 503,487       |
| 1923 . . . . .                       | 1,012,391     | 60,688,318          | 534,251       |
| 1924 . . . . .                       | 986,508       | 53,344,343          | 528,283       |
| 1925 . . . . .                       | 1,085,226     | 59,979,633          | 601,163       |
| 1926 . . . . .                       | 1,251,178     | 69,220,427          | 623,703       |
| 1927 . . . . .                       | 1,278,572     | 69,169,002          | 599,478       |
| 1928 . . . . .                       | 1,392,755     | 72,500,188          | 628,438       |
| 1929 . . . . .                       | 1,501,273     | 76,198,051          | 585,108       |
| 1930 . . . . .                       | 1,265,057     | 63,156,351          | 527,800       |
| 1931 . . . . .                       | 1,086,735     | 46,998,998          | 443,903       |
| 1932 . . . . .                       | 913,438       | 35,987,294          | 328,532       |
| 1933 . . . . .                       | 1,092,813     | 38,552,677          | 459,772       |
| 1934 . . . . .                       | 1,211,719     | 44,555,528          | 472,447       |
| 1935 . . . . .                       | 1,276,400     | 47,171,965          | 519,480       |
| 1936 . . . . .                       | 1,462,659     | 53,356,519          | 597,512       |
| 1937 . . . . .                       | 1,707,889     | 69,538,019          | 680,264       |
| 1938 . . . . .                       | 1,124,312     | 47,990,730          | 421,597       |
| 1939 . . . . .                       | 1,342,448     | 53,369,808          | 526,774       |
| 1940 . . . . .                       | 1,879,812     | 92,553,463          | 857,193       |
| 1941 . . . . .                       | 2,122,292     | 113,128,794         | 1,121,784     |
| 1942 . . . . .                       | 2,246,438     | 126,208,457         | 1,213,587     |
| 1943 . . . . .                       | 2,188,026     | 129,952,141         | 1,259,670     |
| 1944 . . . . .                       | 2,109,169     | 138,140,452         | 1,156,442     |
| 1945 . . . . .                       | 2,166,820     | 144,352,170         | 1,145,660     |
| 1946 . . . . .                       | 2,454,400     | 172,959,381         | 1,131,148     |

Source: Dominion Bureau of Statistics.

Table 21.

## Chemical Pulp Exports

| All grades. Screenings not included. |           |          |        |           |
|--------------------------------------|-----------|----------|--------|-----------|
| Tons                                 | Sulphite  | Sulphate | Other  | Total     |
| 1931 . . . . .                       | 385,421   | 54,993   | 3,488  | 443,902   |
| 1932 . . . . .                       | 287,930   | 38,531   | 2,071  | 328,532   |
| 1933 . . . . .                       | 395,715   | 59,320   | 4,738  | 459,773   |
| 1934 . . . . .                       | 376,460   | 88,037   | 7,950  | 472,447   |
| 1935 . . . . .                       | 411,817   | 96,954   | 10,709 | 519,480   |
| 1936 . . . . .                       | 464,739   | 119,400  | 13,373 | 597,512   |
| 1937 . . . . .                       | 546,141   | 122,781  | 11,342 | 680,264   |
| 1938 . . . . .                       | 335,273   | 76,286   | 10,039 | 421,598   |
| 1939 . . . . .                       | 408,846   | 108,869  | 9,059  | 526,774   |
| 1940 . . . . .                       | 708,806   | 136,052  | 12,334 | 857,192   |
| 1941 . . . . .                       | 919,737   | 185,365  | 16,682 | 1,121,784 |
| 1942 . . . . .                       | 1,013,505 | 181,325  | 18,757 | 1,213,587 |
| 1943 . . . . .                       | 960,297   | 178,876  | 17,269 | 1,156,442 |
| 1945 . . . . .                       | 942,874   | 181,015  | 21,771 | 1,145,660 |
| 1946 . . . . .                       | 906,712   | 204,769  | 19,667 | 1,131,148 |

Source: Dominion Bureau of Statistics.

Table 22.

## Bleached Sulphite Pulp

|                | Production |              | Apparent Consumption (b) |              | Exports |            | Imports |          |
|----------------|------------|--------------|--------------------------|--------------|---------|------------|---------|----------|
|                | Tons       | Value        | Tons                     | Value        | Tons    | Value      | Tons    | Value    |
| 1920 . . . . . | 138,624    | \$21,301,465 | a                        | a            | a       | a          | a       | a        |
| 1921 . . . . . | 154,804    | 14,481,158   | 78,028                   | \$ 6,943,230 | 76,801  | 7,540,128  | 25      | \$ 2,200 |
| 1922 . . . . . | 146,690    | 11,691,904   | 169                      | —286,705     | 146,705 | 11,993,202 | 184     | 14,593   |
| 1923 . . . . . | 189,935    | 15,307,069   | 30,269                   | 1,756,598    | 159,873 | 13,568,320 | 207     | 17,849   |
| 1924 . . . . . | 200,764    | 14,653,587   | 34,975                   | 2,276,040    | 165,868 | 12,383,645 | 79      | 6,098    |
| 1925 . . . . . | 227,465    | 16,981,584   | 41,897                   | 2,956,482    | 185,888 | 14,049,500 | 320     | 24,398   |
| 1926 . . . . . | 256,868    | 19,645,060   | 56,131                   | 3,929,938    | 200,994 | 15,734,220 | 257     | 19,098   |
| 1927 . . . . . | 289,313    | 21,087,792   | 52,299                   | 2,697,969    | 237,227 | 18,407,169 | 213     | 17,346   |
| 1928 . . . . . | 304,769    | 22,451,771   | 53,520                   | 3,371,582    | 251,542 | 19,112,964 | 293     | 32,775   |
| 1929 . . . . . | 324,548    | 23,814,234   | 71,327                   | 4,631,905    | 253,809 | 19,246,692 | 588     | 64,363   |
| 1930 . . . . . | 293,394    | 19,619,367   | 45,587                   | 1,764,164    | 249,098 | 17,954,714 | 1,291   | 99,511   |
| 1931 . . . . . | 301,357    | 16,978,118   | 39,858                   | 712,918      | 261,700 | 16,282,735 | 201     | 17,535   |
| 1932 . . . . . | 256,478    | 13,081,700   | 48,928                   | 1,909,832    | 207,711 | 11,181,623 | 161     | 9,755    |
| 1933 . . . . . | 355,812    | 16,109,572   | 60,775                   | 1,967,673    | 295,111 | 14,145,283 | 74      | 3,384    |
| 1934 . . . . . | 340,262    | 18,034,000   | 66,205                   | 3,431,395    | 274,144 | 14,607,138 | 87      | 4,533    |
| 1935 . . . . . | 374,157    | 19,551,605   | 61,119                   | 3,309,409    | 313,144 | 16,249,656 | 106     | 7,460    |
| 1936 . . . . . | 429,714    | 22,259,923   | 78,094                   | 3,884,783    | 351,651 | 18,376,727 | 31      | 1,587    |
| 1937 . . . . . | 459,041    | 27,135,378   | 89,187                   | 5,038,025    | 369,874 | 22,099,127 | 20      | 1,774    |
| 1938 . . . . . | 304,834    | 18,818,095   | 68,457                   | 3,080,445    | 236,438 | 15,742,741 | 61      | 5,091    |
| 1939 . . . . . | 404,268    | 21,284,125   | 105,477                  | 4,639,358    | 299,686 | 16,697,177 | 895     | 52,410   |
| 1940 . . . . . | 543,987    | 36,576,496   | 118,166                  | 6,879,197    | 427,482 | 29,812,822 | 1,661   | 115,523  |
| 1941 . . . . . | 590,812    | 43,408,549   | 110,246                  | 6,363,374    | 481,597 | 37,137,254 | 1,031   | 92,079   |
| 1942 . . . . . | 597,316    | 43,809,756   | 135,876                  | 7,618,564    | 463,301 | 36,382,124 | 1,861   | 190,932  |
| 1943 . . . . . | 587,538    | 44,994,159   | 124,638                  | 7,838,345    | 465,946 | 37,528,067 | 3,046   | 372,253  |
| 1944 . . . . . | 585,699    | 48,767,224   | 154,570                  | 10,565,098   | 434,520 | 38,614,714 | 3,391   | 412,588  |
| 1945 . . . . . | 603,929    | 50,919,572   | 144,890                  | 8,799,107    | 462,038 | 42,491,042 | 2,999   | 370,577  |
| 1946 . . . . . | 616,797    | 58,859,624   | 160,415                  | 12,358,355   | 460,503 | 47,013,382 | 4,121   | 512,113  |

a: Not available prior to 1921.

b: Estimated on the basis of production plus imports minus exports.

Source: Dominion Bureau of Statistics.

Table 23.

## Unbleached Sulphite Pulp

|                | Production |               | Apparent Consumption (b) |               | Exports |              | Imports |              |
|----------------|------------|---------------|--------------------------|---------------|---------|--------------|---------|--------------|
|                | Tons       | Value         | Tons                     | Value         | Tons    | Value        | Tons    | Value        |
| 1920 . . . . . | 515,649    | \$ 48,778,369 | a                        | a             | a       | a            | a       | a            |
| 1921 . . . . . | 322,125    | 22,002,694    | 208,964                  | \$ 14,149,662 | 127,389 | \$ 9,122,612 | 14,228  | \$ 1,269,580 |
| 1922 . . . . . | 532,188    | 29,222,369    | 339,132                  | 19,607,942    | 208,446 | 10,477,746   | 15,390  | 863,319      |
| 1923 . . . . . | 595,891    | 31,704,333    | 382,116                  | 20,066,596    | 228,033 | 12,406,095   | 14,258  | 768,358      |
| 1924 . . . . . | 567,271    | 26,829,927    | 365,345                  | 16,393,942    | 222,227 | 11,611,367   | 20,301  | 1,175,362    |
| 1925 . . . . . | 615,320    | 29,670,655    | 370,251                  | 16,641,014    | 265,553 | 14,150,271   | 20,484  | 1,120,630    |
| 1926 . . . . . | 738,235    | 35,406,932    | 501,588                  | 21,969,773    | 254,574 | 14,393,546   | 17,927  | 956,387      |
| 1927 . . . . . | 726,747    | 33,803,631    | 556,515                  | 24,699,183    | 192,557 | 10,269,560   | 22,325  | 1,165,112    |
| 1928 . . . . . | 812,458    | 35,359,990    | 620,007                  | 25,658,878    | 214,126 | 10,758,977   | 21,675  | 1,037,865    |
| 1929 . . . . . | 911,684    | 38,144,801    | 733,636                  | 29,356,266    | 196,978 | 9,713,979    | 18,930  | 925,444      |
| 1930 . . . . . | 783,410    | 32,494,078    | 608,923                  | 23,907,192    | 187,424 | 9,201,250    | 12,937  | 614,364      |
| 1931 . . . . . | 640,222    | 22,433,990    | 529,242                  | 17,813,130    | 123,721 | 5,146,954    | 12,741  | 526,094      |
| 1932 . . . . . | 512,593    | 16,174,624    | 445,446                  | 14,009,417    | 80,219  | 2,606,647    | 15,072  | 441,440      |
| 1933 . . . . . | 553,801    | 15,070,885    | 458,627                  | 12,171,104    | 100,604 | 3,067,525    | 5,430   | 167,744      |
| 1934 . . . . . | 650,380    | 17,933,546    | 556,150                  | 14,812,620    | 102,316 | 3,373,231    | 8,086   | 252,305      |
| 1935 . . . . . | 644,820    | 17,546,789    | 562,251                  | 14,878,220    | 98,673  | 3,186,894    | 16,104  | 518,325      |
| 1936 . . . . . | 739,213    | 19,900,576    | 645,133                  | 16,873,919    | 113,088 | 3,634,971    | 19,008  | 608,314      |
| 1937 . . . . . | 914,191    | 28,355,232    | 758,367                  | 21,101,623    | 176,267 | 7,907,788    | 20,443  | 654,179      |
| 1938 . . . . . | 575,263    | 19,037,310    | 492,398                  | 15,499,591    | 98,835  | 4,048,165    | 15,970  | 510,446      |
| 1939 . . . . . | 624,552    | 19,998,275    | 534,726                  | 16,696,992    | 109,160 | 3,954,980    | 19,334  | 653,697      |
| 1940 . . . . . | 936,558    | 36,941,108    | 673,243                  | 22,766,789    | 281,324 | 14,857,150   | 18,009  | 682,831      |
| 1941 . . . . . | 1,073,704  | 46,797,067    | 651,611                  | 21,708,638    | 438,140 | 25,942,972   | 16,047  | 854,543      |
| 1942 . . . . . | 1,156,137  | 55,524,053    | 625,522                  | 22,732,914    | 550,204 | 33,898,728   | 19,589  | 1,107,589    |
| 1943 . . . . . | 1,125,033  | 58,076,305    | 553,108                  | 22,158,932    | 590,541 | 36,997,345   | 18,616  | 1,079,880    |
| 1944 . . . . . | 1,023,930  | 59,891,667    | 508,509                  | 23,344,259    | 525,777 | 37,235,232   | 10,356  | 687,824      |
| 1945 . . . . . | 1,035,755  | 61,923,471    | 565,677                  | 27,748,246    | 480,836 | 34,916,473   | 10,758  | 741,248      |
| 1946 . . . . . | 1,213,220  | 76,000,948    | 777,306                  | 41,652,523    | 446,209 | 35,120,122   | 10,295  | 771,697      |

a: Not available prior to 1921.

b: Estimated on the basis of production plus imports minus exports.

Source: Dominion Bureau of Statistics.

Table 24.

