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Reference tables

CANADIAN PULP AND PAPER ASSOCIATION
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Introduction

These tables annually present a picture of pulp and paper operations, their intimate relationship with the forest resources and the forest crop, and their importance to the economy of Canada.

Every effort has been made to include as many 1964 figures as possible; but in many instances it has been impossible either to obtain the 1964 figures or to provide informed estimates. Particularly is this so of 1964 dollar value figures, many of which will not be available from government sources until the end of 1965.

The tables show that among all Canadian manufacturing industries, pulp and paper continues to rank first in selling value of factory shipments, value added by manufacture, salaries and wages, employment, and exports. They show, too, that pulp and paper and pulpwood account for about one in every ten freight cars loaded in Canada; and that pulp and paper mills consume about one-fifth of all the electric power consumed in Canada.

In the field of foreign trade, the tables show that during 1964, pulp and paper exports amounted to \$1,368 million. This was equivalent to 17 per cent of all Canada's domestic exports, and to 25.4 per cent of Canada's exports to the United States.

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

Montreal, August, 1965

"A"—FORESTS AND PULPWOOD

Table 1. Forest Extent — 1963

Total Land Area of Canada (excluding rivers and lakes)	Square Miles 3,560,238
NET AREA (excluding rivers and lakes)	
Forested Areas of Canada	1,710,788
All of which, save for 275,800 square miles, lies within the ten provinces.	
Forested Areas Classified as Unproductive	742,842
Small trees in adverse locations not expected to reach merchantable size.	
Productive Forest Areas	967,946
About half of the accessible productive forest area bears trees classified as merchantable (4 inches DBH and over); the remainder is young growth.	

Source: Department of Forestry.

Table 2. Forest Volume — 1963

Estimated stands in 000,000's of cubic feet of merchantable timber			
	Conifers	Broad-leaved	Total
Newfoundland	13,719	577	14,296
Prince Edward Island	175	75	250
Nova Scotia	6,469	3,313	9,782
New Brunswick	11,948	4,923	16,871
Quebec	84,371	23,761	108,132
Ontario	66,654	44,915	111,569
Manitoba	9,725	3,121	12,846
Saskatchewan	12,681	10,391	23,072
Alberta	30,897	24,063	54,960
British Columbia	357,132	19,787	376,919
Yukon Territory	7,386	1,770	9,156
Northwest Territories	10,120	3,909	14,029
Canada	611,277	140,605	751,882

Source: Department of Forestry.

Table 3. Forest Consumption

Average Annual Depletion 1953-1962			
Products Utilized:	000's of cu. ft.	% Utilized	% Depleted
Logs and bolts for domestic use	1,608,424	49.8	42.9
Logs and bolts for export	8,399	0.3	0.2
Pulpwood for domestic use	1,153,597	35.7	30.7
Pulpwood for export	128,933	4.0	3.4
Fuelwood and wood for charcoal	276,731	8.5	7.4
Poles and timber and round mining timber	35,767	1.1	1.0
Miscellaneous	20,502	0.6	0.5
	3,232,353	100.0	86.1
Wastage by Forest Fire	521,167		13.9
	3,753,520		100.0

The figure for depletion does not include wastage caused by agencies other than fire, such as insects, diseases, and natural mortality, for which no reliable estimates are available.

Source: Dominion Bureau of Statistics.

Table 4. Depletion and Growth

Pulp and Paper Woodlands

The pulp and paper mills lease some 183,000 square miles of forest, from which they obtain each year about nine million cords of wood, or approximately two-thirds of their total requirements.

Scientific measurements all reveal that the overall growth in these leased forests exceeds the cut plus all other losses. This excess of growth serves to increase the standing volume of pulpwood which, in most instances, will render the acreage more productive and so permit larger annual harvests to meet the growing needs of the future.

The National Forests

The inventory of productive forests which cover a quarter of Canada's land area, is nearing completion. Simultaneously, a large quantity of new information relating to growth rates in the productive forests is being assembled. Preliminary estimates indicate that annual growth rates over a considerable portion of the productive forests range as high as 25 to 40 cubic feet per acre. On the other hand, the last available estimates of annual depletion on accessible productive forests averaged about 8 cubic feet per acre, including cutting and losses from fire.

Table 5. Forest Holdings — 1963

NET AREA (excluding rivers and lakes)				
	Total Sq. Miles	%	Productive Sq. Miles	%
Occupied Forest Lands:				
Provincial Crown:				
Leases and licenses	285,812	16.7	214,031	22.1
Permits and sales	4,063	.2	3,963	.4
Other lands	17	*	16	*
	289,892	16.9	218,010	22.5
Federal Crown:				
Leases and licenses	365	*	320	*
Other lands	7,752	.4	3,938	.4
	8,117	.5	4,258	.4
Privately owned:				
Farm woodlots	26,868	1.6	25,274	2.6
Other private lands	69,070	4.0	64,339	6.7
	95,938	5.6	89,613	9.3
Total Occupied Forest Lands	393,947	23.0	311,881	32.2
Unoccupied Forest Lands:				
Provincial Crown	1,021,470	60.0	571,653	59.1
Federal Crown	295,371	17.0	84,412	8.7
Total Unoccupied Forest Lands	1,316,841	77.0	656,065	67.8
Total Forest Lands	1,710,788	100.0	967,946	100.0

*Less than 0.05%.

Source: Department of Forestry.

Table 6. Pulpwood Consumption, by Provinces, 1963

	Roundwood Cords	Wood Residue Cords (a)
Atlantic Provinces	2,426,481	334,601
Quebec	5,742,957	485,541
Ontario	3,881,414	260,291
Prairie Provinces	504,018	—
British Columbia	2,417,246	1,870,773
	14,972,116	2,951,206

a: Rough cord equivalents.

Source: Dominion Bureau of Statistics.

Table 7. Species of Wood Used by Pulp and Paper Mills — 1963

Roundwood:	Cords	Per Cent
Spruce and Balsam	10,985,774	61.3
Hemlock	1,498,286	8.4
Jack Pine	1,136,766	6.3
Other softwoods	257,088	1.4
Poplar, Aspen and Cottonwood	525,089	2.9
Other hardwoods	569,113	3.2
	14,972,116	83.5
Wood residue(*)	2,951,206	16.5
	17,923,322	100.0

(*) — Includes chips, slabs, edgings, sawdust, shavings, butts, cores, reject lumber, and other wood-residue.

Source: Dominion Bureau of Statistics.

Table 8. Wood Measurement

A number of different measures for wood are used in Canada, and they can be related as follows:

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. One cord of peeled pulpwood is equivalent to 1.125 cords of rough or unpeeled wood.

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

A unit is a measure of wood chips. It usually contains between 70 and 75 cubic feet of solid wood.

In the lumber industry, wood usually is measured by the board foot. A board foot is equivalent to a board 1 inch thick and one square foot in surface area. The relationship between board measure and cord measure varies in different parts of Canada. Usually, two cords are considered to be equivalent to about 1,000 feet board measure. But this rate also varies with the size and type of wood.

Table 9. Pulpwood Consumption

(All quantities are given in terms of rough or unpeeled wood)					
	Roundwood(a)		Wood Residue(b)		Total
	Cords	Value(c)	Cords	Value	
1920	2,777,422	\$ 45,404,889	—	—	2,777,422 \$ 45,404,889
1925	3,668,959	48,012,602	—	—	3,668,959 48,012,602
1930	4,741,349	54,788,730	—	—	4,741,349 54,788,730
1935	5,005,083	34,265,329	—	—	5,005,083 34,265,329
1936	5,775,894	40,455,656	—	—	5,775,894 40,455,656
1937	6,613,639	51,081,661	—	—	6,613,639 51,081,661
1938	4,718,556	40,317,797	1,197e	8,892	4,719,753 40,326,689
1939	5,384,168	46,544,595	2,072e	14,050	5,386,240 46,558,645
1940	7,107,791	62,192,899	7,433e	90,719	7,115,224 62,283,618
1941	7,739,289	72,018,149	39,920e	374,945	7,779,209 72,393,094
1942	7,857,373	83,037,499	41,754e	479,608	7,899,127 83,517,107
1943	7,420,639	91,921,656	45,585e	629,203	7,466,224 92,550,859
1944	7,323,226	103,898,761	52,618e	868,170	7,375,844 104,766,931
1945	7,642,652	121,768,939	46,034e	885,177	7,688,686 122,654,116
1946	8,968,982	155,160,308	95,171	1,706,725	9,064,153 156,867,033
1947	9,751,586	203,738,527	117,041	2,528,179	9,868,627 206,266,706
1948	10,470,687	242,338,302	163,819	2,937,711	10,634,506 245,276,013
1949	10,470,481	240,379,337	154,580	2,157,141	10,625,061 242,536,478
1950	11,434,426	252,664,002	217,438	2,841,753	11,651,864 255,505,755
1951	12,634,426	316,600,016	324,693	8,522,006	12,959,119 325,122,022
1952	11,991,074	334,676,955	317,556	8,242,632	12,308,630 342,919,587
1953	12,109,658	329,087,065	440,040	9,476,414	12,549,698 338,563,479
1954	12,981,008	332,853,603	669,410	11,774,974	13,650,418 344,628,577
1955	13,629,413	340,076,962	802,621	15,541,175	14,432,034 355,518,137
1956	14,031,855	369,263,045	936,370	18,882,759	14,968,225 388,145,804
1957	13,367,088	361,151,710	1,091,805	20,828,204	14,458,893 381,979,914
1958	12,624,165	338,226,407	1,243,108	22,300,804	13,867,273 360,527,211
1959	13,535,051	349,827,131	1,455,651	25,185,120	14,990,702 375,012,251
1960	14,115,996	361,858,672	1,786,257	31,091,512	15,902,253 392,950,184
1961	14,437,456	365,330,191	2,102,563	36,181,817	16,540,019 401,512,008
1962	14,911,436	368,960,268	2,428,737	43,797,018	17,340,173 412,757,286
1963	14,972,116	371,120,472	2,951,206	53,287,998	17,923,322 424,408,470
1964	15,970,000p	n.a.	3,750,200e	n.a.	19,720,200e n.a.

a: Whole logs and bolts. Figures for 1920-37 include small quantities of wood residue.

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

c: Sum of values reported by pulp mills for roundwood used (delivered price).

p: Preliminary.

e: Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.