## Sulphate Pulp

|      | Production |               | Apparent Consumption (b) |               | Exports |               | Imports |        |
|------|------------|---------------|--------------------------|---------------|---------|---------------|---------|--------|
|      | Tons       | Value         | Tons                     | Value         | Tons    | Value         | Tons    | Value  |
| 1920 | 188,487    | \$ 19,437,843 | 55,341a                  | \$ 6,632,383a | 133,146 | \$ 12,805,460 | a       | \$ a   |
| 1921 | 131,337    | 9,062,252     | 31,798a                  | 1,863,029a    | 99,539  | 7,199,223     | a       | a      |
| 1922 | 217,862    | 12,645,604    | 69,526a                  | 3,476,786a    | 148,336 | 9,166,818     | a       | a      |
| 1923 | 224,813    | 13,559,189    | 78,468a                  | 4,105,431a    | 146,345 | 9,453,758     | a       | a      |
| 1924 | 215,422    | 11,665,412    | 75,351                   | 3,338,681     | 140,183 | 8,331,931     | 112     | 5,200  |
| 1925 | 242,207    | 13,244,379    | 92,485                   | 4,085,518     | 149,722 | 9,158,861     | —       | —      |
| 1926 | 250,234    | 13,829,868    | 82,100                   | 3,386,330     | 168,134 | 10,443,538    | —       | —      |
| 1927 | 251,266    | 13,598,815    | 81,573                   | 3,405,508     | 169,693 | 10,193,307    | —       | —      |
| 1928 | 256,969    | 13,581,559    | 94,198                   | 3,985,693     | 162,771 | 9,595,866     | —       | —      |
| 1929 | 250,104    | 13,191,726    | 115,783                  | 5,335,259     | 134,321 | 7,856,486     | c       | 19     |
| 1930 | 175,449    | 10,274,666    | 91,030                   | 5,171,760     | 86,091  | 5,151,652     | 1,672   | 48,746 |
| 1931 | 156,489    | 7,153,530     | 82,479                   | 3,573,549     | 54,993  | 3,617,444     | 983     | 37,463 |
| 1932 | 137,234    | 6,374,320     | 98,709                   | 3,956,657     | 38,531  | 2,418,760     | 6       | 1,097  |
| 1933 | 171,236    | 6,859,680     | 111,918                  | 3,809,541     | 59,320  | 3,050,208     | 2       | 69     |
| 1934 | 205,980    | 7,963,110     | 117,943                  | 3,745,867     | 88,037  | 4,217,243     | —       | —      |
| 1935 | 236,536    | 9,119,496     | 139,582                  | 4,209,517     | 96,954  | 4,909,979     | —       | —      |
| 1936 | 273,494    | 10,234,715    | 154,095                  | 4,667,531     | 119,400 | 5,567,284     | 1       | 100    |
| 1937 | 312,741    | 12,920,977    | 189,960                  | 6,155,567     | 122,781 | 6,765,430     | d       | 20     |
| 1938 | 225,032    | 9,216,421     | 149,385                  | 4,806,769     | 76,286  | 4,435,757     | 639     | 26,105 |
| 1939 | 292,066    | 11,074,010    | 184,309                  | 5,379,191     | 108,869 | 5,741,152     | 1,112   | 46,333 |
| 1940 | 371,569    | 17,389,346    | 235,676                  | 8,236,950     | 136,052 | 9,161,716     | 159     | 9,320  |
| 1941 | 426,743    | 20,940,034    | 241,378                  | 8,372,148     | 185,365 | 12,567,886    | —       | —      |
| 1942 | 459,254    | 24,718,685    | 277,929                  | 11,825,165    | 181,325 | 12,893,520    | —       | —      |
| 1943 | 441,421    | 24,636,048    | 258,130                  | 11,119,381    | 183,291 | 13,516,667    | —       | —      |
| 1944 | 467,726    | 27,226,197    | 288,850                  | 13,362,440    | 178,876 | 13,863,757    | —       | —      |
| 1945 | 478,740    | 28,731,109    | 297,725                  | 14,360,805    | 181,015 | 14,370,304    | —       | —      |
| 1946 | 562,233    | 35,246,426    | 357,464                  | 18,247,821    | 204,769 | 16,998,605    | —       | —      |

a: Imports not available prior to 1924.

b: Estimated on basis of production plus imports minus exports.

c: 700 pounds only.

d: 900 pounds only.

Source: Dominion Bureau of Statistics.

Table 25.

## Mechanical Pulp

|      | Production |               | Apparent Consumption (b) |            | Exports |               | Imports |         |
|------|------------|---------------|--------------------------|------------|---------|---------------|---------|---------|
|      | Tons       | Value         | Tons                     | Value      | Tons    | Value         | Tons    | Value   |
| 1920 | 1,090,114  | \$ 49,890,337 | a                        | \$ a       | 304,344 | \$ 17,574,806 | a       | \$ a    |
| 1921 | 931,560    | 32,313,848    | a                        | a          | 223,494 | 9,271,712     | a       | a       |
| 1922 | 1,241,185  | 31,079,429    | a                        | a          | 314,770 | 9,400,083     | a       | a       |
| 1923 | 1,419,547  | 37,587,379    | a                        | a          | 341,107 | 11,599,323    | a       | a       |
| 1924 | 1,427,726  | 36,163,381    | 1,176,962                | 28,361,101 | 253,700 | 7,916,029     | 2,936   | 113,749 |
| 1925 | 1,621,917  | 39,130,117    | 1,263,066                | 28,601,684 | 360,204 | 10,573,273    | 1,353   | 44,840  |
| 1926 | 1,901,268  | 44,800,257    | 1,521,914                | 33,402,964 | 382,077 | 11,505,818    | 2,723   | 108,525 |
| 1927 | 1,922,124  | 44,174,811    | 1,661,645                | 36,437,822 | 260,831 | 7,761,464     | 352     | 24,475  |
| 1928 | 2,127,699  | 47,549,324    | 1,924,218                | 42,022,091 | 203,670 | 5,546,120     | 189     | 18,887  |
| 1929 | 2,420,774  | 51,617,360    | 2,211,640                | 45,734,836 | 209,332 | 5,906,638     | 198     | 24,114  |
| 1930 | 2,283,130  | 48,317,494    | 2,076,976                | 42,413,073 | 208,758 | 5,967,172     | 2,604   | 62,751  |
| 1931 | 2,016,480  | 37,096,768    | 1,851,786                | 32,497,323 | 165,098 | 4,606,167     | 404     | 6,722   |
| 1932 | 1,696,021  | 28,018,451    | 1,579,832                | 25,459,838 | 116,229 | 2,562,089     | 40      | 3,476   |
| 1933 | 1,824,553  | 25,150,963    | 1,692,559                | 22,466,458 | 132,152 | 2,688,023     | 158     | 3,518   |
| 1934 | 2,340,441  | 30,556,675    | 2,220,352                | 27,829,717 | 120,121 | 2,727,902     | 32      | 944     |
| 1935 | 2,504,595  | 32,034,716    | 2,380,657                | 29,408,820 | 124,055 | 2,631,945     | 117     | 6,049   |
| 1936 | 2,910,338  | 38,251,389    | 2,776,863                | 35,412,990 | 133,518 | 2,841,051     | 43      | 2,652   |
| 1937 | 3,308,517  | 46,144,208    | 3,142,130                | 42,028,791 | 166,802 | 4,145,552     | 415     | 30,135  |
| 1938 | 2,461,997  | 39,228,178    | 2,338,032                | 36,330,722 | 124,205 | 2,914,247     | 240     | 16,791  |
| 1939 | 2,738,011  | 43,062,396    | 2,569,380                | 38,973,434 | 168,652 | 4,090,177     | 21      | 1,215   |
| 1940 | 3,305,484  | 55,504,763    | 3,101,536                | 49,244,546 | 204,090 | 6,265,069     | 142     | 4,852   |
| 1941 | 3,494,922  | 61,327,335    | 3,227,335                | 52,614,791 | 271,162 | 8,835,808     | 3,575   | 123,331 |
| 1942 | 3,260,097  | 64,801,837    | 2,981,732                | 54,294,388 | 278,365 | 10,507,449    | —       | —       |
| 1943 | 2,998,913  | 63,426,919    | 2,726,013                | 53,358,327 | 272,900 | 10,068,592    | —       | —       |
| 1944 | 3,076,296  | 71,668,673    | 2,839,751                | 61,534,290 | 236,545 | 10,134,383    | —       | —       |
| 1945 | 3,341,920  | 86,375,001    | 3,068,767                | 74,327,944 | 273,906 | 12,101,310    | 753     | 54,253  |
| 1946 | 3,997,848  | 111,514,231   | 3,729,613                | 98,950,120 | 268,290 | 12,571,257    | 55      | 7,146   |

a: Imports not available prior to 1924.

b: Estimated on basis of production plus imports minus exports.

Source: Dominion Bureau of Statistics.

Table 26.

## Screenings — Chemical

|            | Production |            | Apparent Consumption (b) |            | Exports (a) |           |
|------------|------------|------------|--------------------------|------------|-------------|-----------|
|            | Tons       | Value      | Tons                     | Value      | Tons        | Value     |
| 1935 . . . | 28,230     | \$ 226,254 | 19,915                   | \$ 116,543 | 8,315       | \$109,711 |
| 1936 . . . | 38,504     | 305,942    | 27,710                   | 172,592    | 10,794      | 133,350   |
| 1937 . . . | 48,871     | 527,450    | 38,772                   | 360,205    | 10,099      | 167,245   |
| 1938 . . . | 22,739     | 198,939    | 20,112                   | 155,506    | 2,627       | 43,433    |
| 1939 . . . | 27,760     | 231,642    | 24,400                   | 192,911    | 3,360       | 38,731    |
| 1940 . . . | 42,741     | 434,257    | 39,725                   | 379,032    | 3,016       | 55,225    |
| 1941 . . . | 48,270     | 560,969    | 36,665                   | 331,953    | 11,605      | 229,016   |
| 1942 . . . | 51,905     | 727,736    | 40,096                   | 468,801    | 11,809      | 258,935   |
| 1943 . . . | 51,053     | 787,239    | 33,219                   | 379,227    | 17,834      | 408,012   |
| 1944 . . . | 48,826     | 803,729    | 37,706                   | 486,508    | 11,120      | 317,221   |
| 1945 . . . | 53,121     | 797,527    | 42,725                   | 487,527    | 10,396      | 310,000   |
| 1946 . . . | 66,277     | 1,268,027  | 54,951                   | 877,146    | 11,326      | 390,881   |

a: Estimated on basis of known quantity and value "made for export" prior to 1946.

b: Estimated on basis of production minus exports.

Source: Dominion Bureau of Statistics.

Table 27.

## Screenings — Mechanical

|            | Tons Production |            | Value  |            | Tons Apparent Consumption (b) |           | Value |       | Tons Exports (a) |       | Value |       |
|------------|-----------------|------------|--------|------------|-------------------------------|-----------|-------|-------|------------------|-------|-------|-------|
|            | Tons            | Value      | Tons   | Value      | Tons                          | Value     | Tons  | Value | Tons             | Value | Tons  | Value |
| 1935 . . . | 59,116          | \$ 289,104 | 48,491 | \$ 217,175 | 10,625                        | \$ 71,929 |       |       |                  |       |       |       |
| 1936 . . . | 73,944          | 423,103    | 61,272 | 320,853    | 12,672                        | 102,250   |       |       |                  |       |       |       |
| 1937 . . . | 76,227          | 519,551    | 62,676 | 374,188    | 13,551                        | 145,363   |       |       |                  |       |       |       |
| 1938 . . . | 58,741          | 479,301    | 53,133 | 423,571    | 5,608                         | 55,730    |       |       |                  |       |       |       |
| 1939 . . . | 58,082          | 467,971    | 51,352 | 399,117    | 6,730                         | 68,854    |       |       |                  |       |       |       |
| 1940 . . . | 62,725          | 512,784    | 58,507 | 451,131    | 4,218                         | 61,653    |       |       |                  |       |       |       |
| 1941 . . . | 55,363          | 422,520    | 48,189 | 354,339    | 7,174                         | 88,181    |       |       |                  |       |       |       |
| 1942 . . . | 48,021          | 407,032    | 41,036 | 323,913    | 6,985                         | 83,119    |       |       |                  |       |       |       |
| 1943 . . . | 34,838          | 294,784    | 28,785 | 245,482    | 6,053                         | 49,302    |       |       |                  |       |       |       |
| 1944 . . . | 36,846          | 428,558    | 32,872 | 387,684    | 3,974                         | 40,874    |       |       |                  |       |       |       |
| 1945 . . . | 38,953          | 348,424    | 34,388 | 306,599    | 4,565                         | 41,825    |       |       |                  |       |       |       |
| 1946 . . . | 68,876          | 863,096    | 61,082 | 700,505    | 7,794                         | 162,591   |       |       |                  |       |       |       |

a: Estimated on basis of known quantity and value "made for export" prior to 1946.

b: Estimated on basis of production minus exports.

Source: Dominion Bureau of Statistics.

Table 28.

## Mechanical Pulp Utilization.

| Year       | Production |             | Made for own use |            | Made for export |            | Made for domestic sale |           |
|------------|------------|-------------|------------------|------------|-----------------|------------|------------------------|-----------|
|            | Tons       | \$          | Tons             | \$         | Tons            | \$         | Tons                   | \$        |
| 1920 . . . | 1,090,114  | 49,890,337  | 702,519          | 23,505,693 | 280,516         | 19,958,761 | 107,079                | 6,425,883 |
| 1921 . . . | 931,560    | 32,313,848  | 643,164          | 20,267,227 | 255,680         | 10,837,011 | 32,716                 | 1,209,610 |
| 1922 . . . | 1,241,185  | 31,079,429  | 888,783          | 20,540,929 | 304,590         | 9,222,381  | 47,812                 | 1,316,119 |
| 1923 . . . | 1,419,547  | 37,587,379  | 1,024,051        | 23,904,778 | 353,352         | 12,295,143 | 42,144                 | 1,387,458 |
| 1924 . . . | 1,427,726  | 36,163,381  | 1,088,877        | 26,064,031 | 265,083         | 7,921,074  | 73,766                 | 2,178,276 |
| 1925 . . . | 1,621,917  | 39,130,117  | 1,211,558        | 27,492,409 | 335,962         | 9,593,020  | 74,397                 | 2,044,688 |
| 1926 . . . | 1,901,268  | 44,800,257  | 1,471,982        | 33,190,921 | 402,228         | 10,913,798 | 27,058                 | 695,538   |
| 1927 . . . | 1,922,124  | 44,174,811  | 1,665,859        | 37,421,874 | 241,358         | 6,347,800  | 14,907                 | 405,137   |
| 1928 . . . | 2,127,699  | 47,549,324  | 1,926,063        | 42,641,890 | 190,545         | 4,611,424  | 11,091                 | 296,010   |
| 1929 . . . | 2,420,774  | 51,617,360  | 2,179,035        | 45,662,246 | 221,598         | 5,392,698  | 20,141                 | 562,416   |
| 1930 . . . | 2,283,130  | 48,317,494  | 2,049,581        | 42,504,632 | 217,182         | 5,418,702  | 16,367                 | 394,160   |
| 1931 . . . | 2,016,480  | 37,096,768  | 1,822,083        | 32,655,912 | 186,082         | 4,224,234  | 8,315                  | 216,622   |
| 1932 . . . | 1,696,021  | 28,018,451  | 1,551,703        | 25,238,000 | 130,377         | 2,510,950  | 13,941                 | 269,501   |
| 1933 . . . | 1,824,553  | 25,150,963  | 1,667,921        | 22,557,925 | 142,154         | 2,324,549  | 14,478                 | 268,489   |
| 1934 . . . | 2,340,441  | 30,556,675  | 2,184,522        | 27,702,260 | 145,441         | 2,643,403  | 10,478                 | 211,012   |
| 1935 . . . | 2,504,595  | 32,034,716  | 2,353,055        | 29,457,426 | 140,819         | 2,375,395  | 10,721                 | 201,895   |
| 1936 . . . | 2,910,338  | 38,251,389  | 2,743,712        | 35,253,678 | 157,462         | 2,798,240  | 9,164                  | 199,471   |
| 1937 . . . | 3,308,517  | 46,144,208  | 3,122,677        | 42,173,942 | 174,856         | 3,714,485  | 10,984                 | 255,781   |
| 1938 . . . | 2,461,997  | 39,228,178  | 2,301,546        | 35,870,198 | 152,175         | 3,154,105  | 8,276                  | 203,875   |
| 1939 . . . | 2,738,011  | 43,062,396  | 2,557,172        | 38,948,923 | 169,615         | 3,843,272  | 11,224                 | 270,201   |
| 1940 . . . | 3,305,484  | 55,504,763  | 3,068,875        | 48,709,161 | 219,156         | 6,280,828  | 17,453                 | 514,774   |
| 1941 . . . | 3,494,922  | 61,327,268  | 3,204,132        | 52,246,938 | 270,744         | 8,458,142  | 20,046                 | 622,188   |
| 1942 . . . | 3,260,097  | 64,801,837  | 2,958,683        | 54,293,231 | 285,134         | 10,020,256 | 16,280                 | 488,350   |
| 1943 . . . | 2,998,913  | 63,426,919  | 2,761,063        | 54,548,106 | 227,082         | 8,503,813  | 10,768                 | 375,000   |
| 1944 . . . | 3,076,296  | 71,668,673  | 2,842,316        | 62,207,170 | 222,944         | 9,082,705  | 11,036                 | 378,798   |
| 1945 . . . | 3,341,920  | 86,375,001  | 3,058,254        | 74,383,799 | 272,048         | 11,569,715 | 11,618                 | 421,487   |
| 1946 . . . | 3,997,848  | 111,514,231 | 3,712,324        | 97,612,211 | 267,273         | 13,170,735 | 18,251                 | 731,285   |

Note: Tonnage "made for export" differs slightly from actual exports.

Source: Dominion Bureau of Statistics.

Table 29.

## Bleached Sulphite Pulp Utilization

| Year            | Production |            | All grades       |           | Made for export |            | Made for domestic sale |           |
|-----------------|------------|------------|------------------|-----------|-----------------|------------|------------------------|-----------|
|                 | Tons       | \$         | Made for own use |           | Tons            | \$         | Tons                   | \$        |
| 1920            | 138,624    | 21,301,465 | 3,630            | 471,323   | 98,924          | 15,191,918 | 36,070                 | 5,638,224 |
| 1921            | 154,804    | 14,481,158 | 43,291           | 3,323,989 | 95,471          | 9,424,191  | 16,042                 | 1,732,978 |
| 1922            | 146,690    | 11,691,904 | 7,248            | 575,791   | 66,072          | 4,822,035  | 73,370                 | 6,294,078 |
| 1923            | 189,935    | 15,307,069 | 10,004           | 770,537   | 62,937          | 4,718,206  | 116,994                | 9,818,326 |
| 1924            | 200,764    | 14,653,587 | 14,355           | 1,085,957 | 63,495          | 4,467,518  | 122,914                | 9,100,112 |
| 1925            | 227,465    | 16,981,584 | 18,817           | 1,397,013 | 188,225         | 14,010,078 | 20,423                 | 1,574,493 |
| 1926            | 256,868    | 19,645,060 | 20,893           | 1,466,456 | 209,132         | 16,087,135 | 26,843                 | 2,091,469 |
| 1927            | 289,313    | 21,087,792 | 22,228           | 1,587,816 | 240,388         | 17,433,858 | 26,697                 | 2,066,118 |
| 1928            | 304,769    | 22,451,771 | 26,906           | 1,943,274 | 248,876         | 18,283,405 | 28,987                 | 2,225,092 |
| 1929            | 324,548    | 23,814,234 | 22,953           | 1,594,513 | 261,982         | 19,191,199 | 39,613                 | 3,028,522 |
| 1930            | 293,394    | 19,619,367 | 20,624           | 1,355,956 | 250,590         | 16,718,331 | 22,180                 | 1,545,080 |
| 1931            | 301,357    | 16,978,118 | 22,932           | 1,385,381 | 256,225         | 14,217,203 | 22,200                 | 1,375,534 |
| 1932            | 256,478    | 13,081,700 | 21,600           | 1,217,878 | 197,887         | 9,986,973  | 36,991                 | 1,876,849 |
| 1933            | 335,812    | 16,109,572 | 21,330           | 1,049,613 | 298,807         | 13,351,247 | 35,675                 | 1,708,712 |
| 1934            | 340,262    | 18,034,000 | 21,953           | 1,134,018 | 282,950         | 14,923,285 | 35,359                 | 1,976,697 |
| 1935            | 374,157    | 19,551,605 | 26,422           | 1,324,147 | 306,880         | 16,005,916 | 40,855                 | 2,221,542 |
| 1936            | 429,714    | 22,259,923 | 27,930           | 1,442,039 | 350,598         | 18,171,792 | 51,186                 | 2,646,092 |
| 1937            | 459,041    | 27,135,378 | 31,138           | 1,625,488 | 376,816         | 22,408,866 | 51,087                 | 3,101,024 |
| 1938            | 304,834    | 18,818,095 | 32,565           | 1,679,016 | 229,222         | 14,693,602 | 43,047                 | 2,445,477 |
| 1939            | 404,268    | 21,284,125 | 38,917           | 1,877,350 | 312,490         | 16,748,534 | 52,861                 | 2,658,241 |
| 1940            | 543,987    | 36,576,496 | 47,429           | 2,713,333 | 430,498         | 29,534,721 | 66,060                 | 4,328,442 |
| 1941            | 550,812    | 43,408,549 | 50,500           | 2,880,325 | 471,819         | 35,759,039 | 68,493                 | 4,769,185 |
| 1942            | 597,316    | 43,809,756 | 53,071           | 3,208,471 | 464,708         | 34,956,661 | 79,537                 | 5,644,624 |
| 1943            | 587,538    | 44,994,159 | 50,636           | 3,196,336 | 456,772         | 35,970,277 | 80,130                 | 5,827,546 |
| Dissolving Pulp |            |            |                  |           |                 |            |                        |           |
| 1944            | 235,417    | 21,198,634 | —                | —         | 216,754         | 19,556,214 | 18,663                 | 1,642,420 |
| 1945            | 244,826    | 22,025,991 | —                | —         | 210,570         | 20,093,763 | 23,256                 | 1,932,228 |
| 1946            | 271,563    | 29,401,676 | —                | —         | 252,811         | 27,586,624 | 18,752                 | 1,815,052 |
| Paper Pulp      |            |            |                  |           |                 |            |                        |           |
| 1944            | 350,282    | 27,568,590 | 58,001           | 3,875,298 | 230,536         | 19,161,223 | 61,745                 | 4,532,069 |
| 1945            | 370,103    | 28,893,581 | 59,215           | 3,977,471 | 242,335         | 20,280,140 | 68,553                 | 4,635,970 |
| 1946            | 345,234    | 29,457,948 | 60,672           | 4,717,451 | 210,053         | 19,179,403 | 74,509                 | 5,561,094 |

Note: Tonnage "made for export" differs slightly from actual exports.

Source: Dominion Bureau of Statistics.

Table 30.

## Unbleached Sulphite Pulp Utilization

| Year         | Production |            | All grades       |            | Made for export |            | Made for domestic sale |           |
|--------------|------------|------------|------------------|------------|-----------------|------------|------------------------|-----------|
|              | Tons       | \$         | Made for own use |            | Tons            | \$         | Tons                   | \$        |
| 1920         | 515,649    | 48,778,369 | 199,507          | 13,210,198 | 235,148         | 26,871,141 | 80,994                 | 8,697,030 |
| 1921         | 322,125    | 22,002,694 | 155,504          | 10,125,712 | 125,564         | 8,794,289  | 41,057                 | 3,082,693 |
| 1922         | 532,188    | 29,222,369 | 242,832          | 12,189,239 | 205,484         | 11,470,986 | 83,872                 | 5,562,144 |
| 1923         | 595,891    | 31,704,333 | 300,879          | 14,946,551 | 256,946         | 14,642,292 | 38,066                 | 2,115,490 |
| 1924         | 567,271    | 26,829,927 | 317,289          | 14,296,723 | 199,946         | 10,041,802 | 50,036                 | 2,491,402 |
| 1925         | 615,320    | 29,670,655 | 342,556          | 15,946,841 | 238,680         | 12,046,571 | 34,084                 | 1,677,243 |
| 1926         | 738,235    | 35,406,932 | 441,178          | 20,081,548 | 239,274         | 12,273,559 | 57,783                 | 3,051,825 |
| 1927         | 726,747    | 33,803,631 | 477,703          | 21,112,051 | 200,701         | 10,276,753 | 48,343                 | 2,414,827 |
| 1928         | 812,458    | 35,359,990 | 568,728          | 24,083,077 | 200,739         | 9,388,709  | 42,991                 | 1,888,204 |
| 1929         | 911,684    | 38,144,801 | 662,541          | 26,833,383 | 198,257         | 9,003,690  | 50,886                 | 2,307,728 |
| 1930         | 783,410    | 32,494,078 | 562,351          | 22,609,783 | 184,357         | 8,204,866  | 36,702                 | 1,679,429 |
| 1931         | 640,222    | 22,433,990 | 484,372          | 16,685,105 | 127,768         | 4,655,237  | 28,082                 | 1,093,648 |
| 1932         | 512,593    | 16,174,624 | 423,420          | 13,295,206 | 68,926          | 2,131,936  | 20,247                 | 747,482   |
| 1933         | 553,801    | 15,070,885 | 420,254          | 11,253,461 | 101,697         | 2,832,123  | 31,580                 | 985,301   |
| 1934         | 650,380    | 17,933,546 | 514,888          | 13,260,916 | 101,424         | 3,545,144  | 34,068                 | 1,127,486 |
| 1935         | 644,820    | 17,546,789 | 510,718          | 13,148,182 | 96,794          | 3,196,209  | 37,308                 | 1,202,398 |
| 1936         | 759,213    | 19,900,576 | 593,082          | 15,101,762 | 105,843         | 3,440,025  | 40,288                 | 1,358,789 |
| 1937         | 914,191    | 28,355,232 | 680,272          | 18,387,452 | 181,543         | 8,219,273  | 52,376                 | 1,748,507 |
| 1938         | 575,265    | 19,037,310 | 448,196          | 14,122,812 | 88,216          | 3,503,632  | 38,851                 | 1,410,866 |
| 1939         | 624,552    | 19,998,275 | 471,622          | 14,295,782 | 109,707         | 4,175,986  | 43,223                 | 1,526,507 |
| 1940         | 936,558    | 36,941,108 | 583,996          | 19,349,378 | 302,723         | 15,521,265 | 49,839                 | 2,070,465 |
| 1941         | 1,073,704  | 46,797,067 | 607,581          | 20,602,150 | 413,496         | 23,802,433 | 52,627                 | 2,392,484 |
| 1942         | 1,156,137  | 55,524,053 | 553,291          | 20,479,162 | 554,653         | 32,745,486 | 48,193                 | 2,299,405 |
| 1943         | 1,125,033  | 58,076,395 | 500,925          | 19,991,947 | 578,824         | 35,781,920 | 45,284                 | 2,302,528 |
| Strong Grade |            |            |                  |            |                 |            |                        |           |
| 1944         | 232,634    | 15,332,609 | 38,353           | 1,885,403  | 185,984         | 12,941,871 | 8,297                  | 505,335   |
| 1945         | 246,020    | 16,744,422 | 33,888           | 1,814,052  | 196,108         | 14,018,841 | 16,024                 | 911,529   |
| 1946         | 271,026    | 20,734,898 | 37,497           | 2,152,375  | 216,597         | 17,389,919 | 16,932                 | 1,192,604 |
| News Grade   |            |            |                  |            |                 |            |                        |           |
| 1944         | 791,296    | 44,559,058 | 415,496          | 18,548,309 | 338,455         | 24,102,446 | 37,345                 | 1,908,303 |
| 1945         | 780,735    | 45,170,040 | 484,345          | 23,478,246 | 275,497         | 20,050,133 | 29,893                 | 1,650,670 |
| 1946         | 942,194    | 55,266,050 | 662,899          | 34,513,585 | 231,994         | 18,006,804 | 47,301                 | 2,745,661 |

Note: Tonnage "made for export" differs slightly from actual exports.

Source: Dominion Bureau of Statistics.

Table 31.