Table 11. Pulpwood Exports

(All quantities are given in terms of rough or unpeeled wood)					
	Roundwood(a)		Wood Residue(b)		Total
	Cords	Value(c)	Cords	Value	
1920	1,247,404	\$15,778,171	—	—	1,247,404 \$15,778,171
1925	1,423,502	14,168,935	—	—	1,423,502 14,168,935
1930	1,330,466	13,611,617	—	—	1,330,466 13,611,617
1935	1,109,873	7,041,052	—	—	1,109,873 7,041,052
1936	1,235,754	8,276,423	—	—	1,235,754 8,276,423
1937	1,705,031	12,088,329	—	—	1,705,031 12,088,329
1938	1,752,259	13,641,798	—	—	1,752,259 13,641,798
1939	1,539,440	11,901,480	—	—	1,539,440 11,901,480
1940	1,551,600	12,521,880	—	—	1,551,600 12,521,880
1941	1,856,414	15,928,826	—	—	1,856,414 15,928,826
1942	1,993,667	20,314,253	—	—	1,993,667 20,314,253
1943	1,545,986	18,565,265	—	—	1,545,986 18,565,265
1944	1,509,268	20,012,285	—	—	1,509,268 20,012,285
1945	1,684,421	23,881,928	—	—	1,684,421 23,881,928
1946	1,867,593	28,731,150	—	—	1,867,593 28,731,150
1947	2,001,477	34,528,884	—	—	2,001,477 34,528,884
1948	2,352,552	43,572,868	—	—	2,352,552 43,572,868
1949	1,644,253	30,383,947	68,436	932,645	1,712,689 31,316,592
1950	1,782,134	33,589,962	89,180	1,177,916	1,871,314 34,767,878
1951	2,893,615	66,077,108	139,297	2,025,834	3,032,912 68,102,942
1952	2,529,353	61,837,059	166,732	2,982,696	2,696,085 64,819,755
1953	1,783,657	42,703,886	196,723	3,155,478	1,980,380 45,859,364
1954	1,826,193	41,900,417	249,289	3,865,265	2,075,482 45,765,682
1955	1,882,784	43,273,977	344,422	5,381,163	2,227,206 48,655,140
1956	1,953,470	44,206,488	350,279	5,587,685	2,303,749 49,794,173
1957	1,800,411	42,331,768	369,572	6,126,999	2,169,983 48,458,767
1958	1,286,479	29,943,516	281,611	4,711,117	1,568,090 34,654,633
1959	1,107,484	25,705,661	246,939	4,031,535	1,354,423 29,737,196
1960	1,151,899	25,839,709	330,492	5,346,648	1,482,391 31,186,357
1961	1,061,048	27,156,575	402,814	6,654,713	1,463,862 33,811,288
1962	1,224,958	28,597,118	412,667	7,135,270	1,637,625 35,732,388
1963	1,113,705	25,903,045	562,115	10,082,286	1,675,820 35,985,331
1964	1,235,416	28,488,688	471,824	8,335,046	1,707,240 36,823,734

a: Whole logs and bolts.

b: Pulpwood chips only. Exports reported in tons have been converted to rough cords on the basis of two tons per "unit" (of 200 cubic feet of loose chips), 71 cubic feet of solid wood per "unit", and one rough cord equals 85 cubic feet of solid wood.

c: Actual amount received, exclusive of all charges (freight, insurance, handling, etc.)

Source: Dominion Bureau of Statistics.

Table 10. Pulpwood Production

	Roundwood (a)	
	Cords	Value(b)
1920	4,024,826	\$61,183,060
1925	5,092,461	62,181,537
1930	5,977,183	67,529,612
1935	6,095,016	41,195,871
1936	7,002,057	48,680,200
1937	8,298,165	63,057,205
1938	6,438,344	53,761,999
1939	6,899,986	58,302,668
1940	8,716,541	74,731,002
1941	8,396,953	74,878,637
1942	8,723,259	86,946,706
1943	8,987,188	104,183,817
1944	9,643,318	126,851,350
1945	10,973,094	159,450,381
1946	12,384,844	196,624,029
1947	13,657,129	249,911,951
1948	13,814,988	271,560,306
1949	10,308,776	202,544,308
1950	13,424,353	280,837,687
1951	18,156,282	416,196,281
1952	14,755,082	346,082,085
1953	13,545,176	309,011,150
1954	14,739,565	323,800,478
1955	16,087,953	369,476,288
1956	17,469,334	419,470,968
1957	14,967,604	340,235,102
1958	12,764,459	275,153,906
1959	14,357,039	320,244,307
1960	16,612,238	356,916,000
1961	15,474,266	369,663,000
1962	14,615,205	343,443,000r
1963	15,547,019p	366,900,000e
1964	17,158,759p	n.a.

a: Whole logs and bolts, 1920-39, quantity and value estimated on the basis of consumption, plus exports, minus imports. Since 1940, quantity calculated from annual wood cut data for Provincial and Federal Crown Lands, D.B.S. surveys for wood cut on private lands and decennial census data on production of forest products on farm woodlots. No data available on production of wood-residue which is also used for purposes other than making pulp.

b: Unit values obtained from D.B.S. annual surveys are applied to total volume estimates for pulpwood and other forest products.

p: Preliminary.

r: Revised.

e: Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.

Table 12. Pulpwood Imports

	Roundwood (a)	
	Cords	Value(b)
1928	32,674	\$260,244
1929	37,082	295,813
1930	94,632	707,735
1935	19,940	110,510
1936	9,591	51,879
1937	20,505	112,785
1938	33,668	206,488
1939	25,694	157,457
1940	47,626	404,903
1941	81	325
1942	1,714	13,972
1943	2,379	28,747
1944	8,209	126,048
1945	4,133	57,074
1946	16,881	195,800
1947	50,508	557,731
1948	75,969	1,254,351
1949	5,491	65,304
1950	28,220	491,344
1951	46,634	756,278
1952	31,060	559,358
1953	48,805	878,687
1954	105,030	1,657,083
1955	134,917	2,060,005
1956	188,144	2,947,688
1957	179,614	2,858,726
1958	146,835	2,175,702
1959	147,766	2,711,234
1960	227,649	3,770,182
1961	206,726	3,562,891
1962	149,884	2,730,314
1963	129,719	2,437,248
1964	113,644	2,023,789

a: Whole logs and bolts.

b: Sum of values f.o.b. point of shipment in the countries of export (excluding such charges as freight, insurance, handling, and taxes).

Source: Dominion Bureau of Statistics.

"B"—FROM WOOD TO MARKETS

This section contains a summary of the industry's operations, relating production and markets to the pulpwood harvest.

Table 13. Pulpwood Supply, 1963

	Cords (a)	Value (b)
Pulpwood* Production, by Provinces:		
Quebec	6,249,738	
Ontario	3,619,273	
British Columbia	2,465,888	
Other Provinces	3,212,120	
Canada	15,547,019 ^p	\$366,900,000 ^e
Pulpwood* Imports	129,719	2,437,248
Total New Supply	15,676,738	\$369,337,248
Pulpwood* Exports	1,113,705	\$ 25,903,045
Wood Used in Canadian Mills:		
Roundwood	14,972,116	371,120,472
Other Wood (c)	2,951,206	53,287,998
Total Wood Used	17,923,322	\$424,408,470

*Roundwood only, i.e., whole logs and bolts.

(a) Quantities are given in terms of rough or unpeeled wood. One cord of peeled pulpwood is equivalent to 1.125 cords of rough or unpeeled wood.

(b) Values of pulpwood production, imports, exports and consumption are not comparable, chiefly because transportation costs differ.

(c) Residual wood, such as sawmill and veneer mill chips, slabs and edgings, sawdust and butts and cores. The quantity given represents rough cord equivalents.

^p: Preliminary.

^e: Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.

Table 14. Pulp Supply, 1963

From the 17,923,322 cords of wood used in the mills, the following pulps were manufactured in 1963:

	Tons	Value
Groundwood pulp	5,849,543	\$ 402,477,013
Chemical pulp	6,215,550	701,122,602
Other pulp(a)	409,014	27,469,103
Total Wood-Pulp Production	12,474,107	\$1,131,068,718
Wood-Pulp imports	74,208	10,264,227
	12,548,315	\$1,141,332,945

In addition to wood-pulp, the following fibrous materials were used in 1963 in the production of certain grades of paper and paperboard:

Rag, cotton and flax waste and sweepings, and cotton linters	15,201	\$ 1,479,509
Old and waste paper and broke (purchased)	497,934	16,303,143
Other paper stock(b)	57,100 ^e	1,356,101
Total Other Stock Used	570,235	\$ 19,138,753
Total Stock	13,118,550	\$1,160,471,698

Pulp inventories at pulp and paper mills at the beginning of the year	196,018 ^e	21,215,649 ^e
Total	13,314,568 ^e	\$1,181,687,347 ^e

Less pulp inventories at pulp and paper mills at the end of the year	136,108 ^e	15,424,080 ^e
Sold, or converted into paper, paperboard and other board	13,178,460 ^e	\$1,166,263,267 ^e

(a) Includes screenings, off-quality, semi-chemical, defibrated and exploded pulp.

(b) Includes purchased side-runs, flax fibre, fibre and leather scrap, manilla stock, etc.

^e: Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.

Table 15. Shipments by Products, 1963

From the 13,178,460 tons of pulp available for conversion or sale in 1963 the following products were manufactured and shipped:

	Tons	%	Value	%
Wood-pulp:				
Chemical	3,707,935	28.38	\$ 458,773,642	26.60
Mechanical and other grades	314,719	2.41	20,266,329	1.18
Total Wood-Pulp(a)	4,022,654	30.79	\$ 479,039,971	27.78
Newsprint (b)	6,639,094	50.81	\$ 809,247,407	46.93
Paperboard	1,204,874	9.22	173,093,545	10.04
Building boards	218,632 ^e	1.67	34,598,480	2.00
Book and writing papers	459,930	3.52	126,650,616	7.34
Wrapping papers	333,967	2.55	72,457,208	4.20
Tissue and sanitary papers	87,146	.67	19,492,904	1.13
Building papers	85,332	.65	6,108,854	.36
Special industrial papers and Wet machine boards	15,002	.12	3,863,192	.22
Total Paper and Board	9,043,977	69.21	\$1,245,512,205	72.22

Total Shipments of Pulp and Paper (c)	13,066,631	100.00	\$1,724,552,176	100.00
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Converted paper products			89,328,841	
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By-products and miscellaneous services			15,480,293	
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Total Value of Mill Shipments			\$1,798,400,724	
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Less adjustment for duplication			5,169,657	
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Adjusted value of shipments and work done			\$1,793,231,067	
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a: Including shipments to subsidiary or affiliated companies.

b: Dominion Bureau of Statistics classification includes some grades not classed as newsprint by the Newsprint Association of Canada.