## Sulphate Pulp Utilization

| Year | Production |            | Made for own use |            | Made for export |            | Made for domestic sale |           |
|------|------------|------------|------------------|------------|-----------------|------------|------------------------|-----------|
|      | Tons       | \$         | Tons             | \$         | Tons            | \$         | Tons                   | \$        |
| 1920 | 188,487    | 19,437,843 | 51,041           | 4,058,745  | 132,468         | 14,795,631 | 4,978                  | 583,467   |
| 1921 | 131,337    | 9,062,252  | 24,903           | 1,990,272  | 101,461         | 6,813,671  | 4,973                  | 258,309   |
| 1922 | 217,862    | 12,643,604 | 48,611           | 2,875,567  | 156,499         | 9,120,541  | 12,752                 | 647,496   |
| 1923 | 224,813    | 13,559,189 | 52,803           | 2,886,829  | 162,200         | 10,065,224 | 9,810                  | 607,136   |
| 1924 | 215,422    | 11,665,412 | 53,615           | 2,642,705  | 153,661         | 8,572,496  | 8,146                  | 450,211   |
| 1925 | 241,252    | 13,244,379 | 57,218           | 2,686,666  | 174,640         | 10,044,519 | 9,394                  | 513,194   |
| 1926 | 250,234    | 13,829,868 | 58,771           | 2,697,736  | 183,017         | 10,616,841 | 8,446                  | 515,291   |
| 1927 | 251,266    | 13,598,815 | 62,415           | 2,849,904  | 178,039         | 10,126,434 | 10,812                 | 622,477   |
| 1928 | 256,969    | 13,581,559 | 68,853           | 3,038,540  | 175,315         | 9,835,215  | 12,801                 | 707,804   |
| 1929 | 250,104    | 13,191,726 | 80,705           | 3,720,054  | 144,412         | 8,194,428  | 24,987                 | 1,277,244 |
| 1930 | 175,449    | 10,274,666 | 68,219           | 3,390,860  | 95,369          | 6,223,148  | 11,861                 | 660,658   |
| 1931 | 136,489    | 7,153,530  | 66,595           | 3,030,078  | 56,738          | 3,379,939  | 13,156                 | 743,513   |
| 1932 | 137,234    | 6,374,320  | 72,527           | 2,921,526  | 45,728          | 2,583,940  | 18,979                 | 869,054   |
| 1933 | 171,236    | 6,859,680  | 82,647           | 2,714,549  | 65,921          | 3,126,646  | 22,668                 | 1,018,485 |
| 1934 | 205,980    | 7,963,110  | 99,133           | 2,904,586  | 84,548          | 3,975,192  | 22,299                 | 1,083,332 |
| 1935 | 236,536    | 9,119,496  | 108,635          | 3,105,874  | 97,551          | 4,627,928  | 30,350                 | 1,385,694 |
| 1936 | 273,494    | 10,234,715 | 125,386          | 3,406,156  | 116,000         | 5,388,004  | 32,108                 | 1,440,555 |
| 1937 | 312,741    | 12,920,977 | 152,918          | 4,295,794  | 125,790         | 6,882,697  | 34,033                 | 1,742,486 |
| 1938 | 225,032    | 9,216,421  | 119,817          | 3,831,693  | 77,583          | 4,038,182  | 27,632                 | 1,346,546 |
| 1939 | 292,066    | 11,074,010 | 154,755          | 4,650,666  | 104,797         | 4,905,738  | 32,514                 | 1,517,606 |
| 1940 | 371,569    | 17,389,346 | 191,734          | 6,080,775  | 138,388         | 9,021,053  | 41,447                 | 2,287,518 |
| 1941 | 426,743    | 20,940,034 | 215,456          | 7,175,462  | 167,166         | 11,144,647 | 44,121                 | 2,619,925 |
| 1942 | 459,254    | 24,718,685 | 225,481          | 8,282,287  | 181,089         | 13,254,331 | 52,684                 | 3,182,067 |
| 1943 | 441,421    | 24,636,048 | 211,988          | 8,494,224  | 182,410         | 13,462,641 | 47,023                 | 2,679,183 |
| 1944 | 467,726    | 27,226,197 | 242,405          | 10,747,651 | 179,313         | 13,981,790 | 46,008                 | 2,496,756 |
| 1945 | 478,740    | 28,731,109 | 249,816          | 11,786,501 | 182,189         | 14,264,401 | 46,735                 | 2,680,207 |
| 1946 | 562,233    | 35,246,426 | 318,258          | 15,579,086 | 201,913         | 16,907,709 | 42,062                 | 2,759,631 |

Note: Tonnage "made for export" differs slightly from actual exports.

Source: Dominion Bureau of Statistics.

Table 32.

## Destination of Pulp Exports

| To:            | Sulphite |         | Tons    | Sulphate |      |
|----------------|----------|---------|---------|----------|------|
|                | 1946     | 1945    |         | 1946     | 1945 |
| United States  | 789,638  | 697,136 | 193,480 | 147,800  |      |
| British Empire | 100,081  | 229,585 | 10,233  | 32,236   |      |
| Latin America  | 13,913   | 14,587  | 278     | 979      |      |
| Europe         | 2,289    | 1,566   | 278     | 0        |      |
| Asia           | 791      | 0       | 500     | 0        |      |
|                | 906,712  | 942,874 | 204,769 | 181,015  |      |

Source: Dominion Bureau of Statistics.

Table 33.

## Average Values of U.S. Pulp Imports

| Per ton | Bleached Sulphite |         | Unbleached Sulphite |         | Soda    | Mechanical |
|---------|-------------------|---------|---------------------|---------|---------|------------|
|         | \$69.52           | \$49.83 | \$58.65             | \$54.13 |         |            |
| 1927    | 67.76             | 45.41   | 54.74               | 49.58   | nil     | \$24.27    |
| 1928    | 67.69             | 44.97   | 66.24               | 47.71   | nil     | 21.84      |
| 1929    | 62.83             | 44.56   | 67.13               | 41.08   | \$58.44 | 23.88      |
| 1930    | 52.81             | 38.02   | 68.19               | 31.18   | 48.39   | 21.34      |
| 1931    | 42.27             | 29.96   | 75.50               | 28.22   | 37.29   | 17.34      |
| 1932    | 42.65             | 27.70   | 57.39               | 24.29   | 34.85   | 15.28      |
| 1933    | 48.75             | 32.27   | 61.68               | 28.53   | 40.82   | 17.14      |
| 1934    | 51.08             | 34.67   | 61.35               | 30.18   | 43.50   | 17.24      |
| 1935    | 50.42             | 34.04   | 57.09               | 31.10   | 44.40   | 17.79      |
| 1936    | 57.51             | 37.69   | 62.71               | 35.78   | 51.92   | 19.88      |
| 1937    | 59.53             | 39.11   | 60.59               | 38.11   | 49.29   | 22.66      |
| 1938    | 51.17             | 35.38   | 52.14               | 31.07   | 45.62   | 22.88      |
| 1939    | 65.82             | 44.60   | 68.23               | 40.68   | 55.70   | 27.57      |
| 1940    | 71.90             | 54.02   | 80.51               | 58.16   | 60.51   | 28.23      |
| 1941    | 72.86             | 56.09   | 84.55               | 61.08   | 60.26   | 34.57      |
| 1942    | 74.99             | 57.89   | 85.72               | 62.94   | 65.59   | 32.28      |
| 1943    | 84.29             | 65.99   | 85.85               | 66.77   | 71.68   | 38.31      |
| 1944    | 84.21             | 65.05   | 80.83               | 62.42   | 75.57   | 39.75      |
| 1945    | 97.23             | 74.29   | 91.31               | 69.72   | 83.15   | 45.78      |

Source: United States Pulp Producers Association.

Table 34.

## Canadian Pulp in U.S. Market

The following figures cover all grades of pulp including mechanical and screenings. Over the war years imports of mechanical pulp by the United States have averaged some 17 per cent of total pulp imports.

| Tons | U.S. Pulp Production | Total U.S. Imports | U.S. Imports from Canada | U.S. Exports | U.S. Net Imports |
|------|----------------------|--------------------|--------------------------|--------------|------------------|
| 1925 | 3,962,217            | 1,663,614          | 880,453                  | 37,995       | 1,625,619        |
| 1926 | 4,394,766            | 1,731,413          | 864,333                  | 34,220       | 1,697,193        |
| 1927 | 4,313,403            | 1,675,768          | 778,999                  | 32,006       | 1,643,762        |
| 1928 | 4,510,800            | 1,754,963          | 784,981                  | 33,484       | 1,721,479        |
| 1929 | 4,862,885            | 1,880,728          | 796,945                  | 54,066       | 1,826,662        |
| 1930 | 4,630,308            | 1,830,217          | 735,864                  | 48,426       | 1,781,791        |
| 1931 | 4,409,344            | 1,596,421          | 550,127                  | 53,308       | 1,543,113        |
| 1932 | 3,760,267            | 1,481,760          | 425,326                  | 47,860       | 1,433,900        |
| 1933 | 4,276,204            | 1,941,576          | 550,871                  | 79,193       | 1,862,383        |
| 1934 | 4,436,128            | 1,805,972          | 541,728                  | 142,931      | 1,663,041        |
| 1935 | 4,925,669            | 1,933,249          | 541,078                  | 171,710      | 1,761,539        |
| 1936 | 5,695,219            | 2,277,500          | 670,962                  | 193,485      | 2,084,015        |
| 1937 | 6,572,918            | 2,394,605          | 712,238                  | 322,544      | 2,072,061        |
| 1938 | 5,933,560            | 1,710,393          | 467,323                  | 140,484      | 1,569,909        |
| 1939 | 6,993,334            | 2,026,441          | 637,953                  | 139,504      | 1,886,937        |
| 1940 | 8,959,559            | 1,224,570          | 828,307                  | 480,938      | 743,632          |
| 1941 | 10,375,422           | 1,157,886          | 1,130,624                | 328,608      | 829,278          |
| 1942 | 10,783,430           | 1,236,519          | 1,210,960                | 378,148      | 858,371          |
| 1943 | 9,680,462            | 1,305,549          | 1,279,886                | 300,700      | 1,004,849        |
| 1944 | 10,108,443           | 1,071,838          | 1,071,788                | 218,401      | 853,437          |
| 1945 | 10,167,200           | 1,754,065          | 1,079,014                | 135,997      | 1,618,068        |
| 1946 | 10,606,527           | 1,794,669          | 1,235,466                | 39,361       | 1,755,308        |

Source: United States Pulp Producers Association.

Table 35.

## World Pulp Figures — 1946

|                 | In 000's of short tons |         |         |
|-----------------|------------------------|---------|---------|
|                 | Production             | Imports | Exports |
| Canada          | 6,555                  | 14      | 1,419   |
| Newfoundland    | 419                    | 0       | 48      |
| United States   | 10,606                 | 1,795   | 39      |
|                 | 17,580                 | 1,809   | 1,506   |
| Finland         | 1,320                  | 0       | 606     |
| Norway          | 504                    | 63      | 184     |
| Sweden          | 2,957                  | 0       | 1,980   |
|                 | 4,781                  | 63      | 2,770   |
| Other countries | 3,639*                 | 2,528*  | 124*    |
|                 | 26,000*                | 4,400*  | 4,400*  |

\* Estimate.

Source: United States Pulp Producers Association.

# "D" — NEWSPRINT

Table 36.  
Production and Exports of Newsprint

In 000's of Short Tons of 2,000 Pounds

|      | Canadian<br>Production<br>(a) | To<br>United<br>States | To<br>United<br>King-<br>dom | To<br>Austra-<br>lia | To<br>Other<br>Coun-<br>tries | Total<br>ex-<br>ports | Bal-<br>ance (b) |
|------|-------------------------------|------------------------|------------------------------|----------------------|-------------------------------|-----------------------|------------------|
| 1919 | 795                           | 623                    | 16                           | 36                   | 33                            | 708                   | 87               |
| 1920 | 876                           | 670                    | 11                           | 39                   | 42                            | 762                   | 114              |
| 1921 | 805                           | 655                    | ..                           | 26                   | 28                            | 709                   | 96               |
| 1922 | 1,081                         | 888                    | 14                           | 33                   | 25                            | 960                   | 121              |
| 1923 | 1,252                         | 1,115                  | ..                           | 7                    | 16                            | 1,138                 | 114              |
| 1924 | 1,388                         | 1,193                  | 6                            | 1                    | 19                            | 1,219                 | 169              |
| 1925 | 1,537                         | 1,321                  | 20                           | 8                    | 53                            | 1,402                 | 135              |
| 1926 | 1,889                         | 1,628                  | 15                           | 31                   | 58                            | 1,732                 | 157              |
| 1927 | 2,083                         | 1,748                  | 42                           | 46                   | 46                            | 1,882                 | 201              |
| 1928 | 2,414                         | 1,935                  | 131                          | 49                   | 92                            | 2,207                 | 207              |
| 1929 | 2,725                         | 2,173                  | 178                          | 63                   | 101                           | 2,515                 | 210              |
| 1930 | 2,498                         | 2,008                  | 134                          | 45                   | 146                           | 2,333                 | 165              |
| 1931 | 2,227                         | 1,753                  | 104                          | 30                   | 121                           | 2,008                 | 219              |
| 1932 | 1,919                         | 1,520                  | 82                           | 39                   | 136                           | 1,777                 | 142              |
| 1933 | 2,022                         | 1,520                  | 107                          | 58                   | 153                           | 1,838                 | 184              |
| 1934 | 2,605                         | 1,960                  | 84                           | 100                  | 270                           | 2,414                 | 191              |
| 1935 | 2,765                         | 2,052                  | 115                          | 108                  | 300                           | 2,575                 | 190              |
| 1936 | 3,225                         | 2,399                  | 94                           | 179                  | 321                           | 2,993                 | 232              |
| 1937 | 3,674                         | 2,899                  | 148                          | 118                  | 290                           | 3,455                 | 219              |
| 1938 | 2,669                         | 1,938                  | 172                          | 178                  | 137                           | 2,425                 | 244              |
| 1939 | 2,927                         | 2,206                  | 177                          | 131                  | 145                           | 2,659                 | 268              |
| 1940 | 3,504                         | 2,586                  | 145                          | 164                  | 348                           | 3,243                 | 261              |
| 1941 | 3,520                         | 2,762                  | 94                           | 73                   | 333                           | 3,262                 | 258              |
| 1942 | 3,257                         | 2,792                  | 35                           | 7                    | 171                           | 3,005                 | 252              |
| 1943 | 3,046                         | 2,545                  | 30                           | 22                   | 213                           | 2,810                 | 236              |
| 1944 | 3,040                         | 2,409                  | 42                           | 81                   | 274                           | 2,806                 | 234              |
| 1945 | 3,324                         | 2,534                  | 106                          | 90                   | 329                           | 3,059                 | 265              |
| 1946 | 4,162                         | 3,323                  | 83                           | 135                  | 317                           | 3,858                 | 304              |

- (a) Production figures include relatively small quantities of hanging paper, poster paper, and side runs for pulping.  
(b) Balance consists of Canada's home consumption, plus or minus changes in stocks held by manufacturers and distortion caused by irregular freight movement at successive year ends.

Source: Dominion Bureau of Statistics.

The following figures of the Newsprint Association of Canada covering only newsprint indicate more clearly the relationship between production and domestic and export markets:

|      | Canadian<br>Production | — FROM CANADIAN MILLS TO:— |           |          |
|------|------------------------|----------------------------|-----------|----------|
|      |                        | Canada                     | U.S.A.    | Overseas |
| 1933 | 2,012,065              | 148,059                    | 1,585,176 | 292,879  |
| 1934 | 2,597,298              | 173,082                    | 1,993,798 | 429,123  |
| 1935 | 2,750,850              | 199,689                    | 2,008,596 | 526,574  |
| 1936 | 3,209,016              | 194,240                    | 2,434,585 | 619,129  |
| 1937 | 3,647,800              | 219,553                    | 2,909,360 | 525,756  |
| 1938 | 2,624,580              | 159,197                    | 1,881,020 | 475,779  |
| 1939 | 2,869,266              | 189,482                    | 2,194,126 | 477,594  |
| 1940 | 3,418,803              | 183,894                    | 2,594,452 | 657,588  |
| 1941 | 3,425,865              | 196,766                    | 2,770,002 | 487,897  |
| 1942 | 3,177,102              | 202,536                    | 2,810,839 | 195,312  |
| 1943 | 2,982,797              | 192,820                    | 2,549,759 | 266,807  |
| 1944 | 2,991,782              | 187,227                    | 2,429,658 | 383,723  |
| 1945 | 3,259,208              | 200,249                    | 2,544,116 | 491,054  |
| 1946 | 4,143,392              | 247,077                    | 3,354,644 | 534,257  |

Table 37.  
Canadian Newsprint in Relation to Other  
Sources of U.S. Imports.

In 000's of Short Tons of 2,000 Pounds

|      | Total<br>U.S.<br>Imports | From<br>Canada<br>% of<br>Total | From<br>Nfld.<br>% of<br>Total | From<br>Europe<br>% of<br>Total |
|------|--------------------------|---------------------------------|--------------------------------|---------------------------------|
| 1913 | 220                      | 219                             | 99.5                           | 1                               |
| 1914 | 315                      | 310                             | 98.4                           | 5                               |
| 1915 | 358                      | 367                             | 99.7                           | 1                               |
| 1916 | 468                      | 468                             | 100.0                          | ..                              |
| 1917 | 559                      | 558                             | 99.8                           | 1                               |
| 1918 | 596                      | 596                             | 100.0                          | ..                              |
| 1919 | 631                      | 628                             | 99.5                           | 3                               |
| 1920 | 730                      | 679                             | 93.0                           | 50                              |
| 1921 | 792                      | 657                             | 83.0                           | 135                             |
| 1922 | 1,029                    | 896                             | 87.1                           | 133                             |
| 1923 | 1,309                    | 1,109                           | 84.7                           | 200                             |
| 1924 | 1,357                    | 1,197                           | 88.2                           | 156                             |
| 1925 | 1,448                    | 1,295                           | 89.4                           | 153                             |
| 1926 | 1,852                    | 1,658                           | 89.6                           | 194                             |
| 1927 | 1,987                    | 1,776                           | 89.5                           | 211                             |
| 1928 | 2,156                    | 1,926                           | 89.3                           | 230                             |
| 1929 | 2,423                    | 2,195                           | 90.7                           | 228                             |
| 1930 | 2,279                    | 1,989                           | 87.2                           | 290                             |
| 1931 | 2,065                    | 1,754                           | 84.9                           | 311                             |
| 1932 | 1,791                    | 1,533                           | 85.6                           | 258                             |
| 1933 | 1,793                    | 1,545                           | 86.2                           | 248                             |
| 1934 | 2,210                    | 1,956                           | 88.5                           | 254                             |
| 1935 | 2,383                    | 2,062                           | 86.5                           | 321                             |
| 1936 | 2,752                    | 2,422                           | 88.0                           | 330                             |
| 1937 | 3,317                    | 2,900                           | 87.4                           | 417                             |
| 1938 | 2,274                    | 1,963                           | 86.3                           | 311                             |
| 1939 | 2,615                    | 2,206                           | 84.4                           | 409                             |
| 1940 | 2,763                    | 2,605                           | 94.3                           | 158                             |
| 1941 | 2,982                    | 2,760                           | 92.6                           | 222                             |
| 1942 | 2,921                    | 2,779                           | 95.2                           | 142                             |
| 1943 | 2,637                    | 2,535                           | 96.1                           | 102                             |
| 1944 | 2,491                    | 2,395                           | 86.2                           | 96                              |
| 1945 | 2,669                    | 2,527                           | 94.7                           | 142                             |
| 1946 | 3,490                    | 3,272                           | 93.7                           | 218                             |

Source: News Print Service Bureau.

Table 38.

Newsprint Available for Consumption  
in the United States

In 000's of Short Tons of 200 Pounds

|      | Domestic<br>Production | Imports | Exports | Available<br>for<br>Consumption | Apparent<br>Consumption | Per Capita<br>Consumption<br># (lbs.) |
|------|------------------------|---------|---------|---------------------------------|-------------------------|---------------------------------------|
| 1890 | 196                    | ..      | ..      | 196                             | ..                      | 8                                     |
| 1899 | 596                    | ..      | 49      | 478                             | ..                      | 15                                    |
| 1904 | 913                    | 2       | 46      | 743                             | ..                      | 19                                    |
| 1909 | 1,176                  | 19      | 36      | 1,153                           | ..                      | 25                                    |
| 1913 | 1,305                  | 220     | 43      | 1,482                           | ..                      | ..                                    |
| 1914 | 1,313                  | 315     | 61      | 1,567                           | ..                      | ..                                    |
| 1915 | 1,239                  | 368     | 55      | 1,552                           | ..                      | ..                                    |
| 1916 | 1,315                  | 468     | 76      | 1,707                           | ..                      | ..                                    |
| 1917 | 1,359                  | 559     | 94      | 1,824                           | ..                      | ..                                    |
| 1918 | 1,260                  | 596     | 97      | 1,759                           | ..                      | ..                                    |
| 1919 | 1,375                  | 631     | 111     | 1,895                           | ..                      | ..                                    |
| 1920 | 1,512                  | 730     | 49      | 2,193                           | ..                      | 42                                    |
| 1921 | 1,225                  | 792     | 17      | 2,000                           | ..                      | 37                                    |
| 1922 | 1,448                  | 1,029   | 26      | 2,451                           | ..                      | 45                                    |
| 1923 | 1,485                  | 1,309   | 16      | 2,778                           | ..                      | 50                                    |
| 1924 | 1,481                  | 1,357   | 17      | 2,821                           | 2,737                   | 48                                    |
| 1925 | 1,530                  | 1,448   | 23      | 2,955                           | 2,933                   | 51                                    |
| 1926 | 1,684                  | 1,852   | 19      | 3,517                           | 3,307                   | 57                                    |
| 1927 | 1,486                  | 1,987   | 12      | 3,461                           | 3,445                   | 58                                    |
| 1928 | 1,418                  | 2,156   | 11      | 3,563                           | 3,515                   | 59                                    |
| 1929 | 1,392                  | 2,423   | 19      | 3,796                           | 3,780                   | 62                                    |
| 1930 | 1,282                  | 2,279   | 10      | 3,551                           | 3,563                   | 58                                    |
| 1931 | 1,157                  | 2,065   | 10      | 3,212                           | 3,245                   | 52                                    |
| 1932 | 1,009                  | 1,791   | 8       | 2,793                           | 2,840                   | 45                                    |
| 1933 | 946                    | 1,793   | 11      | 2,728                           | 2,690                   | 43                                    |
| 1934 | 961                    | 2,210   | 23      | 3,148                           | 3,058                   | 48                                    |
| 1935 | 912                    | 2,383   | 23      | 3,272                           | 3,300                   | 52                                    |
| 1936 | 921                    | 2,752   | 15      | 3,658                           | 3,650                   | 57                                    |
| 1937 | 946                    | 3,317   | 17      | 4,246                           | 3,830                   | 59                                    |
| 1938 | 820                    | 2,274   | 6       | 3,088                           | 3,458                   | 53                                    |
| 1939 | 939                    | 2,615   | 13      | 3,541                           | 3,550                   | 54                                    |
| 1940 | 1,013                  | 2,763   | 15      | 3,761                           | 3,730                   | 56                                    |
| 1941 | 1,015                  | 2,982   | 25      | 3,972                           | 3,930                   | 59                                    |
| 1942 | 953                    | 2,921   | 18      | 3,856                           | 3,800                   | 56                                    |
| 1943 | 805                    | 2,637   | 15      | 3,427                           | 3,650                   | 54                                    |
| 1944 | 720                    | 2,491   | 15      | 3,196                           | 3,250                   | 47                                    |
| 1945 | 724                    | 2,669   | 18      | 3,375                           | 3,480                   | 50                                    |
| 1946 | 771                    | 3,490   | 8       | 4,253                           | 4,296                   | 61                                    |

Note: In per capita consumption during war years no allowance has been made for service personnel temporarily out of the country but included in the total population.

Source: Data for 1890-1909: U.S. Census of Manufacturers.  
1913-1946: News Print Service Bureau Reports.

Table 39.

## Newsprint Prices

Average Contract Prices for Newsprint Paper per ton of 2000 pounds  
at New York

|                                 | U.S. dollars |
|---------------------------------|--------------|
| 1914                            | \$ 43.60     |
| 1915                            | 41.78        |
| 1916                            | 51.78        |
| 1917                            | 63.78        |
| 1918                            | 64.30        |
| 1919                            | 79.40        |
| 1920                            | 112.60       |
| 1921                            | 111.35       |
| 1922                            | 76.80        |
| 1923                            | 81.80        |
| 1924                            | 80.80        |
| 1925                            | 76.80        |
| 1926                            | 70.00        |
| 1927                            | 70.00        |
| 1928                            | 67.50        |
| 1929                            | 62.00        |
| 1930                            | 62.00        |
| 1931                            | 57.00        |
| 1932                            | 48.33        |
| 1933                            | 41.25        |
| 1934                            | 40.00        |
| 1935                            | 40.00        |
| 1936                            | 41.00        |
| 1937                            | 42.50        |
| 1938                            | 50.00        |
| 1939                            | 50.00        |
| 1940                            | 50.00        |
| 1941                            | 50.00        |
| 1942                            | 50.00        |
| 1943                            | 54.66        |
| 1944                            | 58.00        |
| 1945                            | 60.25        |
| 1946                            | 72.25        |
| 1947, first quarter             | 84.00        |
| 1947, second and third quarters | 90.00        |

Source: 1914 to 1922 figures: News Print Service Bureau, N.Y.  
1923 to 1947 figures: Newsprint Association of Canada.

Table 40.

## Advertising Lineage in Cities of the United States

Millions of agate lines

|      | 23 cities a | 52 cities b |
|------|-------------|-------------|
| 1914 | 663         | ..          |
| 1915 | 669         | ..          |
| 1916 | 751         | ..          |
| 1917 | 770         | ..          |
| 1918 | 743         | ..          |
| 1919 | 1028        | ..          |
| 1920 | 1175        | ..          |
| 1921 | 1068        | ..          |
| 1922 | 1113        | ..          |
| 1923 | 1191        | ..          |
| 1924 | 1179        | ..          |
| 1925 | 1237        | ..          |
| 1926 | 1286        | ..          |
| 1927 | 1245        | ..          |
| 1928 | 1238        | 1802        |
| 1929 | 1298        | 1897        |
| 1930 | 1109        | 1654        |
| 1931 | 1011        | 1465        |
| 1932 | 814         | 1165        |
| 1933 | 746         | 1065        |
| 1934 | 811         | 1179        |
| 1935 | 855         | 1247        |
| 1936 | 831         | 1225        |
| 1937 | 929         | 1380        |
| 1938 | 950         | 1410        |
| 1939 | 831         | 1225        |
| 1940 | 843         | 1243        |
| 1941 | 853         | 1269        |
| 1942 | 878         | 1313        |
| 1943 | 831         | 1242        |
| 1944 | 944         | 1396        |
| 1945 | 880         | 1361        |
| 1946 | 899         | 1391        |
|      | 1169        | 1730        |

a: Source: 1914 to 1933 figures taken from The Newsprint Paper Industry, J. R. Guthrie, Harvard University Press, quoting Editor and Publisher. 1934 to 1945 figures from Editor and Publisher International Year Books.

b: News Print Service Bureau figures.

Table 41.

## World Newsprint Production

|                         | Estimated 000's of short tons |       |
|-------------------------|-------------------------------|-------|
|                         | 1939                          | 1946  |
| Canada . . . . .        | 2,869                         | 4,143 |
| British Isles . . . . . | 848                           | 330   |
| U.S.A. . . . .          | 939                           | 771   |
| Germany . . . . .       | 415                           | 150   |
| France . . . . .        | 276                           | 108   |
| Japan . . . . .         | 437                           | 83    |
| Finland . . . . .       | 519                           | 258   |
| Newfoundland . . . . .  | 308                           | 363   |
| Sweden . . . . .        | 305                           | 289   |
| Norway . . . . .        | 226                           | 121   |
| Russia . . . . .        | 200                           | 200   |
| Holland . . . . .       | 104                           | 33    |
| Other Europe . . . . .  | 256                           | 217   |
| All others . . . . .    | 12                            | 54    |
|                         | 7,714                         | 7,120 |

Source: Newsprint Association of Canada.

Table 42.

## Newsprint Consumption by Larger Papers

The following table lists the estimated 1947 newsprint consumption of some of the large newspapers in Canada and the United States.

| Canada                                         | Tons    |
|------------------------------------------------|---------|
| Halifax Herald and Mail . . . . .              | 4,400   |
| London Free Press . . . . .                    | 4,800   |
| Montreal La Presse . . . . .                   | 17,800  |
| Montreal Star and Montreal Standard . . . . .  | 20,000  |
| Ottawa Journal . . . . .                       | 3,744   |
| Toronto Daily Star . . . . .                   | 53,269  |
| Toronto Globe & Mail . . . . .                 | 12,000  |
| Toronto Evening Telegram . . . . .             | 18,000  |
| Vancouver Sun . . . . .                        | 8,870   |
| Winnipeg Free Press . . . . .                  | 9,800   |
| United States                                  |         |
| Atlanta Constitution . . . . .                 | 14,318  |
| Boston Post . . . . .                          | 32,000  |
| Buffalo News . . . . .                         | 24,000  |
| Chicago News . . . . .                         | 42,115  |
| Chicago Sun-Times . . . . .                    | 60,000  |
| Chicago Tribune . . . . .                      | 176,000 |
| Cincinnati Times-Star . . . . .                | 13,000  |
| Cleveland Plain Dealer . . . . .               | 30,266  |
| Des Moines Register and Tribune . . . . .      | 31,250  |
| Detroit Free Press . . . . .                   | 32,000  |
| Detroit News . . . . .                         | 59,100  |
| Detroit Times . . . . .                        | 40,000  |
| Houston Chronicle . . . . .                    | 19,000  |
| Los Angeles Times . . . . .                    | 40,000  |
| Louisville Courier-Journal and Times . . . . . | 25,943  |
| Miami Herald . . . . .                         | 25,000  |
| Milwaukee Journal . . . . .                    | 42,000  |
| New York Herald-Tribune . . . . .              | 60,000  |
| New York News . . . . .                        | 258,000 |
| Omaha World-Herald . . . . .                   | 17,000  |
| Pittsburg Sun-Telegraph . . . . .              | 25,500  |
| Portland Oregonian . . . . .                   | 22,000  |
| Toledo Blade and Times . . . . .               | 18,000  |
| Wall Street Journal . . . . .                  | 3,100   |
| Washington Post . . . . .                      | 18,000  |

Source: Editor and Publisher's "Annual Tabulation of Newspaper Mechanical Equipment", 1-11-47.

Table 43.