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

^e: Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.

Table 16. Shipments by Areas, 1963

	Tons	%	Value	%
Total shipments of pulp, paper and paperboard(a)	13,066,631	100.00	\$1,724,552,176	100.00
Used in Canada	3,070,106	23.50	502,456,235	29.14
Exported to:(b)				
United States	7,940,219	60.77	964,749,067	55.94
United Kingdom	931,444	7.13	118,833,196	6.89
Japan	170,217	1.30	20,404,621	1.18
Australia and New Zealand	146,151	1.12	20,466,230	1.19
Central America and Antilles	142,958	1.09	18,421,737	1.07
South America	213,479	1.63	25,654,359	1.49
Western Europe	253,931	1.94	29,585,705	1.71
All Others	198,176	1.52	23,981,026	1.39

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

b: Paper products for which tonnage not available, valued at \$4,034,209, excluded.

Source: Dominion Bureau of Statistics.

Table 17.

Pulp, Paper, Paper Products, and Pulpwood Exports 1964

	Total Exports		To U.S.A.		To United Kingdom		To Other Countries	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
PULP —								
Dissolving and Special Alpha (Sulphite and Sulphate)	401,697	\$ 71,122,996	294,783	\$ 53,291,634	23,100	\$ 4,128,341	83,814	\$ 13,703,021
Sulphate — Paper Grades	2,018,268	259,161,508	1,514,138	197,215,535	117,750	14,653,875	386,380	47,292,098
Bleached	1,505,417	204,225,355	1,159,114	159,927,115	75,779	9,929,951	270,524	34,368,289
Semi-bleached	191,710	22,646,824	99,804	11,901,317	17,509	2,004,740	74,397	8,740,767
Unbleached	321,141	32,289,329	225,220	25,387,103	24,462	2,719,184	41,459	4,183,042
Sulphite — Paper Grades	885,169	106,789,686	635,758	78,348,824	124,136	14,786,893	125,275	13,653,969
Bleached	627,201	79,830,752	516,191	66,011,698	53,500	6,880,587	57,510	6,938,467
Unbleached — Strong	216,846	22,457,325	116,685	12,055,640	37,117	4,147,151	63,044	6,254,534
Unbleached — News Grade	41,122	4,501,609	2,881	281,486	35,519	3,759,155	4,722	460,968
Total Chemical	3,305,134	\$ 437,074,190	2,444,679	\$ 328,855,993	264,986	\$ 33,569,109	595,469	\$ 74,649,088
Mechanical	285,534	18,528,213	196,987	13,296,542	67,296	4,029,750	21,251	1,201,921
Bleached	13,175	1,041,027	13,175	1,041,027	—	—	—	—
Unbleached	272,359	12,255,515	183,812	12,255,515	67,296	4,029,750	21,251	1,201,921
Other Pulps	38,697	5,085,638	28,358	3,698,547	6,381	864,681	3,958	522,410
Screenings	6,916	165,880	6,916	165,880	—	—	—	—
Chemical	3,153	109,435	3,153	109,435	—	—	—	—
Mechanical	3,763	56,445	3,763	56,445	—	—	—	—
Total Miscellaneous	331,147	\$ 23,779,731	232,261	\$ 17,160,969	73,677	\$ 4,894,431	25,209	\$ 1,724,331
TOTAL PULP	3,636,281	\$ 460,853,921	2,676,940	\$ 346,016,962	338,663	\$ 38,463,540	620,678	\$ 76,373,419
NEWSPRINT PAPER —								
Standard	6,815,629	834,646,119	5,675,627	689,405,679	480,332	61,791,304	659,670	83,449,136
Mutilated	65,966	4,034,077	38,072	2,318,890	4,542	269,416	23,352	1,445,771
TOTAL NEWSPRINT	6,881,595	\$ 838,680,196	5,713,699	\$ 691,724,569	484,874	\$ 62,060,720	683,022	\$ 84,894,907
OTHER PAPER —								
Wrapping Paper	32,376	5,708,257	9,316	1,983,523	19,843	3,079,097	3,217	645,637
Bleached Sulphite and Sulphate	9,065	1,994,718	8,048	1,694,954	793	222,964	224	76,800
Unbleached Sulphite and Sulphate	19,985	3,096,010	1,092	220,042	16,071	2,345,932	2,822	530,036
Wrapping — n.o.p.	3,326	617,529	176	68,527	2,979	510,201	171	38,801
Book and Writing Paper	107,503	21,072,329	56,696	8,817,628	27,857	6,449,351	22,950	5,805,350
Groundwood Printing — n.o.p.	68,635	10,933,715	52,707	8,004,678	11,097	1,849,960	4,831	1,079,077
Book — n.o.p.	4,938	1,056,730	3,061	567,428	1,261	313,460	616	175,842
Writing and Reproduction	29,405	7,920,075	921	242,584	15,444	4,267,941	13,040	3,409,550
Fine Paper — n.o.p.	4,525	1,161,809	7	2,938	55	17,990	4,463	1,140,881
Paperboard	179,320	20,818,954	18,853	2,248,342	131,302	15,698,978	29,165	2,871,634
Container Board	151,005	17,024,661	262	27,619	123,613	14,464,962	27,130	2,532,080
Solid Bleached and Folding Box-board	5,649	997,645	123	19,974	5,396	962,518	130	15,153
Set-up Boxboard — n.o.p.	6,780	948,055	5,055	724,796	447	75,448	1,278	147,811
Pulpboard for Building Board	—	—	—	—	—	—	—	—
Wet Machine Board	1,319	365,245	736	204,854	14	2,415	569	157,976
Paperboard — n.o.p.	14,567	1,483,348	12,678	1,271,099	1,832	193,635	57	18,614
Building Board	42,068	4,471,837	34,739	3,529,421	1,187	152,463	6,142	789,953
Rigid Insulating Board	19,481	2,267,206	15,141	1,690,440	814	102,933	3,526	473,833
Hardboard	20,085	1,851,471	18,707	1,745,408	371	49,355	844	56,708
Building Board — n.o.p.	2,502	353,160	728	93,573	2	175	1,772	259,412
Building Paper	12,863	1,072,495	2,965	305,074	469	57,201	9,429	710,220
Tissue Paper, except Sanitary	195	49,735	8	4,196	11	2,860	176	42,679
Sanitary Paper	14,621	3,409,832	481	129,517	8,434	2,041,017	5,706	1,239,298
Hanging Paper	2,840	412,586	1,930	313,373	910	99,213	—	—
Special Industrial Paper	1,670	381,957	56	20,141	1,192	207,651	422	154,165
Coated Paper, except Machine Coated	1,276	582,316	407	191,338	194	106,187	675	284,791
Waste Paper — n.o.p.	47,868	2,186,181	46,640	2,097,160	106	7,240	1,122	81,781
TOTAL OTHER PAPER	442,600	\$ 60,166,479	172,090	\$ 19,639,713	191,506	\$ 27,901,258	79,004	\$ 12,625,508
PAPER PRODUCTS —								
Paper Bags and Multiwall Sacks	—	578,756	—	22,528	—	20,849	—	535,379
Paper Containers and Parts — n.o.p.	—	1,350,453	—	481,231	—	12,823	—	856,399
Wall Paper — Printed	—	1,804,955	—	1,174,725	—	72,459	—	557,771
Packaged Toilet Paper	3,343	983,745	124	38,313	1,300	435,372	1,919	510,060
Notebooks, Scribbles and Pads	—	253,142	—	4,870	—	—	—	248,272
Stationery, Paper Office Supplies, n.e.s.	—	531,345	—	141,610	—	36,570	—	353,165
Converted Paper — n.o.p.	4,730	3,393,566	3,174	1,370,382	582	932,743	974	1,090,441
Paper End Products — n.o.p.	—	134,791	—	51,259	—	48,194	—	35,338
TOTAL PAPER PRODUCTS	8,073	\$ 9,030,753	3,298	\$ 3,284,918	1,882	\$ 1,559,010	2,893	\$ 4,186,825
TOTAL PULP, PAPER AND PAPER PRODUCTS	10,968,549	\$ 1,368,731,349	8,566,027	\$ 1,060,666,162	1,016,925	\$ 129,984,528	1,385,597	\$ 178,080,659
PULPWOODS —								
Pulpwood (b)	1,129,045	\$ 28,488,688	676,065	\$ 14,939,070	82,503	\$ 2,777,106	370,477	\$ 10,772,512
Chips	1,129,720	\$ 8,335,046	1,122,780	\$ 8,286,106	—	—	6,940	\$ 48,940
GRAND TOTAL	—	\$ 1,405,555,083	—	\$ 1,083,891,338	—	\$ 132,761,634	—	\$ 188,902,111

NOTE: Because quantities reported in hundredweights have been converted into tons, breakdowns by grades or countries do not always cross-add.

(a) Weight of most paper products is unavailable.

(b) Peeled and unpeeled cords.

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

Source: Dominion Bureau of Statistics.

"C"—PULP

All figures after 1948 include Newfoundland.