## Operating Ratio Canadian Newsprint Mills

| Annual production as a percentage of rated annual capacity |  | Per Cent |
|------------------------------------------------------------|--|----------|
| 1925 . . . . .                                             |  | 88.8     |
| 1926 . . . . .                                             |  | 97.5     |
| 1927 . . . . .                                             |  | 84.3     |
| 1928 . . . . .                                             |  | 79.6     |
| 1929 . . . . .                                             |  | 84.6     |
| 1930 . . . . .                                             |  | 69.6     |
| 1931 . . . . .                                             |  | 58.1     |
| 1932 . . . . .                                             |  | 49.9     |
| 1933 . . . . .                                             |  | 52.3     |
| 1934 . . . . .                                             |  | 67.3     |
| 1935 . . . . .                                             |  | 70.3     |
| 1936 . . . . .                                             |  | 82.9     |
| 1937 . . . . .                                             |  | 93.9     |
| 1938 . . . . .                                             |  | 62.4     |
| 1939 . . . . .                                             |  | 66.8     |
| 1940 . . . . .                                             |  | 78.3     |
| 1941 . . . . .                                             |  | 78.9     |
| 1942 . . . . .                                             |  | 72.2     |
| 1943 . . . . .                                             |  | 69.1     |
| 1944 . . . . .                                             |  | 68.6     |
| 1945 . . . . .                                             |  | 75.8     |
| 1946 . . . . .                                             |  | 96.8     |

Source: Newsprint Association of Canada.

# "E" — OTHER PAPER AND PAPERBOARD

Table 44.

Paper Production — All grades except newsprint

| Tons | Paper-board (a) | Wrapping | Book and Writing | Tissue | All Other |
|------|-----------------|----------|------------------|--------|-----------|
| 1920 | 158,041         | 77,292   | 73,196           | 3,607  | 27,119    |
| 1921 | 89,120          | 52,898   | 53,530           | 3,879  | 14,406    |
| 1922 | 113,200         | 81,793   | 64,808           | 5,758  | 19,892    |
| 1923 | 130,582         | 84,912   | 76,789           | 4,980  | 40,499    |
| 1924 | 135,252         | 89,441   | 67,934           | 5,716  | 32,317    |
| 1925 | 144,646         | 91,417   | 74,724           | 7,200  | 30,195    |
| 1926 | 155,469         | 97,057   | 80,403           | 7,401  | 36,605    |
| 1927 | 161,497         | 102,707  | 75,072           | 8,849  | 37,736    |
| 1928 | 193,061         | 111,667  | 79,138           | 10,896 | 40,044    |
| 1929 | 250,061         | 91,374   | 73,502           | 9,796  | 47,085    |
| 1930 | 233,217         | 78,320   | 69,468           | 11,245 | 36,585    |
| 1931 | 202,854         | 77,194   | 59,580           | 11,560 | 32,985    |
| 1932 | 209,938         | 69,018   | 56,781           | 12,187 | 23,638    |
| 1933 | 232,190         | 67,780   | 60,683           | 12,331 | 24,471    |
| 1934 | 280,724         | 79,779   | 64,991           | 10,258 | 28,791    |
| 1935 | 314,849         | 82,517   | 70,350           | 18,107 | 29,629    |
| 1936 | 363,778         | 95,916   | 74,940           | 18,661 | 28,029    |
| 1937 | 422,710         | 108,734  | 84,168           | 23,747 | 32,116    |
| 1938 | 356,891         | 90,879   | 73,834           | 25,922 | 32,919    |
| 1939 | 413,687         | 109,907  | 90,135           | 29,706 | 30,470    |
| 1940 | 500,094         | 139,716  | 102,696          | 34,054 | 39,053    |
| 1941 | 649,840         | 162,581  | 117,444          | 35,725 | 39,453    |
| 1942 | 609,175         | 165,991  | 121,419          | 38,322 | 39,680    |
| 1943 | 568,101         | 145,545  | 122,174          | 43,247 | 40,835    |
| 1944 | 588,348         | 156,721  | 155,498          | 46,532 | 47,494    |
| 1945 | 595,131         | 162,175  | 162,198          | 50,418 | 65,621    |
| 1946 | 683,643         | 175,369  | 189,318          | 56,717 | 79,913    |

(a) Includes rigid insulating and other wall board; sheathing; bristol and index; all other boards.

Source: Dominion Bureau of Statistics.

Table 45.

Paper Production — All grades except newsprint

| Value | Paperboard (a) | Wrapping     | Book and Writing | Tissue      | All Other   |
|-------|----------------|--------------|------------------|-------------|-------------|
| 1920  | \$12,904,662   | \$12,161,303 | \$21,868,807     | \$1,155,324 | \$3,067,400 |
| 1921  | 6,225,948      | 6,634,211    | 12,550,520       | 1,232,398   | 1,126,260   |
| 1922  | 7,000,081      | 8,219,841    | 12,560,504       | 1,154,772   | 1,353,553   |
| 1923  | 8,480,233      | 7,666,174    | 13,582,135       | 1,791,880   | 3,250,608   |
| 1924  | 8,228,760      | 8,027,918    | 12,605,623       | 1,024,967   | 3,155,326   |
| 1925  | 8,378,621      | 8,130,102    | 13,145,407       | 1,385,089   | 2,852,815   |
| 1926  | 8,825,804      | 8,552,400    | 14,765,725       | 1,468,004   | 3,505,348   |
| 1927  | 8,985,788      | 9,607,829    | 12,916,469       | 1,646,487   | 2,787,439   |
| 1928  | 10,656,200     | 10,424,217   | 14,008,406       | 2,047,206   | 3,022,744   |
| 1929  | 13,539,645     | 9,725,876    | 13,636,562       | 1,845,395   | 3,441,617   |
| 1930  | 12,193,829     | 7,880,224    | 12,261,659       | 2,035,325   | 2,752,954   |
| 1931  | 10,225,732     | 7,479,993    | 10,154,171       | 1,990,925   | 2,359,431   |
| 1932  | 9,621,041      | 6,289,293    | 8,687,895        | 1,961,468   | 1,773,574   |
| 1933  | 10,598,439     | 6,441,695    | 8,927,408        | 2,168,497   | 1,594,335   |
| 1934  | 13,351,475     | 7,740,823    | 9,681,536        | 1,654,534   | 1,652,397   |
| 1935  | 15,051,893     | 7,956,783    | 10,440,789       | 2,031,221   | 1,835,499   |
| 1936  | 17,531,451     | 8,761,356    | 10,866,346       | 2,085,489   | 1,895,491   |
| 1937  | 21,719,730     | 10,237,823   | 12,620,507       | 2,734,307   | 2,148,753   |
| 1938  | 19,288,172     | 9,069,298    | 11,098,901       | 2,961,482   | 2,181,010   |
| 1939  | 21,359,828     | 10,712,394   | 12,773,781       | 3,060,456   | 2,011,020   |
| 1940  | 31,078,759     | 14,457,299   | 15,518,667       | 3,709,952   | 2,624,821   |
| 1941  | 40,214,658     | 16,744,806   | 18,476,397       | 4,199,139   | 2,889,982   |
| 1942  | 38,641,867     | 17,221,769   | 19,181,665       | 5,036,489   | 3,113,613   |
| 1943  | 37,528,257     | 15,614,453   | 19,047,039       | 5,637,142   | 3,246,393   |
| 1944  | 39,091,667     | 16,699,663   | 23,700,310       | 6,391,770   | 4,007,266   |
| 1945  | 40,100,872     | 17,558,552   | 24,468,409       | 7,065,732   | 4,620,313   |
| 1946  | 50,213,833     | 20,797,070   | 29,995,156       | 9,015,540   | 6,125,181   |

(a) Includes rigid insulating and other wall board; sheathing; bristol and index; all other boards.

Source: Dominion Bureau of Statistics.

Table 46.

Exports of Paper (Except Newsprint)

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 in the succeeding table.

Moreover, because they are compiled on a somewhat different basis, the two tables which follow are not comparable to the production figures in the two preceding tables.

| Tons                      | 1946    | 1945    | 1944    | 1943    | 1942    | 1941    | 1940    |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|
| Wrapping — Coated         | 2,259   | .....   | .....   | .....   | .....   | .....   | .....   |
| Wrapping — Kraft — n.o.p. | 14,270  | 22,113  | 17,941  | 16,275  | 17,797  | 24,282  | 28,878  |
| Wrapping — n.o.p.         | 5,924   | 6,983   | 7,550   | 6,650   | 16,306  | 10,839  | 12,001  |
| Book                      | 24,676  | 17,124  | 17,402  | 10,193  | 5,968   | 5,136   | 7,728   |
| Bond & Writing            | 6,175   | 4,184   | 3,989   | 3,893   | 1,860   | 2,830   | 3,029   |
| Paperboard — n.o.p.       | 59,799  | 64,643  | 62,580  | 44,668  | 82,227  | 137,949 | 83,533  |
| Roofing Paper — all kinds | 4,146   | 3,366   | 3,088   | 2,987   | 2,947   | 8,557   | 4,854   |
| Pulp & Fibre Wallboards   | 14,294  | 17,914  | 13,641  | 13,179  | 20,671  | 33,689  | 28,784  |
| Waste Paper — n.o.p.      | 10,421  | 11,260  | 10,669  | 7,915   | 16,922  | 23,424  | 11,140  |
| Pulpboard for Wallboards  | 27,610  | 29,625  | 28,147  | 27,801  | 23,194  | 20,303  | 9,263   |
| Tissue Paper              | 328     | 377     | 709     | 781     | 170     | 2,256   | 3,315   |
| Toilet Paper              | 1,878   | 2,980   | 2,479*  | .....   | .....   | .....   | .....   |
|                           | 171,780 | 180,569 | 168,195 | 134,342 | 188,062 | 269,265 | 194,525 |

n.o.p.: not otherwise provided for.

\* : included in other categories in preceding years.

Source: Dominion Bureau of Statistics.

Table 47.

## Exports of Paper (Except Newsprint)

(See note accompanying the preceding table)

| Value                               | 1945         | 1944         | 1943         | 1942         | 1941         | 1940         |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <i>Paper</i>                        |              |              |              |              |              |              |
| Wrapping — Coated . . . . .         | \$ 428,117   | .....        | .....        | .....        | .....        | .....        |
| Wrapping — Kraft — n.o.p. . . . .   | 1,720,167    | \$ 2,555,522 | \$ 1,989,604 | \$ 1,844,688 | \$ 1,895,633 | \$ 2,451,549 |
| Wrapping — n.o.p. . . . .           | 941,112      | 1,215,050    | 1,267,410    | 1,017,723    | 1,508,020    | 1,086,229    |
| Book . . . . .                      | 3,580,946    | 3,062,502    | 3,012,611    | 1,558,247    | 917,884      | 741,566      |
| Bond & Writing . . . . .            | 1,410,794    | 877,296      | 778,829      | 715,927      | 328,039      | 500,602      |
| Paperboard — n.o.p. . . . .         | 5,622,884    | 5,397,180    | 5,082,130    | 3,219,462    | 5,269,360    | 8,433,952    |
| Roofing paper — all kinds . . . . . | 330,205      | 185,831      | 157,373      | 157,645      | 150,004      | 473,689      |
| Pulp and Fibre Wallboards . . . . . | 1,234,205    | 1,438,850    | 1,181,774    | 1,050,747    | 1,479,934    | 2,528,745    |
| Waste paper — n.o.p. . . . .        | 264,338      | 255,590      | 198,150      | 162,703      | 332,165      | 488,745      |
| Pulpboard for Wallboards . . . . .  | 1,562,941    | 1,621,460    | 1,402,121    | 1,350,415    | 1,104,697    | 868,776      |
| Tissue Paper . . . . .              | 87,666       | 78,315       | 133,424      | 134,662      | 32,016       | 325,340      |
| Toilet Paper . . . . .              | 308,192      | 502,796      | 402,573      | .....        | .....        | .....        |
|                                     | \$17,491,567 | \$17,190,392 | \$15,605,999 | \$11,212,219 | \$13,017,752 | \$17,899,193 |
|                                     |              |              |              |              |              | \$15,348,664 |
| <i>Paper Products</i>               |              |              |              |              |              |              |
| Bags, Boxes & Cartons . . . . .     | \$ 819,430   | \$ 1,555,349 | \$ 838,587   | \$ 909,309   | \$ 658,743   | \$ 693,109   |
| Hanging or Wall . . . . .           | 687,149      | 459,566      | 311,819      | 232,785      | 163,168      | 153,093      |
| Hanging not Printed . . . . .       | 70,080       | .....        | .....        | .....        | .....        | 1,542        |
| Writing Paper — n.o.p. . . . .      | 378,821      | 807,402      | 625,650      | .....        | .....        | .....        |
| Other Paper . . . . .               | 1,285,535    | 1,376,534    | 925,593      | 2,152,398    | 1,010,435    | 1,126,920    |
|                                     | \$ 3,241,015 | \$ 4,198,851 | \$ 2,701,649 | \$ 3,294,492 | \$ 1,832,346 | \$ 1,974,664 |
| Total . . . . .                     | \$20,732,582 | \$21,389,243 | \$18,307,648 | \$14,506,711 | \$14,850,098 | \$19,873,857 |
|                                     |              |              |              |              |              | \$2,413,911  |
|                                     |              |              |              |              |              | \$17,762,575 |

n.o.p. : Not otherwise provided for.

Source: Dominion Bureau of Statistics.

## "F" — NATIONAL SIGNIFICANCE

Table 48.

## Production and Exports of Paper

|                | Production              | Exports               |
|----------------|-------------------------|-----------------------|
|                | Tons Value              | Tons Value            |
| 1920 . . . . . | 1,214,951 \$132,022,767 | 780,932 \$ 86,744,010 |
| 1921 . . . . . | 1,018,947 106,553,935   | 733,549 75,510,945    |
| 1922 . . . . . | 1,366,815 106,260,078   | 994,848 74,825,893    |
| 1923 . . . . . | 1,589,303 127,984,370   | 1,178,743 93,770,957  |
| 1924 . . . . . | 1,718,741 133,319,497   | 1,263,342 99,248,497  |
| 1925 . . . . . | 1,884,705 140,160,675   | 1,442,296 106,624,046 |
| 1926 . . . . . | 2,266,145 158,182,227   | 1,770,386 121,414,513 |
| 1927 . . . . . | 2,468,691 168,230,740   | 1,918,866 129,637,687 |
| 1928 . . . . . | 2,849,199 184,305,405   | 2,252,757 147,156,792 |
| 1929 . . . . . | 3,197,149 192,989,252   | 2,563,859 154,919,122 |
| 1930 . . . . . | 2,926,787 173,305,874   | 2,372,640 138,530,243 |
| 1931 . . . . . | 2,611,225 143,629,889   | 2,042,151 111,114,042 |
| 1932 . . . . . | 2,290,767 113,873,123   | 1,805,130 86,323,539  |
| 1933 . . . . . | 2,419,420 96,689,875    | 1,871,191 72,396,132  |
| 1934 . . . . . | 3,069,516 120,892,225   | 2,454,341 87,633,721  |
| 1935 . . . . . | 3,280,896 125,752,650   | 2,617,579 94,041,591  |
| 1936 . . . . . | 3,806,710 146,354,666   | 3,061,174 110,861,428 |
| 1937 . . . . . | 4,345,361 175,885,423   | 3,532,269 136,164,168 |
| 1938 . . . . . | 3,249,358 151,650,065   | 2,545,456 112,872,776 |
| 1939 . . . . . | 3,600,302 170,776,062   | 2,795,876 124,127,164 |
| 1940 . . . . . | 4,319,414 225,836,809   | 3,489,946 170,879,526 |
| 1941 . . . . . | 4,524,776 241,450,292   | 3,587,181 176,184,025 |
| 1942 . . . . . | 4,231,767 230,269,512   | 3,241,941 156,938,084 |
| 1943 . . . . . | 3,966,344 234,036,152   | 2,983,882 160,825,462 |
| 1944 . . . . . | 4,044,376 255,545,841   | 3,012,975 177,290,282 |
| 1945 . . . . . | 4,359,576 282,837,614   | 3,285,611 203,011,992 |
| 1946 . . . . . | 5,347,118 396,956,390   | 4,045,795 287,437,805 |

a: Weight of items of export classification for which tonnage figures are available (see note accompanying Table 46). The value figures, however, cover all exports of paper and paper products.

Source: Dominion Bureau of Statistics.

Table 49.

## Pulp and Paper Exports and Canadian Trade

|                | Pulp and paper exports | Total domestic exports of Canada | Pulp and paper exports to total exports — % | Trade Balance |
|----------------|------------------------|----------------------------------|---------------------------------------------|---------------|
| 1919 . . . . . | \$97,168,278           | \$1,235,958,483                  | 7.86                                        | \$348,778,322 |
| 1920 . . . . . | 163,127,988            | 1,268,014,533                    | 12.86                                       | 38,758,816    |
| 1921 . . . . . | 108,644,620            | 800,149,296                      | 13.58                                       | 14,665,274    |
| 1922 . . . . . | 115,863,742            | 880,408,645                      | 13.16                                       | 131,814,604   |
| 1923 . . . . . | 140,798,453            | 1,002,401,467                    | 14.05                                       | 112,955,801   |
| 1924 . . . . . | 139,491,469            | 1,029,699,449                    | 13.55                                       | 234,108,594   |
| 1925 . . . . . | 154,555,951            | 1,239,554,207                    | 12.47                                       | 361,472,800   |
| 1926 . . . . . | 173,491,635            | 1,261,241,525                    | 13.76                                       | 268,256,906   |
| 1927 . . . . . | 176,633,728            | 1,210,596,998                    | 14.59                                       | 143,924,299   |
| 1928 . . . . . | 192,771,615            | 1,339,409,362                    | 14.39                                       | 141,470,440   |
| 1929 . . . . . | 198,287,106            | 1,152,416,330                    | 17.21                                       | 120,650,245   |
| 1930 . . . . . | 177,590,222            | 863,683,761                      | 20.56                                       | 125,331,731   |
| 1931 . . . . . | 141,170,685            | 587,653,440                      | 24.02                                       | 28,537,926    |
| 1932 . . . . . | 105,253,603            | 489,883,112                      | 21.48                                       | 45,299,340    |
| 1933 . . . . . | 113,078,565            | 649,314,236                      | 17.42                                       | 142,836,731   |
| 1934 . . . . . | 95,750,769             | 529,449,529                      | 18.09                                       | 134,269,478   |
| 1935 . . . . . | 121,667,321            | 724,977,459                      | 16.78                                       | 187,621,328   |
| 1936 . . . . . | 142,108,123            | 937,824,933                      | 15.15                                       | 315,318,408   |
| 1937 . . . . . | 177,979,899            | 997,366,918                      | 17.84                                       | 203,225,455   |
| 1938 . . . . . | 140,603,514            | 837,583,917                      | 16.79                                       | 171,232,779   |
| 1939 . . . . . | 155,127,766            | 924,926,104                      | 16.77                                       | 184,866,179   |
| 1940 . . . . . | 231,809,675            | 1,178,954,420                    | 19.66                                       | 111,266,875   |
| 1941 . . . . . | 262,081,761            | 1,621,003,175                    | 16.17                                       | 191,662,891   |
| 1942 . . . . . | 253,104,957            | 2,363,773,296                    | 10.71                                       | 741,224,113   |
| 1943 . . . . . | 260,838,237            | 2,971,475,277                    | 8.78                                        | 1,266,275,389 |
| 1944 . . . . . | 278,853,306            | 3,439,953,165                    | 8.11                                        | 1,724,200,415 |
| 1945 . . . . . | 309,066,903            | 3,218,330,353                    | 9.60                                        | 1,681,649,146 |
| 1946 . . . . . | 401,458,464            | 2,312,215,301                    | 17.36                                       | 411,886,445   |

—: Unfavourable balance.

Domestic exports cover exports of Canadian produce. In the last 20 years, domestic exports cover approximately 98 per cent or more of total Canadian exports.

Pulp and paper export figures 1919-1930 estimated by DBS from fiscal year figures.

Source: Dominion Bureau of Statistics.

Table 50.  
Pulp and Paper Production and the National Income

|                | Gross production<br>of industry | National Income  |
|----------------|---------------------------------|------------------|
| 1921 . . . . . | \$ 151,003,165                  | \$ 3,507,220,000 |
| 1922 . . . . . | 158,950,956                     | 3,670,975,000    |
| 1923 . . . . . | 184,821,511                     | 3,847,059,000    |
| 1924 . . . . . | 179,259,504                     | 3,865,446,000    |
| 1925 . . . . . | 193,092,937                     | 4,238,980,000    |
| 1926 . . . . . | 215,370,274                     | 4,507,335,000    |
| 1927 . . . . . | 219,329,753                     | 4,738,360,000    |
| 1928 . . . . . | 233,077,236                     | 5,269,467,000    |
| 1929 . . . . . | 243,970,761                     | 5,272,619,000    |
| 1930 . . . . . | 215,970,761                     | 4,452,419,000    |
| 1931 . . . . . | 174,733,954                     | 3,579,535,000    |
| 1932 . . . . . | 135,648,729                     | 2,812,905,000    |
| 1933 . . . . . | 123,415,492                     | 2,722,504,000    |
| 1934 . . . . . | 152,647,756                     | 3,147,164,000    |
| 1935 . . . . . | 159,325,546                     | 3,371,254,000    |
| 1936 . . . . . | 183,632,995                     | 3,827,255,000    |
| 1937 . . . . . | 226,244,711                     | 4,367,704,000    |
| 1938 . . . . . | 183,897,503                     | 3,940,000,000    |
| 1939 . . . . . | 208,152,295                     | 4,221,000,000    |
| 1940 . . . . . | 298,034,843                     | 5,112,000,000    |
| 1941 . . . . . | 334,726,175                     | 6,514,000,000    |
| 1942 . . . . . | 336,697,277                     | 8,277,000,000    |
| 1943 . . . . . | 344,411,614                     | 9,069,000,000    |
| 1944 . . . . . | 369,846,086                     | 9,685,000,000    |
| 1945 . . . . . | 398,805,515                     | 9,587,000,000*   |
| 1946 . . . . . | 527,814,916                     | 9,212,100,000*   |

\* Preliminary figures.

Source: Dominion Bureau of Statistics. The National Income figures from 1938 onward have been compiled on a revised basis.

Table 51.  
Growth of Industry

|                | Paper and<br>Paper Mills | Total<br>Employees | Total<br>Production |
|----------------|--------------------------|--------------------|---------------------|
| 1871 . . . . . | 21                       | 760                | \$ 1,071,651        |
| 1881 . . . . . | 41                       | 1,588              | 2,509,993           |
| 1891 . . . . . | 58                       | 2,817              | 3,633,257           |
| 1901 . . . . . | 53                       | 6,236              | 8,627,557           |
| 1911 . . . . . | 72                       | 9,766              | 23,226,479          |
| 1921 . . . . . | 100                      | 24,619             | 151,003,165         |
| 1931 . . . . . | 103                      | 26,669             | 174,733,954         |
| 1941 . . . . . | 106                      | 37,154             | 334,726,175         |
| 1945 . . . . . | 109                      | 39,996             | 398,804,515         |
| 1946 . . . . . | 113                      | 44,967             | 527,814,916         |

Source: Dominion Bureau of Statistics.

Table 52.  
Operations of Mills

| Products                                           | No. of mills<br>1946 |
|----------------------------------------------------|----------------------|
| Groundwood pulp . . . . .                          | 66                   |
| Mechanical screenings . . . . .                    | 24                   |
| Soda pulp . . . . .                                | 1                    |
| Bleached sulphite (dissolving) . . . . .           | 6                    |
| Bleached sulphite (paper pulp) . . . . .           | 14                   |
| Unbleached sulphite (strong) . . . . .             | 12                   |
| Unbleached sulphite (news grade) . . . . .         | 28                   |
| Sulphate pulp, bleached . . . . .                  | 4                    |
| Sulphate pulp, semi-bleached . . . . .             | 4                    |
| Sulphate pulp, unbleached . . . . .                | 11                   |
| Chemical screenings . . . . .                      | 32                   |
| Defibrated and exploded pulps . . . . .            | 5                    |
| Newsprint . . . . .                                | 35                   |
| Groundwood printing and specialty papers . . . . . | 8                    |
| Book paper . . . . .                               | 14                   |
| Fine papers . . . . .                              | 15                   |
| Miscellaneous fine papers . . . . .                | 13                   |
| Tissue paper other than sanitary . . . . .         | 12                   |
| Sanitary paper . . . . .                           | 12                   |
| Special industrial papers . . . . .                | 10                   |
| Wrapping papers . . . . .                          | 20                   |
| Building papers . . . . .                          | 13                   |
| Paperboard . . . . .                               | 36                   |
| Building boards . . . . .                          | 7                    |

Note: Most mills make two or more products. There are in all 113 mills.

Source: Dominion Bureau of Statistics.

Table 53.  
Mill Locations

|                            | Pulp<br>Mills | Pulp<br>&<br>Paper<br>Mills | Paper<br>Mills | Total |
|----------------------------|---------------|-----------------------------|----------------|-------|
| Nova Scotia . . . . .      | 4             | 1                           | —              | 5     |
| New Brunswick . . . . .    | 3             | 3                           | —              | 6     |
| Quebec . . . . .           | 12            | 31                          | 7              | 50    |
| Ontario . . . . .          | 9             | 16                          | 18             | 43    |
| Manitoba . . . . .         | —             | 2                           | —              | 2     |
| British Columbia . . . . . | 3             | 3                           | 1              | 7     |
| Canada . . . . .           | 31            | 56                          | 26             | 113   |

Source: Dominion Bureau of Statistics.

Table 54.

## Employees and Wages

|      | Total<br>Employees | Employees<br>On Salary | Total<br>Salaries<br>Paid | Average<br>Salary | Employees<br>On Wages | Total<br>Wages<br>Paid | Average<br>Wage | Wage<br>Index<br>(a) | Cost of<br>Living Index | Total<br>Salaries<br>& Wages |
|------|--------------------|------------------------|---------------------------|-------------------|-----------------------|------------------------|-----------------|----------------------|-------------------------|------------------------------|
| 1920 | 31,298             | 2,669                  | \$ 6,536,579              | \$ 2,449          | 28,629                | \$38,717,314           | \$ 1,352        | 109.5                | 150.5                   | \$45,253,893                 |
| 1921 | 24,611             | 2,353                  | 6,363,304                 | 2,704             | 22,258                | 27,835,786             | 1,251           | 101.3                | 132.5                   | 34,199,090                   |
| 1922 | 25,830             | 2,608                  | 6,326,635                 | 2,426             | 23,222                | 26,592,320             | 1,145           | 92.7                 | 121.3                   | 32,918,955                   |
| 1923 | 29,234             | 2,820                  | 7,069,196                 | 2,507             | 26,414                | 31,313,649             | 1,185           | 96.0                 | 121.7                   | 38,382,845                   |
| 1924 | 27,627             | 2,993                  | 6,938,659                 | 2,318             | 24,634                | 30,710,869             | 1,247           | 101.0                | 119.5                   | 37,649,528                   |
| 1925 | 28,031             | 2,971                  | 6,816,191                 | 2,294             | 25,060                | 31,744,714             | 1,267           | 102.6                | 120.6                   | 38,560,905                   |
| 1926 | 31,279             | 3,099                  | 7,492,040                 | 2,418             | 28,180                | 36,683,462             | 1,302           | 105.4                | 121.8                   | 44,175,502                   |
| 1927 | 32,876             | 3,174                  | 8,093,830                 | 2,550             | 29,702                | 37,580,463             | 1,265           | 102.4                | 119.9                   | 45,674,293                   |
| 1928 | 33,614             | 3,507                  | 8,713,671                 | 2,485             | 30,107                | 38,608,977             | 1,282           | 103.8                | 120.5                   | 47,322,648                   |
| 1929 | 34,202             | 3,738                  | 9,931,901                 | 2,513             | 30,464                | 40,822,544             | 1,368           | 110.7                | 121.7                   | 50,214,445                   |
| 1930 | 33,207             | 3,532                  | 9,538,588                 | 2,701             | 29,675                | 36,236,388             | 1,221           | 98.9                 | 120.8                   | 45,774,976                   |
| 1931 | 26,669             | 3,170                  | 7,858,839                 | 2,479             | 23,499                | 26,933,174             | 1,146           | 92.8                 | 109.1                   | 34,792,013                   |
| 1932 | 24,561             | 3,112                  | 7,240,125                 | 2,327             | 21,449                | 21,108,003             | 984             | 79.7                 | 99.0                    | 28,348,128                   |
| 1933 | 24,037             | 2,920                  | 6,464,510                 | 2,252             | 21,117                | 20,193,032             | 956             | 77.4                 | 94.4                    | 26,657,542                   |
| 1934 | 26,993             | 3,174                  | 7,148,763                 | 2,252             | 23,819                | 26,158,280             | 1,098           | 88.9                 | 95.6                    | 33,307,043                   |
| 1935 | 27,836             | 3,290                  | 7,827,961                 | 2,379             | 24,546                | 28,065,352             | 1,143           | 92.6                 | 96.2                    | 35,893,313                   |
| 1936 | 33,205             | 3,372                  | 7,927,690                 | 2,351             | 26,106                | 31,512,384             | 1,207           | 97.7                 | 98.1                    | 39,440,074                   |
| 1937 | 33,205             | 3,044                  | 9,561,449                 | 2,364             | 29,161                | 39,196,346             | 1,344           | 108.8                | 101.2                   | 48,757,795                   |
| 1938 | 30,943             | 4,263                  | 10,823,536                | 2,539             | 26,680                | 31,795,775             | 1,192           | 96.5                 | 102.2                   | 42,619,311                   |
| 1939 | 31,016             | 4,382                  | 10,875,243                | 2,482             | 26,634                | 33,862,136             | 1,271           | 102.9                | 101.5                   | 44,737,739                   |
| 1940 | 34,719             | 4,630                  | 11,693,329                | 2,526             | 30,089                | 44,380,483             | 1,475           | 119.4                | 105.6                   | 56,073,812                   |
| 1941 | 37,154             | 4,970                  | 12,924,964                | 2,600             | 32,184                | 50,752,854             | 1,577           | 128.1                | 111.7                   | 63,677,818                   |
| 1942 | 38,002             | 5,071                  | 13,618,478                | 2,685             | 32,931                | 56,037,915             | 1,701           | 138.1                | 117.0                   | 69,656,393                   |
| 1943 | 37,020             | 5,384                  | 14,663,655                | 2,723             | 31,636                | 56,535,767             | 1,787           | 145.1                | 118.4                   | 71,199,422                   |
| 1944 | 37,896             | 5,488                  | 15,617,507                | 2,846             | 32,408                | 60,215,901             | 1,858           | 150.9                | 118.9                   | 75,833,408                   |
| 1945 | 39,996             | 5,981                  | 16,766,154                | 2,803             | 34,015                | 63,696,490             | 1,873           | 152.2                | 119.5                   | 80,462,644                   |
| 1946 | 44,967             | 6,910                  | 20,959,942                | 3,033             | 38,057                | 80,404,646             | 2,103           | 170.8                | 123.6                   | 101,364,636                  |

Seasonable woods labour not included.

a: Canadian Pulp and Paper Association figures based on: 100 equals 1935-39 average. Cost of living index: 100 equals 1935-39 average.