Table 18. Pulp Production and Exports

All grades: chemical, mechanical and screenings.				
	Production		Exports	
	Tons	Value	Tons	Value
1920	1,960,102	\$ 141,552,862	819,984	\$ 76,383,978
1925	2,772,507	100,216,383	961,367	47,931,905
1930	3,619,345	112,355,872	760,220	39,059,979
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	87,897,148	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	95,266,873
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
1947	7,253,671	403,853,235	1,698,712	177,802,612
1948	7,675,079	485,966,164	1,797,998	211,564,384
1949	7,852,998	445,138,494	1,548,706	170,675,310
1950	8,473,014	502,583,925	1,846,143	208,555,549
1951	9,314,849	727,880,005	2,243,307	365,132,884
1952	8,968,009	650,021,180	1,940,582	291,863,498
1953	9,077,063	624,865,504	1,950,152	248,674,880
1954	9,673,016	655,916,738	2,180,416	270,904,626
1955	10,150,547	693,402,831	2,366,133	297,304,069
1956	10,733,744	726,232,534	2,374,013	304,536,497
1957	10,425,295	706,194,649	2,282,656	292,406,102
1958	10,137,454	703,365,594	2,219,314	285,448,649
1959	10,832,200	744,940,432	2,450,027	311,252,798
1960	11,461,489	772,626,099	2,601,458	325,121,572
1961	11,779,165	796,290,768	2,868,845	346,660,713
1962	12,132,507	845,369,590	3,044,458	369,902,423
1963	12,474,107	1,131,068,718e	3,339,492	405,292,428
1964	13,724,692e	n.a.	3,636,281	460,853,921

e: Canadian Pulp and Paper Association estimate.
n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 19. Chemical Pulp Production and Exports

All grades. Screenings not included.				
	Production		Exports	
	Tons	Value	Tons	Value
1915	331,029	n.a.	157,469	\$ 6,039,815
1920	848,528	\$ 90,053,999	515,640	58,809,172
1925	1,084,992	59,969,673	601,163	37,358,632
1930	1,265,057	63,156,351	527,800	32,677,201
1935	1,276,308	47,153,565	519,480	24,812,145
1936	1,462,659	53,356,519	597,512	28,170,044
1937	1,707,889	69,538,019	680,264	37,357,571
1938	1,124,312	47,990,730	421,597	24,717,328
1939	1,342,448	53,369,808	526,774	26,802,840
1940	1,879,812	92,553,463	857,192	54,548,202
1941	2,122,292	113,128,794	1,121,784	76,744,731
1942	2,246,438	126,208,457	1,213,587	84,417,370
1943	2,188,026	130,010,210	1,259,670	89,486,869
1944	2,109,169	138,140,452	1,156,442	91,070,546
1945	2,154,267	144,084,969	1,145,660	93,601,776
1946	2,427,087	172,756,674	1,131,148	100,895,930
1947	2,755,977	251,273,372	1,357,386	157,954,348
1948	2,997,281	310,338,614	1,481,449	191,723,253
1949	2,891,418	272,355,430	1,327,608	158,559,921
1950	3,314,250	323,330,963	1,584,393	194,228,568
1951	3,814,086	503,997,803	1,904,785	337,800,649
1952	3,518,127	423,789,033	1,675,114	271,120,438
1953	3,663,289	406,114,975	1,713,081	232,601,850
1954	4,057,046	433,359,934	1,937,534	254,616,166
1955	4,359,226	465,149,732	2,092,256	278,749,355
1956	4,645,493	463,880,858	2,083,068	284,256,137
1957	4,526,667	468,067,374	2,025,314	274,579,160
1958	4,445,310	471,590,838	1,979,079	269,008,332
1959	4,837,328	504,613,400	2,199,975	294,271,256
1960	5,203,799	522,539,122	2,355,351	308,467,432
1961	5,560,336	547,565,114	2,621,897	330,359,098
1962	5,882,432	587,592,532	2,774,928	351,921,132
1963	6,215,550	701,122,602e	3,082,907	388,224,436
1964	6,852,753e	n.a.	3,343,831	442,159,828

e: Canadian Pulp and Paper Association estimate.
n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 20. Chemical Pulp Exports

All grades. Screenings not included.				
	Sulphite	Sulphate	Other	Total
1931	385,421	54,993	3,488	443,902
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	1,056,487	183,291	19,892	1,259,670
1944	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
1947	1,018,808	316,711	21,867	1,357,386
1948	1,066,534	389,599	25,316	1,481,449
1949	838,059	470,160	27,471	1,335,690
1950	969,340	581,994	33,059	1,584,393
1951	1,162,360	709,467	32,958	1,904,785
1952	1,001,207	644,923	28,984	1,675,114
1953	972,508	705,659	34,914	1,713,081
1954	1,054,852	844,759	37,923	1,937,534
1955	1,158,830	892,138	41,288	2,092,256
1956	1,121,721	916,397	44,950	2,083,068
1957	966,669	1,015,843	42,802	2,025,314
1958	797,816	1,148,865	32,398	1,979,079
1959	785,281	1,376,409	38,285	2,199,975
1960	845,906	1,466,239	43,206	2,355,351
1961	634,398	1,634,604	352,895*	2,621,897
1962	704,683	1,681,066	389,179*	2,774,928
1963	786,492	1,883,355	413,060*	3,082,907
1964	885,169	2,018,268	440,394*	3,343,831

*Includes Dissolving and Special Alpha formerly reported as Sulphite or Sulphate.

Source: Dominion Bureau of Statistics.

Table 21. Pulp Exports to U.S.A., United Kingdom and Other Countries

All grades: chemical, mechanical and screenings.				
	United States Tons	United Kingdom Tons	Other Countries Tons	
1931	491,731	38,971	91,835	
1935	530,671	51,890	79,914	
1936	641,146	45,457	67,893	
1937	698,124	83,260	89,332	
1938	453,861	67,694	32,482	
1939	606,588	72,437	26,491	
1940	825,268	176,218	67,030	
1941	1,108,845	265,977	36,903	
1942	1,197,425	294,056	19,265	
1943	1,269,043	263,392	24,022	
1944	1,077,811	292,808	61,484	
1945	1,093,631	290,885	50,011	
1946	1,252,648	119,973	45,937	
1947	1,499,302	136,976	62,434	
1948	1,590,674	170,596	36,728	
1949	1,304,774	173,745	70,187	
1950	1,694,444	117,920	33,779	
1951	1,831,411	217,251	194,645	
1952	1,588,979	210,685	140,918	
1953	1,599,491	214,951	135,710	
1954	1,669,782	270,946	239,688	
1955	1,868,804	280,575	216,754	
1956	1,919,634	244,163	210,216	
1957	1,847,365	225,483	209,808	
1958	1,832,520	216,147	170,647	
1959	1,966,481	217,336	266,210	
1960	1,999,755	282,748	318,955	
1961	2,176,585	278,846	413,414	
1962	2,398,802	251,742	393,914	
1963	2,505,670	279,834	553,988	
1964	2,676,940	338,663	620,678	

Source: Dominion Bureau of Statistics.

Table 22. Destination of Sulphite and Sulphate Pulp Exports

To:	Sulphite*		Sulphate	
	1964 Tons	1963 Tons	1964 Tons	1963 Tons
North & Central America	942,808	870,638	1,515,437	1,425,774
United States	930,541	855,484	1,514,138	1,425,449
Mexico	9,791	12,682	226	303
Dominican Republic	1,299	2,200	—	—
Guatemala	119	158	1,045	—
Puerto Rico	1,058	99	—	—
El Salvador	—	—	28	22
Panama	—	15	—	—
South America	25,929	24,263	35,389	35,944
Argentina	20,163	17,401	18,429	7,648
Peru	—	321	6,191	8,112
Venezuela	981	1,919	4,575	10,199
Colombia	74	47	4,374	8,986
Brasil	3,577	3,729	744	555
Uruguay	1,134	846	1,043	411
Ecuador	—	—	33	33
Europe	222,185	170,416	295,718	251,172
United Kingdom	147,236	113,827	117,750	106,356
West Germany	9,175	5,010	74,821	52,502
Italy	27,755	18,828	28,823	42,173
France	13,403	13,164	32,668	27,212
Netherlands	2,117	2,099	26,198	11,676
Belgium and Luxembourg	4,550	2,132	7,435	5,189
Yugoslavia	9,075	3,091	—	154
Spain	3,504	1,819	1,616	732
Greece	3,914	5,251	—	—
Switzerland	330	495	3,185	2,973
Austria	437	529	2,326	1,426
Finland	125	110	896	779
Ireland	564	615	—	—
Sweden	—	3,446	—	—
Africa	4,958	3,533	848	33
Rep. of South Africa	3,120	1,571	820	—
Mozambique	780	331	—	—
U.A.R. — Egyptian Region	550	1,127	—	—
Southern Rhodesia	508	—	28	—
Federation of Rhodesia and Nyasaland	—	504	—	—
Tanganyika	—	—	—	33
Asia	80,337	77,127	142,592	143,039
Japan	52,004	42,920	126,939	123,577
Pakistan	7,932	12,399	12,855	1,120
India	18,583	18,339	—	—
Taiwan	—	220	2,490	9,938
Philippines	1,798	3,249	87	4,484
Korea	—	—	146	—
Malaysia	—	—	53	—
Thailand	—	—	22	—
Ceylon	20	—	—	560
Communist China	—	—	—	3,307
Malaya and Singapore	—	—	—	53
Oceania	10,649	12,584	28,284	27,393
Australia	8,413	12,584	28,134	27,393
New Zealand	2,236	—	150	—
Total Exports	1,286,866	1,158,561	2,018,268	1,883,355

*Including both sulphite and sulphate Dissolving and Special Alpha.

Source: Dominion Bureau of Statistics.

Table 23. Canadian Pulp in U.S. Market

The following figures cover all grades of pulp including mechanical and screenings.

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
1930	4,630,308	1,830,217	735,864	48,426	1,781,791
1935	4,925,669	1,933,249	541,078	171,853	1,761,396
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	1,071,864	1,071,814	218,401	853,463
1945	10,167,200	1,754,065	1,079,014	135,362	1,618,703
1946	10,606,527	1,805,488	1,244,215	39,361	1,766,127
1947	11,945,864	2,322,460	1,520,913	130,096	2,192,364
1948	12,872,292	2,176,111	1,593,584	93,727	2,082,384
1949	12,207,279	1,763,102	1,313,884	122,133	1,640,969
1950	14,848,951	2,385,181	1,717,035	95,673	2,289,508
1951	16,524,408	2,360,706	1,876,505	201,908	2,158,798
1952	16,472,979	1,941,259	1,581,214	211,924	1,729,335
1953	17,537,297	2,157,574	1,613,665	161,687	1,995,887
1954	18,333,153	2,051,798	1,679,448	443,870	1,607,928
1955	20,739,696	2,213,353	1,864,721	634,276	1,579,077
1956	22,130,949	2,334,253	1,956,592	534,494	1,799,759
1957	21,800,209	2,106,681	1,840,048	628,721	1,477,960
1958	21,795,652	2,101,787	1,819,301	515,859	1,585,928
1959	24,383,391	2,431,433	1,975,391	652,437	1,778,996
1960	25,315,589	2,381,487	2,031,941	1,141,534	1,239,953
1961	26,522,759	2,466,770	2,199,608	1,177,775	1,288,995
1962	27,908,330	2,788,281	2,435,205	1,186,213	1,602,068
1963	29,439,097	2,774,778	2,531,881	1,421,936	1,352,842
1964 p	31,911,056	2,942,203	2,701,656	1,523,594	1,418,609

p: Preliminary.

Source: United States Bureau of the Census.