Source: Dominion Bureau of Statistics.

Table 55.

## Capital, Employees and Wages

|       | Capital<br>Employed | Number of<br>Employees | Capital<br>Employed<br>per employee | Total<br>Salaries<br>and Wages |
|-------|---------------------|------------------------|-------------------------------------|--------------------------------|
| 1920  | \$347,553,333       | 31,292                 | \$11,105                            | \$45,253,892                   |
| 1921  | 379,812,751         | 24,619                 | 15,428                              | 34,199,090                     |
| 1922  | 381,006,324         | 25,830                 | 14,751                              | 32,918,955                     |
| 1923  | 417,611,678         | 29,234                 | 14,285                              | 38,382,845                     |
| 1924  | 459,457,696         | 27,627                 | 16,631                              | 37,649,528                     |
| 1925  | 460,397,772         | 28,031                 | 16,425                              | 38,560,905                     |
| 1926  | 501,184,714         | 31,279                 | 16,023                              | 44,175,502                     |
| 1927  | 579,853,552         | 32,876                 | 17,638                              | 45,674,293                     |
| 1928  | 685,687,459         | 33,614                 | 20,399                              | 47,322,648                     |
| 1929  | 644,773,806         | 34,202                 | 18,852                              | 50,214,445                     |
| 1930  | 703,937,104         | 33,207                 | 21,198                              | 45,774,976                     |
| 1931  | 630,176,540         | 26,669                 | 24,630                              | 34,792,013                     |
| 1932  | 597,550,013         | 24,561                 | 24,329                              | 28,348,128                     |
| 1933  | 559,265,544         | 24,037                 | 23,267                              | 26,657,542                     |
| 1934  | 554,973,891         | 26,993                 | 20,560                              | 33,307,043                     |
| 1935  | 545,572,938         | 27,836                 | 19,600                              | 35,893,313                     |
| 1936  | 536,073,034         | 29,478                 | 18,186                              | 39,440,074                     |
| 1937  | 570,352,287         | 33,205                 | 17,177                              | 48,757,795                     |
| 1938  | 594,908,222         | 30,943                 | 19,226                              | 42,619,311                     |
| 1939  | 597,908,918         | 31,016                 | 19,277                              | 44,737,739                     |
| 1940  | 642,979,942         | 34,719                 | 18,520                              | 56,073,812                     |
| 1941  | 678,937,841         | 37,154                 | 18,274                              | 63,677,818                     |
| 1942  | 655,598,196         | 38,002                 | 17,251                              | 69,656,393                     |
| 1943  | 667,458,143         | 37,020                 | 18,029                              | 71,199,422                     |
| 1946a | 1,100,000,000 a     | 44,967                 | 24,462                              | 101,364,636                    |

Seasonal woods labour is not included.

a: Capital employed figures not compiled after 1943 by Dominion Bureau of Statistics. The \$1.1 billion is an estimate of The Financial Post, July 12, 1947, based on annual financial reports covering 70 per cent of the capacity of the industry. The estimate was not compiled on the same basis as that employed in the preceding years which, among other items, did not include substantial assets such as timber limits and power developments, nor investments in wholly or partly owned subsidiaries or other enterprises.

Source: Dominion Bureau of Statistics.

Table 56.

## Estimated Sums Paid and Numbers Employed 1946

| Wages                                                                        |               |
|------------------------------------------------------------------------------|---------------|
| Mill workers                                                                 | \$101 million |
| Woods workers*                                                               | 94 million    |
| \$195 million                                                                |               |
| Workers                                                                      |               |
| Woods workers, mostly seasonal, on manufacturers' limits east of the Rockies | 151,000       |
| Woods workers in B.C. mostly permanent                                       | 3,000         |
| Woods workers cutting pulpwood for sale to manufacturers                     | 47,000        |
| 201,000                                                                      |               |
| Mill workers, permanent                                                      | 44,000        |
| 245,000                                                                      |               |

\* Includes an estimated \$22 million to the 47,000 woods workers cutting pulpwood for sale to the mills. Includes also those working for contractors cutting pulpwood on pulp and paper company limits. The terms of pulpwood cutting contracts are of an infinite variety ranging from those in which the contractor and his men are company employees to those in which the contractor is a free agent. Some companies cut all the wood required from their own limits.

Source: Woodlands Section, Canadian Pulp and Paper Association.

Table 57.  
Growth in Employment and Wages

|                                                                                              | 1915         | 1946          | % increase |
|----------------------------------------------------------------------------------------------|--------------|---------------|------------|
| Mill workers . . . . .                                                                       | 15,300       | 44,967        | 194        |
| Wages and salaries paid . . . . .                                                            | \$11,000,000 | \$101,364,636 | 821        |
| The average wage paid mill workers in 1946 was \$2,103 while the average salary was \$3,033. |              |               |            |

Source: Dominion Bureau of Statistics.

Table 58.  
Domestic Trade 1946

|                                                            | Pulp and Paper | Paper         |
|------------------------------------------------------------|----------------|---------------|
| Gross value of production . . . . .                        | \$527,814,916  | \$396,956,390 |
| Exports . . . . .                                          | 401,458,464    | 284,196,790   |
| For domestic market . . . . .                              | \$126,356,452  | \$112,759,600 |
| Per cent of production retained for domestic use . . . . . | 23.9           | 28.4          |

Source: Dominion Bureau of Statistics.

Table 59.  
Expenditures 1946

|                                           |               |
|-------------------------------------------|---------------|
| Woods and mill wages, estimated . . . . . | \$195 million |
| Purchases . . . . .                       | 228           |
| Total . . . . .                           | \$423 million |

Table 60.  
Purchases 1946

|                                       |               |
|---------------------------------------|---------------|
| Transportation† . . . . .             | \$ 85,000,000 |
| Chemicals and mill supplies . . . . . | 42,108,628    |
| Fuel . . . . .                        | 22,838,178    |
| Electricity . . . . .                 | 23,363,822    |
| Fibre and fibre stock*1. . . . .      | 8,637,495     |
| Purchased pulpwood** . . . . .        | 32,000,000    |
| Foods*** . . . . .                    | 12,000,000    |
| Fodder*** . . . . .                   | 2,000,000     |
| Total purchases more than . . . . .   | 227,948,123   |

† Estimate based on a 1943 expenditure of \$70,583,835 by the industry for transportation. In 1946, on the average the industry loaded 550 cars daily with pulp and paper. In addition, average daily carloadings of pulpwood and supplies moving to the mills would not be far below this figure.

\* Does not include purchases of woodpulp by paper mills.

\*\* Estimate. The wage bill of those cutting this wood is included in the estimated \$94 million received by woods workers.

\*\*\* Estimate.

Table 61.  
Purchases of Mill Supplies 1946

|                                                     |               |
|-----------------------------------------------------|---------------|
| Chemicals, minerals, size, glue, dyes, etc. . . . . | \$ 19,114,677 |
| Pulp stones . . . . .                               | 488,439       |
| Machine clothing (woollen felts) . . . . .          | 4,419,992     |
| Miscellaneous supplies . . . . .                    | 13,294,939    |
| Mill wrapping and packing material . . . . .        | 2,886,110     |
| Wire mesh (fourdrinier & cylinder) . . . . .        | 1,904,471     |
|                                                     | \$ 42,108,628 |

Source: Dominion Bureau of Statistics.

Table 62.  
Fuel Purchases 1946

|                                                   |               |
|---------------------------------------------------|---------------|
| Quebec . . . . .                                  | \$ 8,723,726  |
| Ontario . . . . .                                 | 7,959,578     |
| British Columbia . . . . .                        | 2,640,215     |
| New Brunswick, Nova Scotia and Manitoba . . . . . | 3,514,659     |
|                                                   | \$ 22,838,178 |

Source: Dominion Bureau of Statistics.

Table 63.  
Electricity Purchased 1946

|                                                   |               |
|---------------------------------------------------|---------------|
| Quebec . . . . .                                  | \$ 16,350,883 |
| Ontario . . . . .                                 | 4,728,866     |
| British Columbia . . . . .                        | 88,347        |
| New Brunswick, Nova Scotia and Manitoba . . . . . | 2,195,726     |
|                                                   | \$ 23,363,822 |

Note: In addition to purchased electricity the pulp and paper mills own hydro-electric plants which furnished 2,163,387,000 kilowatt hours of electricity to the mills in 1946.

Source: Dominion Bureau of Statistics.

Table 64.  
Industry Car Loadings

For 52 weeks ending December 29, 1946

|                          |         |
|--------------------------|---------|
| Pulp and Paper . . . . . | 199,033 |
| Pulpwood . . . . .       | 191,171 |

This is the equivalent of 550 cars of pulp and paper, and 524 cars of pulpwood every day in the year. It should be noted that pulpwood car loadings include pulpwood for export.

Source: Dominion Bureau of Statistics.

Table 65.  
Payrolls and Weekly Earnings  
in Important Industries  
1946

| Industry                                                 | Average Number of Employees | Average Weekly Payrolls | Average Weekly Earnings |
|----------------------------------------------------------|-----------------------------|-------------------------|-------------------------|
| Pulp & Paper . . . . .                                   | 44,236                      | \$ 1,803,668            | \$ 40.63                |
| Non-ferrous metal products* . . . . .                    | 41,257                      | 1,471,903               | 35.64                   |
| Chemicals** . . . . .                                    | 41,520                      | 1,451,503               | 34.96                   |
| Meat packing & slaughtering . . . . .                    | 21,958                      | 710,597                 | 32.35                   |
| Shipbuilding . . . . .                                   | 26,076                      | 976,922                 | 37.55                   |
| Automobiles & parts . . . . .                            | 35,150                      | 1,344,199               | 38.16                   |
| Electrical apparatus . . . . .                           | 42,126                      | 1,399,842               | 33.20                   |
| Crude, rolled and forged iron & steel products . . . . . | 32,583                      | 1,206,515               | 36.93                   |
| Rubber products . . . . .                                | 20,578                      | 669,424                 | 32.61                   |
| Leather products . . . . .                               | 32,178                      | 811,106                 | 25.48                   |

Note: Pulp and paper payrolls do not include woods workers.

\* Includes the manufacture of non-ferrous metal products, as well as the smelting and refining of non-ferrous metals.

\*\* Includes all classes of chemical manufactures.

Source: Dominion Bureau of Statistics.

Table 66.

## Power Utilization

| 000's of k.w.h. |                              |                   |                     |              |                          |
|-----------------|------------------------------|-------------------|---------------------|--------------|--------------------------|
|                 | All manufacturing industries | Mining Industries | Total Mfg. & mining | Pulp & Paper | % of Total Mfg. & Mining |
| 1939 . . .      | 19,430,434                   | 1,761,339         | 21,191,773          | 11,084,776   | 52.3                     |
| 1940 . . .      | 20,595,914                   | 1,854,204         | 22,450,118          | 10,258,138   | 45.7                     |
| 1941 . . .      | 23,130,080                   | 2,081,407         | 25,211,487          | 9,208,371    | 36.5                     |
| 1942 . . .      | 26,996,286                   | 2,010,231         | 29,006,517          | 8,695,762    | 30.0                     |
| 1943 . . .      | 29,611,339                   | 1,894,917         | 31,506,256          | 8,039,026    | 25.5                     |
| 1944 . . .      | 28,529,363                   | 2,535,077         | 31,064,440          | 8,168,677    | 29.2                     |
| 1945 . . .      | 26,348,995                   | 1,968,321         | 28,317,316          | 10,854,371   | 41.2                     |
| 1946 . . .      | a                            | a                 | a                   | 13,361,133   | a                        |

a: Not yet available.

Source: Dominion Bureau of Statistics.

Table 67.

## Canadian Exports 1946

| Ex gold in millions of dollars              |           |     |
|---------------------------------------------|-----------|-----|
|                                             | Value     | %   |
| Forest products . . . . .                   | \$ 625.6  | 27  |
| Agricultural & vegetable products . . . . . | 578.5     | 25  |
| Animal & animal products . . . . .          | 358.5     | 16  |
| All others . . . . .                        | 749.6     | 32  |
|                                             | \$2,312.2 | 100 |

Source: Dominion Bureau of Statistics.

Table 68.

## Pulp and Paper and Mining 1946

|                                                             |                |
|-------------------------------------------------------------|----------------|
| Gross value of pulp and paper production . . . . .          | \$527,814,916* |
| Mineral production of Canada:                               |                |
| Gold . . . . .                                              | \$103,180,888  |
| Other metallics . . . . .                                   | 186,523,321    |
| Coal, gas, peat, petroleum . . . . .                        | 100,734,412    |
| Other non-metallics . . . . .                               | 41,987,203     |
| Clay products, cement, lime, stone, sand & gravel . . . . . | 61,414,604     |
|                                                             | \$493,850,428  |

\* During the first eight months of 1947, pulp and paper exports amounted to \$354,684,307, a rate equivalent to \$532,000,000 for the full year. As exports normally account for 75 per cent of the output of the industry, the gross value of pulp and paper production is now running at a rate exceeding \$700,000,000 annually.

Source: Dominion Bureau of Statistics.

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