Table 24. Average Value Per Ton of U.S. Pulp Imports from Canada

	Dissolving & Special Chemical Grades*	Bleached Sulphite Paper Grades	Unbleached Sulphite	Bleached Sulphate Paper Grades†	Unbleached & Semi-bl. Sulphate	Mechanical
1937	\$ 71.82	\$ 57.21	\$ 41.47	\$ 66.83	\$ 41.10	\$19.23
1938	86.65	53.16	37.97	67.28	47.24	22.50
1939	74.82	48.42	36.40	58.87	48.84	24.26
1940	78.45	61.88	48.84	74.81	58.18	28.05
1941	82.04	67.37	53.86	80.64	57.84	28.25
1942	81.22	68.21	56.09	84.55	61.08	34.57
1943	84.47	69.69	57.89	85.72	62.94	32.28
1944	92.68	78.38	65.99	85.85	66.77	38.31
1945	93.89	79.49	67.51	85.77	69.25	40.10
1946	109.74	87.19	76.80	93.48	77.98	45.30
1947	136.49	123.41	103.06	120.65	104.58	59.76
1948	152.39	134.01	112.90	146.02	122.82	63.63
1949	149.55	116.03	98.28	123.68	99.47	57.69
1950	149.59	115.54	93.01	122.44	92.31	55.74
1951	176.89	152.79	129.97	167.50	148.42	81.06
1952	182.13	148.44	135.01	160.05	132.24	76.80
1953	181.17	134.55	111.17	135.82	106.36	73.36
1954	176.42	133.86	108.00	133.39	109.53	74.20
1955	177.46	136.13	114.23	138.74	113.13	74.47
1956	178.28	142.17	118.27	142.71	115.73	75.61
1957	187.70	147.66	122.06	144.65	109.02	74.67
1958	180.07	150.84	124.74	144.26	103.20	74.60
1959	186.22	147.72	126.51	145.20	102.76	74.54
1960	172.34	141.65	115.77	140.66	109.42	74.77
1961	156.16	136.71	110.18	132.48	117.70	73.58
1962	159.68	126.57	107.27	128.10	111.93	69.66
1963	163.11	122.54	105.38	128.49	116.75	66.87

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

† Includes Dissolving and Special Chemical Grades of Sulphate prior to 1955.

Source: United States Pulp Producers Association.

Table 25.

Sulphite Pulp — Paper Grades

BLEACHED (a)	Production		Exports		Imports		Apparent Supply (b)
	Tons	Value	Tons	Value	Tons	Value	Tons
1956	672,684	\$ 80,872,390	443,086	\$ 59,902,922	9,046	\$ 1,272,893	238,644
1957	584,396	75,933,063	397,738	53,600,806	10,903	1,452,728	197,561
1958	535,972	72,064,686	361,205	49,433,556	9,015	1,215,588	183,782
1959	506,817	71,502,403	333,015	45,831,745	9,783	1,277,613	183,585
1960	572,414	71,772,351	434,118	57,608,415	12,381	1,553,748	150,677
1961	683,642	83,989,757	444,032	55,509,779	8,332	1,062,350	247,942
1962	717,298	86,093,894	500,792	61,701,635	7,020	929,783	223,526
1963	847,189	99,019,450	567,708	67,903,716	6,466	798,493	285,947
1964	934,628e	n.a.	627,201	79,830,752	9,150	1,240,437	316,577e
UNBLEACHED (a)							
1956	1,888,786	155,260,023	375,212	44,323,756	38,697	4,541,149	1,552,271
1957	1,812,258	152,028,030	293,546	35,685,700	31,700	3,730,136	1,550,412
1958	1,607,127	133,171,024	218,205	27,136,688	22,057	2,656,700	1,410,979
1959	1,622,772	131,691,921	179,716	22,028,977	23,112	2,776,144	1,466,168
1960	1,719,436	135,776,258	169,787	19,743,815	26,469	3,205,011	1,576,118
1961	1,730,970	134,440,821	190,366	21,152,941	27,255	3,254,792	1,567,859
1962	1,688,991	131,976,790	203,891	22,455,573	28,562	3,515,660	1,513,662
1963	1,718,831	164,348,339	218,784	22,956,337	29,303	3,512,232	1,529,350
1964	1,922,538e	n.a.	257,968	26,958,934	32,090	3,826,656	1,696,660e
TOTAL							
1956	2,561,470	236,132,413	818,298	104,226,678	47,743	5,814,042	1,790,915
1957	2,396,654	227,961,093	691,284	89,286,506	42,603	5,182,864	1,747,973
1958	2,143,099	205,235,710	579,410	76,570,244	31,072	3,872,288	1,594,761
1959	2,129,589	200,194,324	512,731	67,860,722	32,895	4,053,757	1,649,753
1960	2,291,850	207,548,609	603,905	77,352,230	38,850	4,758,759	1,726,795
1961	2,414,612	218,430,578	634,398	76,662,720	35,587	4,317,142	1,815,801
1962	2,406,289	218,070,684	704,683	84,157,208	35,582	4,445,443	1,737,188
1963	2,566,020	263,367,789	786,492	90,860,053	35,769	4,310,725	1,815,297
1964	2,857,166e	n.a.	885,169	106,789,686	41,240	5,067,093	2,013,237e

a: Comparable figures for 1920-1955 are given in Table 32.

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

c: Canadian Pulp and Paper Association estimate.

n.a.: not available.

Source: Dominion Bureau of Statistics.

Table 26.

Sulphate Pulp — Paper Grades

BLEACHED (a)	Production		Exports		Imports		Apparent Supply (b)
	Tons	Value	Tons	Value	Tons	Value	Tons
1956	716,080	\$ 73,321,309	684,435g*	\$ 95,086,026g*	n.a.	n.a.	n.a.
1957	799,311	103,752,169	749,147g*	103,274,308g*	n.a.	n.a.	n.a.
1958	908,804	125,520,633	900,481g*	124,423,456g*	n.a.	n.a.	n.a.
1959	1,060,963	143,424,931	909,262g*	126,510,808g*	n.a.	n.a.	n.a.
1960	1,170,901	151,112,421	980,131*	134,792,166*	n.a.	n.a.	n.a.
1961	1,293,131	160,703,467	1,060,277	139,550,593	n.a.	n.a.	n.a.
1962	1,413,425	177,015,668	1,147,190	148,999,982	n.a.	n.a.	n.a.
1963	1,624,482	214,187,951	1,374,932	176,289,371	n.a.	n.a.	n.a.
1964	1,808,772e	n.a.	1,505,417	204,225,355	9,948	1,488,805	313,303e
SEMI-BLEACHED (a)							
1956	81,700	8,849,736	n.a.	n.a.	n.a.	n.a.	n.a.
1957	115,295	11,669,185	n.a.	n.a.	n.a.	n.a.	n.a.
1958	173,068	15,983,546	n.a.	n.a.	n.a.	n.a.	n.a.
1959	242,389	22,155,700	149,883	17,034,963	n.a.	n.a.	n.a.
1960	283,818	24,625,367	139,872	16,012,525	n.a.	n.a.	n.a.
1961	322,746	27,688,337	160,958	17,438,577	n.a.	n.a.	n.a.
1962	420,672	38,971,323	183,764	19,735,877	n.a.	n.a.	n.a.
1963	396,256	43,168,128	152,403	17,175,061	n.a.	n.a.	n.a.
1964	511,090e	n.a.	191,710	22,646,824	—	—	319,380e
UNBLEACHED (a)							
1956	798,878	64,540,584	231,962	24,608,828	n.a.	n.a.	n.a.
1957	791,200	59,507,458	266,696	26,757,422	n.a.	n.a.	n.a.
1958	814,134	59,944,119	248,384	24,294,650	n.a.	n.a.	n.a.
1959	930,687	64,634,639	317,264	29,011,107	n.a.	n.a.	n.a.
1960	987,065	68,833,303	346,236	31,839,441	n.a.	n.a.	n.a.
1961	1,081,139	72,163,797	413,369	38,833,089	n.a.	n.a.	n.a.
1962	1,092,159	69,016,425	350,112	33,285,712	n.a.	n.a.	n.a.
1963	1,115,041	99,863,072	356,020	34,201,387	n.a.	n.a.	n.a.
1964	1,104,663e	n.a.	321,141	32,289,329	769	67,142	784,291e
TOTAL							
1956	1,596,658	146,711,629	916,397g*	119,694,854g*	13,043*	\$1,699,716*	693,304
1957	1,705,806	174,928,812	1,015,843g*	130,031,730g*	18,261*	2,349,370*	708,224
1958	1,896,006	201,448,298	1,148,865g*	148,723,106g*	18,923*	2,736,959*	766,064
1959	2,234,039	230,215,270	1,376,409*	172,556,878*	25,330*	3,712,102*	882,960
1960	2,441,784	244,571,091	1,466,239*	182,644,132*	17,060*	2,566,478*	992,605
1961	2,697,016	260,555,601	1,634,604	195,822,259	13,267*	1,897,186*	1,075,679
1962	2,926,256	285,003,416	1,681,066	202,021,571	10,999	1,389,827	1,256,189
1963	3,135,779	356,219,151	1,883,355	227,665,819	13,187	1,798,998	1,265,611
1964	3,424,525e	n.a.	2,018,268	259,161,508	10,717	1,555,947	1,416,974e

*: Includes sulphate dissolving pulp.

a: Comparable figures for 1920-1955 are given in Table 33.

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

c: Canadian Pulp and Paper Association estimate.

g: Includes semi-bleached.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 27. Dissolving and Special Alpha Pulps (Sulphite and Sulphate)

	(See Note)							
	Production		Exports		Imports		Apparent Supply (b)	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1956	402,635	\$69,242,400	303,423*	\$53,939,400*	3,118*	\$603,462*	102,330	
1957	341,927	48,748,953	275,385*	49,216,827*	4,020*	812,875*	70,562	
1958	330,672	54,816,622	218,406*	39,023,953*	3,749*	734,487*	116,015	
1959	390,836	63,409,133	272,550*	48,429,401*	7,083*	1,201,354*	125,369	
1960	392,392	61,036,321	242,001*	42,708,285*	7,889*	1,325,660*	158,280	
1961	373,085	59,812,352	307,232	51,955,803	12,825*	2,182,058*	78,678	
1962	477,803	76,186,475	355,321	61,343,501	17,647*	3,126,533*	140,129	
1963	429,104	71,162,700	372,069	64,484,818	25,252*	4,154,504*	82,287	
1964	468,897e	n.a.	401,697	71,122,996	21,575	3,784,646	88,775e	

Note: Comparable figures not published prior to 1956. For statistics of sulphite dissolving pulp 1944-1955, see Table 32.

*: Sulphite only.

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

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 28. Mechanical Pulp

	(See Note)							
	Production		Exports		Imports		Apparent Supply (b)	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
ALL GRADES								
1920	1,090,114	\$ 49,890,337	304,344	\$17,574,806	3,586e	\$323,708e	789,356	
1925	1,621,917	39,130,117	360,204	10,573,273	1,353	44,840	1,263,066	
1930	2,283,130	48,317,494	208,758	5,967,172	2,604	62,751	2,076,976	
1935	2,504,595	32,034,716	124,055	2,631,945	117	6,049	2,380,657	
1936	2,910,338	38,251,389	133,518	2,841,051	43	2,652	2,776,863	
1937	3,308,517	46,144,208	166,802	4,145,552	415	30,135	3,142,130	
1938	2,461,997	39,228,178	124,205	2,914,247	240	16,791	2,338,032	
1939	2,738,011	43,062,396	168,652	4,090,177	21	1,215	2,569,380	
1940	3,305,484	55,504,763	204,090	6,265,069	142	4,852	3,101,536	
1941	3,494,922	61,327,268	271,162	8,835,808	3,575	123,331	3,227,335	
1942	3,260,097	64,801,837	278,365	10,507,449	—	—	2,981,732	
1943	2,998,913	63,420,919	272,900	10,068,592	—	—	2,726,013	
1944	3,076,296	71,668,673	236,545	10,134,383	—	—	2,839,751	
1945	3,341,920	86,375,001	273,906	12,101,310	753	54,253	3,068,767	
1946	3,997,848	111,514,231	268,290	12,571,257	55	7,146	3,729,613	
1947	4,275,269	147,423,552	319,160	19,098,908	1,242	79,226	3,957,351	
1948	4,413,513	168,343,496	296,520	19,257,283	2,269	187,066	4,119,262	
1949	4,718,806	166,591,741	206,680	11,891,539	362	28,745	4,512,488	
1950	4,910,803	173,035,433	247,556	14,037,566	1,185	87,539	4,664,432	
1951	5,172,465	213,953,064	322,706	26,741,965	1,548	96,957	4,851,307	
1952	5,175,319	217,352,245	254,716	20,413,132	15,396	794,090	4,935,999	
1953	5,122,597	209,899,639	228,467	15,828,174	2,546	172,823	4,896,676	
1954	5,337,610	214,102,066	232,230	16,501,901	3,991	228,972	5,109,371	
1955	5,466,925	218,557,773	261,995	18,188,487	135	16,162	5,205,065	
1956	5,723,002	231,236,271	274,471	19,593,680	—	—	5,448,531	
1957	5,574,233	227,668,164	247,616	17,566,604	—	—	5,326,617	
1958	5,375,499	222,295,717	232,782	16,195,194	25	1,928	5,142,742	
1959	5,655,701	229,655,697	240,474	16,661,287	—	—	5,415,227	
1960	5,880,529	237,344,741	235,445	16,348,381	105	6,510	5,645,189	
1961	5,878,322	237,598,007	236,022	15,981,906	69	7,929	5,618,138	
1962	5,891,511	243,806,740	260,253	17,698,374	—	—	5,631,258	
1963	5,849,543	402,477,013	247,956	16,833,293	—	—	5,601,587	
1964	6,430,754e	n.a.	285,534	18,528,213	—	—	6,145,220e	
BLEACHED								
1952	37,835	2,916,704	33,473	2,664,840	n.a.	n.a.	n.a.	
1953	56,930	3,809,367	49,237	3,532,953	n.a.	n.a.	n.a.	
1954	61,823	4,415,121	52,211	3,830,571	n.a.	n.a.	n.a.	
1955	50,889	3,725,044	41,882	3,065,866	n.a.	n.a.	n.a.	
1956	55,287	3,518,406	44,395	3,252,441	—	—	10,892	
1957	49,641	3,259,314	35,095	2,508,198	—	—	14,546	
1958	94,307	4,116,643	15,462	1,107,189	n.a.	n.a.	n.a.	
1959	274,361	8,669,250	12,964	1,004,384	—	—	261,397	
1960	327,056	10,222,163	12,858	990,707	n.a.	n.a.	n.a.	
1961	353,506	11,173,623	18,077	1,406,272	n.a.	n.a.	n.a.	
1962	380,092	12,215,603	23,249	1,812,419	—	—	356,843	
1963	543,360	45,158,650	18,483	1,435,542	—	—	524,877	
1964	n.a.	n.a.	13,175	1,041,027	—	—	n.a.	
UNBLEACHED								
1952	5,137,484	214,435,541	221,243	17,748,292	n.a.	n.a.	n.a.	
1953	5,065,667	206,090,272	179,230	12,295,221	n.a.	n.a.	n.a.	
1954	5,275,787	209,686,945	180,019	12,671,330	n.a.	n.a.	n.a.	
1955	5,416,036	214,832,729	220,113	15,122,621	n.a.	n.a.	n.a.	
1956	5,667,715	227,717,865	230,346	16,341,239	—	—	5,437,369	
1957	5,524,592	224,408,850	212,521	15,058,406	—	—	5,312,341	
1958	5,281,192	218,179,074	217,320	15,088,005	n.a.	n.a.	n.a.	
1959	5,381,340	220,986,447	227,510	15,656,903	—	—	5,153,830	
1960	5,553,473	227,122,578	222,587	15,357,674	n.a.	n.a.	n.a.	
1961	5,524,816	226,424,384	217,945	14,575,634	n.a.	n.a.	n.a.	
1962	5,511,419	231,591,137	237,004	15,885,955	—	—	5,281,946	
1963	5,306,183	357,318,363	229,473	15,397,751	—	—	5,076,710	
1964	n.a.	n.a.	272,359	12,255,515	—	—	n.a.	

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

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 29.

Defibrated and Exploded Pulps

	Production		Exports		Imports		Apparent Supply (b)
	Tons	Value	Tons	Value	Tons	Value	Tons
1946	48,009	\$1,019,492	—	—	—	—	48,009
1947	52,613	1,244,072	—	—	—	—	52,613
1948	65,636	2,544,930	—	—	—	—	65,636
1949	75,403	2,289,933	—	—	—	—	75,403
1950	88,962	2,548,544	—	—	—	—	88,962
1951	113,166	3,500,575	—	—	—	—	113,166
1952	109,727	3,465,438	—	—	—	—	109,727
1953	125,443	3,525,748	—	—	—	—	125,443
1954	113,266	3,228,272	—	—	—	—	113,266
1955	139,136	3,937,264	—	—	—	—	139,136
1956	170,954	4,901,679	—	—	—	—	170,954
1957	152,679	4,310,556	—	—	—	—	152,679
1958	167,720	4,346,147	—	—	—	—	167,720
1959	173,619	4,802,440	—	—	—	—	173,619
1960	157,706	4,093,921	—	—	—	—	157,706
1961	135,665	3,579,169	—	—	—	—	135,665
1962	146,656	6,705,133	—	—	—	—	146,656
1963	159,576	12,766,080	—	—	—	—	159,576
1964	175,295e	n.a.	—	—	—	—	175,295e

Note: Prior to 1946 defibrated and exploded fibres were not considered as pulps and were shown only as paper-making materials.

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

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 30.

Other Wood-Pulps*

Year	Production		Exports		Imports		Apparent Supply (b)
	Tons	Value	Tons	Value	Tons	Value	Tons
1920	27,228	\$ 2,144,848	11,165e	\$ 964,164e	757	\$ 94,865	16,820
1925	1,189	83,015	—	—	1,266	84,674	2,455
1930	12,804	768,240	5,187	369,585	22	1,490	7,639
1935	20,887	954,075	10,709	465,616	51	2,524	10,229
1936	20,238	961,305	13,373	591,062	118	4,946	6,983
1937	21,916	1,126,432	11,342	585,226	176	9,711	10,750
1938	19,183	918,904	10,039	490,665	69	3,041	9,213
1939	21,562	1,013,398	9,059	409,531	182	9,486	12,685
1940	27,698	1,646,513	12,334	716,514	25	1,861	15,389
1941	31,033	1,983,144	16,682	1,096,619	—	—	14,351
1942	33,731	2,155,963	18,757	1,242,998	—	—	14,974
1943	34,034	2,303,608	19,892	1,444,792	—	—	14,142
1944	31,814	2,255,364	17,269	1,356,843	—	—	14,545
1945	48,396	2,778,018	21,771	1,823,957	—	—	26,625
1946	42,150	2,852,383	19,667	1,763,821	—	—	22,483
1947	57,234	4,364,271	21,867	2,527,340	—	—	35,367
1948	89,848	6,515,005	25,316	3,288,513	—	—	64,532
1949	86,224	6,264,152	27,471	3,369,959	68	8,151	58,821
1950	103,039	7,286,530	33,059	4,286,212	27	3,772	70,007
1951	137,268	10,322,641	32,958	5,277,337	2	670	104,312
1952	105,826	8,782,266	28,984	4,293,855	—	—	76,842
1953	126,484	10,121,236	34,914	4,887,822	—	—	91,570
1954	125,529	10,346,542	37,923	5,307,245	—	—	87,606
1955	155,026	12,063,208	41,288	5,873,683	—	—	113,738
1956	183,582	15,573,669	44,950	6,395,205	—	—	138,632
1957	171,871	13,934,565	42,802	6,044,097	—	—	129,069
1958	156,753	13,423,392	32,398	4,691,029	—	—	124,355
1959	173,156	14,581,927	38,285	5,424,255	—	—	134,871
1960	223,971	15,972,597	43,206	5,762,785	—	—	180,765
1961	207,866	14,394,260	45,663	5,918,316	—	—	174,008
1962	217,457	13,949,855	33,858	4,398,852	—	—	176,466
1963	246,952	22,312,534	40,991	5,213,746	—	—	205,961
1964	280,922e	n.a.	38,697	5,085,638	1,681	32,429	243,906e

*: Includes soda, semi-chemical and unspecified grades of wood-pulp.

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

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 31.

Screenings

SCREENINGS — CHEMICAL AND MECHANICAL							
	Production		Exports (a)		Imports		Apparent Supply (b)
	Tons	Value	Tons	Value	Tons	Value	Tons
1923	43,966	\$ 797,506	18,554e	\$447,549e	—	—	25,412
1925	65,364	1,106,633	24,526e	565,135e	—	—	40,838
1930	71,158	882,027	23,662	415,606	—	—	47,496
SCREENINGS — CHEMICAL							
1935	28,230	226,254	8,311	109,693	—	—	19,919
1936	38,504	305,942	10,786	133,393	—	—	27,718
1937	48,871	527,450	10,106	167,074	—	—	38,765
1938	22,739	198,939	2,626	43,471	—	—	20,113
1939	27,760	231,642	3,360	38,734	—	—	24,400
1940	42,741	434,257	3,016	54,636	—	—	39,725
1941	48,270	560,969	11,602	228,906	—	—	36,668
1942	51,905	727,736	11,809	258,935	—	—	40,096
1943	51,053	787,239	17,834	408,012	—	—	33,219
1944	48,826	803,729	11,120	317,221	—	—	37,706
1945	53,121	797,527	10,396	310,000	—	—	42,725
1946	66,277	1,268,027	11,326	390,881	—	—	54,951
1947	82,228	2,125,787	12,893	651,218	—	—	69,335
1948	83,894	2,288,892	11,537	489,515	—	—	72,357
1949	71,179	1,579,401	6,169	143,563	—	—	65,010
1950	73,276	1,559,097	7,758	211,034	—	—	65,518
1951	86,945	2,714,728	10,020	492,496	—	—	76,925
1952	67,864	2,173,153	5,077	205,748	—	—	62,787
1953	64,384	1,949,166	2,929	110,874	—	—	61,455
1954	68,131	2,073,775	4,154	144,370	—	—	63,977
1955	70,269	2,105,955	5,972	222,949	—	—	64,297
1956	65,343	2,434,473	6,415	238,947	—	—	58,928
1957	54,687	1,627,658	5,481	206,201	—	—	49,206
1958	45,166	1,327,397	6,188	225,484	—	—	38,978
1959	54,485	1,677,078	5,035	184,243	—	—	49,450
1960	51,411	1,590,461	7,181	252,893	—	—	44,230
1961	50,118	1,420,654	7,454	267,816	—	—	42,664
1962	45,715	1,213,476	6,672	240,965	—	—	40,659
1963	51,749	1,319,038	5,056	179,874	—	—	46,693
1964	51,293e	n.a.	3,153	109,435	—	—	48,140e
SCREENINGS — MECHANICAL							
1935	59,116	289,104	10,629	71,947	—	—	48,487
1936	73,944	423,103	12,680	102,207	—	—	61,264
1937	76,227	519,551	13,544	145,534	—	—	62,683
1938	58,741	479,301	5,609	55,692	—	—	53,132
1939	58,082	467,971	6,730	68,851	—	—	51,352
1940	62,725	512,784	4,218	62,242	—	—	58,507
1941	55,363	422,520	7,177	88,291	—	—	48,186
1942	48,021	407,032	6,985	83,119	—	—	41,036
1943	34,838	294,784	6,053	49,302	—	—	28,785
1944	36,846	428,558	3,974	40,874	—	—	32,872
1945	38,953	348,424	4,565	41,825	—	—	34,388
1946	68,876	863,096	7,794	162,591	—	—	61,082
1947	69,360	1,237,425	9,273	98,138	—	—	60,087
1948	69,101	1,092,077	8,492	94,333	—	—	60,609
1949	54,143	1,029,384	8,130	80,287	—	—	46,013
1950	32,573	611,620	6,436	78,381	—	—	26,137
1951	43,266	1,057,328	5,796	97,774	—	—	37,470
1952	39,140	1,095,428	5,675	124,180	—	—	33,465
1953	33,984	749,568	5,675	133,982	—	—	28,309
1954	35,062	768,499	6,498	155,568	—	—	28,564
1955	31,426	734,637	5,910	143,278	—	—	25,516
1956	30,100	668,773	9,789	447,733	—	—	20,311
1957	27,438	624,492	4,245	54,137	—	—	23,193
1958	22,539	472,311	1,265	19,639	—	—	21,274
1959	20,775	404,563	4,543	136,012	—	—	16,232
1960	21,846	468,358	3,481	52,866	—	—	18,365
1961	22,481	500,147	3,472	51,893	—	—	19,009
1962	20,820	433,811	2,605	41,952	—	—	18,215
1963	35,384	444,423	3,573	54,825	—	—	31,811
1964	35,840e	n.a.	3,763	56,445	—	—	32,077e

a: For years prior to 1946, breakdown of total screenings exports into chemical and mechanical screenings estimated on basis of known quantity and value "made for export".

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

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 32.

Sulphite Pulp (1920-1955)

	UNBLEACHED	Production		Exports		Imports		Apparent Supply (b)
		Tons	Value	Tons	Value	Tons	Value	Tons
1920		515,649	\$ 48,778,369	281,855	\$30,778,486	13,162	\$ 935,991	246,956
1925		615,320	29,670,655	265,553	14,150,271	20,484	1,120,630	370,251
1930		783,410	32,494,078	187,424	9,201,250	12,937	614,364	608,923
1935		644,820	17,546,789	98,673	3,186,894	16,104	518,325	562,251
1936		739,213	19,900,576	113,088	3,634,971	19,008	608,314	645,133
1937		914,191	28,355,232	176,267	7,907,788	20,443	654,179	758,367
1938		575,263	19,037,310	98,835	4,048,165	15,970	510,446	492,398
1939		624,552	19,998,275	109,160	3,954,980	19,334	653,697	534,726
1940		936,558	36,941,108	281,324	14,857,150	18,009	682,831	673,243
1941		1,073,704	46,797,067	438,140	25,942,972	16,047	854,543	651,611
1942		1,156,137	55,524,053	550,204	33,898,728	19,589	1,107,589	625,522
1943		1,125,033	58,076,395	590,541	36,997,343	18,616	1,079,880	553,108
1944		1,023,930	59,891,667	525,777	37,235,232	10,356	687,824	508,509
1945		1,035,755	61,923,471	480,836	34,916,473	10,758	741,248	565,677
1946		1,213,220	76,000,948	446,209	35,120,122	10,295	771,697	777,306
1947		1,322,783	102,483,191	484,724	48,888,906	22,121	2,222,007	860,180
1948		1,406,358	121,374,466	514,917	58,521,374	25,295	2,686,885	916,736
1949		1,354,368	103,606,876	346,361	35,276,757	23,979	2,408,712	1,031,986
1950		1,450,004	111,208,080	411,482	41,842,295	25,941	2,339,885	1,064,463
1951		1,697,672	172,544,639	555,045	90,017,185	25,758	3,023,893	1,168,385
1952		1,596,333	150,101,618	432,126	62,318,100	27,678	2,881,802	1,191,885
1953		1,552,056	134,647,522	349,619	39,133,755	26,573	2,946,871	1,229,010
1954		1,653,324	138,855,413	350,839	38,045,958	28,630	3,086,248	1,331,115
1955		1,790,737	147,734,909	371,705	42,532,861	33,431	3,638,552	1,452,463
BLEACHED — ALL GRADES								
1920		138,624	\$ 21,301,465	100,640	\$ 15,225,226	50	\$ 6,082	38,034
1925		227,465	16,981,584	185,888	14,049,500	320	24,398	41,897
1930		293,394	19,619,367	249,098	17,954,714	1,291	99,511	45,587
1935		374,157	19,551,605	313,144	16,249,656	106	7,460	61,119
1936		429,714	22,259,923	351,651	18,376,727	31	1,587	78,094
1937		459,041	27,135,378	369,874	22,099,127	20	1,774	89,187
1938		304,834	18,818,095	236,438	15,742,741	61	5,091	68,457
1939		404,268	21,284,125	299,686	16,697,177	895	52,410	105,477
1940		543,987	36,576,496	427,482	29,812,822	1,661	115,523	118,166
1941		590,812	43,408,549	481,597	37,137,254	1,031	92,079	110,246
1942		597,316	43,809,756	463,301	36,382,124	1,861	190,932	135,876
1943		587,538	44,994,159	465,946	37,528,067	3,046	372,253	124,638
1944		585,699	48,767,224	434,520	38,614,714	3,391	412,588	154,570
1945		603,929	50,919,572	462,038	42,491,042	2,999	370,577	144,890
1946		616,797	58,859,624	460,503	47,013,382	4,121	512,113	160,415
1947		704,749	85,671,202	534,084	69,292,211	4,963	766,853	175,628
1948		731,653	99,052,519	551,617	78,497,251	5,290	904,586	185,326
1949		637,091	82,185,350	483,615	65,100,878	8,824	1,250,922	162,300
1950		760,769	101,822,594	557,858	77,855,345	7,245	990,715	210,156
1951		847,160	145,883,749	607,315	112,339,792	5,061	861,180	244,906
1952		781,762	128,760,545	569,081	101,002,682	6,985	1,200,846	219,666
1953		846,487	130,808,408	622,889	99,872,959	6,792	1,072,389	230,390
1954		953,967	137,171,927	704,013	107,537,038	7,477	1,084,885	257,431
1955		1,026,101	147,132,612	787,125	117,319,377	13,138	1,763,378	252,114
BLEACHED — DISSOLVING PULP								
1944		235,417	21,198,634	210,565e	19,504,292e	2,746e	332,918e	27,598
1945		233,826	22,025,991	214,816e	21,147,409e	2,430e	304,822e	21,440
1946		271,563	29,401,676	244,879	27,211,028	2,769e	363,569e	29,453
1947		306,927	41,705,429	292,125	38,976,383	3,043e	501,773e	17,845
1948		340,946	50,689,685	309,270	46,090,922	3,243	591,896	34,919
1949		262,972	39,455,746	243,095	37,146,886	2,861	537,523	22,738
1950		335,736	52,891,624	290,356	45,478,266	1,404	274,136	46,784
1951		408,969	81,904,028	363,145	71,831,848	1,587	369,647	47,411
1952		383,645	70,845,884	339,407	66,364,335	2,743	628,543	46,981
1953		430,551	77,511,280	382,960	69,171,902	1,588	353,014	49,179
1954		426,638	73,214,507	368,527	65,176,985	1,118	238,713	59,229
1955		402,283	68,934,790	330,132	58,417,937	1,817	312,987	73,968
BLEACHED — PAPER GRADES								
1944		350,282	27,568,590	223,955e	19,110,422e	645e	79,670e	126,972
1945		370,103	28,893,581	247,222e	21,343,633e	569e	65,755e	123,450
1946		345,234	29,457,948	215,624	19,802,354	1,352e	148,544e	130,962
1947		397,822	43,965,773	241,959	30,315,828	1,920e	265,080e	157,783
1948		390,707	48,362,834	242,347	32,406,329	2,047	312,690	150,407
1949		374,119	42,729,604	240,520	27,953,992	5,963	713,399	139,562
1950		425,033	48,930,970	267,502	32,377,079	5,841	716,579	163,372
1951		438,191	63,979,721	244,170	40,507,944	3,474	491,533	197,495
1952		398,117	57,914,661	229,674	34,638,347	4,242	572,303	172,685
1953		415,936	53,297,128	239,929	30,701,057	5,204	719,375	181,211
1954		527,329	63,957,420	335,486	42,360,053	6,359	846,172	198,202
1955		623,818	78,197,822	456,993	58,901,440	11,321	1,450,391	178,146

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

Source: Dominion Bureau of Statistics.

Table 33.

Sulphate Pulp (1920-1955)

	Production		Exports		Imports		Apparent Supply (b)
	Tons	Value	Tons	Value	Tons	Value	Tons
1920	188,487	\$ 19,437,843	133,146	\$ 12,805,460	3,587e	\$ 579,815e	58,928
1925	241,252	13,244,379	149,722	9,158,861	—	—	91,530
1930	175,449	10,274,666	86,091	5,151,652	1,672	48,746	91,030
1935	236,536	9,119,496	96,954	4,909,979	—	—	139,582
1936	273,494	10,234,715	119,400	5,567,284	1	100	154,095
1937	312,741	12,920,977	122,781	6,765,430	c	20	189,960
1938	225,032	9,216,421	76,286	4,435,757	639	26,105	149,385
1939	292,066	11,074,010	108,869	5,741,152	1,112	46,333	184,309
1940	371,569	17,389,346	136,052	9,161,716	159	9,320	235,676
1941	426,743	20,940,034	185,365	12,567,886	—	—	241,378
1942	459,254	24,718,685	181,325	12,893,520	—	—	277,929
1943	441,421	24,636,048	183,291	13,516,667	—	—	258,130
1944	467,726	27,226,197	178,876	13,863,757	—	—	288,850
1945	478,740	28,731,109	181,015	14,370,304	—	—	297,725
1946	562,233	35,246,426	204,769	16,998,605	—	—	357,464
1947	689,435	59,303,735	316,711	37,245,891	—	—	372,724
1948	815,076	84,754,779	389,599	51,416,115	150	21,060	425,627
1949	855,784	81,591,655	470,160	54,812,327	2,199	266,556	387,823
1950	1,053,588	104,512,027	581,994	70,244,716	2,185	270,363	473,779
1951	1,216,907	177,903,281	709,467	130,166,335	4,047	563,504	511,487
1952	1,092,038	138,290,487	644,923	103,505,801	4,530	622,355	451,645
1953	1,205,628	133,164,217	705,659	88,707,314	7,473	907,719	507,442
1954	1,386,127	149,370,244	844,759	103,725,925	11,593	1,379,794	552,961
1955	1,470,927	161,136,473	892,138	113,023,434	12,932	1,571,112	591,721
BLEACHED							
1947	194,326	24,214,603	181,416g	23,448,238g	n.a.	n.a.	n.a.
1948	255,346	37,227,821	232,538g	32,720,596g	n.a.	n.a.	n.a.
1949	362,283	46,552,144	331,902g	41,610,544g	n.a.	n.a.	n.a.
1950	436,810	58,225,315	392,291g	51,379,786g	n.a.	n.a.	n.a.
1951	524,658	98,296,448	475,976g	87,366,927g	n.a.	n.a.	n.a.
1952	524,513	84,457,294	490,986g	80,407,020g	n.a.	n.a.	n.a.
1953	579,537	81,522,029	534,586g	72,812,932g	n.a.	n.a.	n.a.
1954	695,460	92,754,473	639,804g	84,721,957g	n.a.	n.a.	n.a.
1955	730,637	99,886,544	670,445g	90,940,805g	n.a.	n.a.	n.a.
SEMI-BLEACHED							
1947	21,451	2,010,424	n.a.	n.a.	n.a.	n.a.	n.a.
1948	17,060	1,861,103	n.a.	n.a.	n.a.	n.a.	n.a.
1949	10,184	899,759	n.a.	n.a.	n.a.	n.a.	n.a.
1950	12,897	1,321,272	n.a.	n.a.	n.a.	n.a.	n.a.
1951	11,054	1,150,508	n.a.	n.a.	n.a.	n.a.	n.a.
1952	15,320	1,714,681	n.a.	n.a.	n.a.	n.a.	n.a.
1953	24,666	2,919,470	n.a.	n.a.	n.a.	n.a.	n.a.
1954	46,187	4,723,736	n.a.	n.a.	n.a.	n.a.	n.a.
1955	60,410	6,286,555	n.a.	n.a.	n.a.	n.a.	n.a.
UNBLEACHED							
1947	473,658	33,078,708	135,295	13,797,653	n.a.	n.a.	n.a.
1948	542,670	45,665,855	157,061	18,695,519	n.a.	n.a.	n.a.
1949	483,317	34,139,752	138,258	13,201,783	n.a.	n.a.	n.a.
1950	603,881	44,965,440	189,703	18,864,930	n.a.	n.a.	n.a.
1951	681,195	78,456,325	233,491	42,799,408	n.a.	n.a.	n.a.
1952	552,205	52,118,512	153,937	23,098,781	n.a.	n.a.	n.a.
1953	601,425	48,722,718	171,073	15,894,382	n.a.	n.a.	n.a.
1954	644,480	51,892,035	204,955	19,003,968	n.a.	n.a.	n.a.
1955	679,880	54,963,374	221,693	22,082,629	n.a.	n.a.	n.a.

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

g: Includes semi-bleached.

Source: Dominion Bureau of Statistics.

Table 34.

Imports of Wood-Pulp

Year	All Kinds Tons	Dissolving and Special Alpha (Sulphite & Sulphate) Tons	Sulphite Paper Grades		Sulphite Paper Grades		Mechanical Tons	Other Wood-Pulp Tons
			Bleached Tons	Unbleached Tons	Bleached Tons	Unbleached Tons		
1920	21,142	(a)	50	13,162	3,587	—	3,586	757
1925	23,423		320	20,484	—	—	1,353	1,266
1930	18,526		1,291	12,937	1,672	—	2,604	22
1935	16,378		106	16,104	—	—	117	51
1940	19,996		1,661	18,009	—	159	142	25
1941	20,653		1,031	16,047	—	—	3,575	—
1942	21,450		1,861	19,589	—	—	—	—
1943	21,662		3,046	18,616	—	—	—	—
1944	13,747		3,391	10,356	—	—	—	—
1945	14,510		2,999	10,758	—	—	753	—
1946	14,471		4,121	10,295	—	—	55	—
1947	28,326		4,963	22,121	—	—	1,242	—
1948	33,004		5,290	25,295	—	150	2,269	—
1949	35,432		8,824	23,979	2,199	—	362	68
1950	36,583		7,245	25,941	2,185	—	1,185	27
1951	36,416		5,061	25,758	4,047	—	1,548	2
1952	54,589		6,985	27,678	4,530	—	15,396	—
1953	43,384		6,792	26,573	7,473	—	2,546	—
1954	51,691		7,477	28,630	11,593	—	3,991	—
1955	59,636		13,138	33,431	12,932	—	135	—
1956	63,904		12,164	38,697	13,043	—	—	—
1957	64,884		14,923	31,700	18,261	—	—	—
1958	53,769		12,764	22,057	18,923	—	25	—
1959	65,308		16,866	23,112	25,330	—	—	—
1960	63,904		20,270	26,469	17,060	—	105	—
1961	61,748		21,157	27,255	13,267	—	69	—
1962	63,328		24,667	28,562	10,099	—	—	—
1963	74,208		31,718	29,303	13,187	—	—	—
1964	75,213	21,575	9,150	32,090	9,948	769	—	1,681

a: Included with bleached sulphite prior to 1964.

Source: Dominion Bureau of Statistics.

Table 35. Consumption of Wood-Pulp in Paper, Paperboard, and Other Board Production, by Sources

Year	1920 - 1951 Sulphate								
	All Kinds Tons	Sulphite Bleached Tons	Unbleached Tons	Bleached and Semi-bleached Tons	Unbleached Tons	Mechanical Tons	Screenings Tons(*)	Defibrated & Exploded Tons(**)	Other Wood-Pulp Tons
OWN PULP FROM SAME MILL									
1920	963,762	3,630	199,507	51,041	—	702,519	—	—	7,065
1925	1,643,123	14,184	285,294	95,099	—	1,222,210	25,305	—	1,031
1930	2,736,964	20,523	560,977	71,755	—	2,045,504	37,833	—	372
1935	3,041,835	26,357	508,748	108,319	—	2,354,442	43,119	—	850
1940	3,959,472	46,627	585,314	191,573	—	3,067,887	63,113	—	4,958
1941	3,132,158	49,996	606,079	214,050	—	3,203,887	53,508	—	4,638
1942	3,846,947	64,852	540,453	227,046	—	2,957,592	51,874	—	5,130
1943	3,574,185	50,981	500,084	211,526	—	2,759,392	47,661	—	4,541
1944	3,651,322	58,306	453,584	242,900	—	2,840,653	51,331	—	4,548
1945	3,978,373	58,601	517,586	249,896	—	3,057,837	53,585	23,803	17,065
1946	4,922,055	60,573	699,812	10,571	307,788	3,712,242	69,657	48,549	12,863
1947	5,249,369	67,720	759,869	16,183	323,482	3,928,813	76,895	52,613	23,794
1948	5,534,167	64,534	811,142	21,958	352,749	4,077,780	88,225	65,636	52,143
1949	5,991,912	67,435	928,159	24,073	339,491	4,427,388	81,135	75,403	48,828
1950	6,213,302	74,043	956,733	27,272	376,186	4,566,343	63,788	88,962	59,975
1951	6,583,069	80,225	1,036,328	33,209	402,126	4,743,924	80,731	113,166	93,360
PURCHASED PULP AND OWN PULP FROM OTHER MILLS									
1920	193,135	19,805	70,726	4,631	—	96,640	—	—	1,333
1925	204,630	29,194	96,522	10,113	—	57,733	9,653	—	1,415
1930	160,178	34,010	54,034	13,063	—	23,208	26,994	—	8,869
1935	170,869	45,896	49,046	25,578	—	14,936	27,677	—	7,736
1940	217,407	54,459	64,605	36,081	—	19,338	32,717	—	10,207
1941	232,171	60,435	65,186	37,830	—	23,099	33,529	—	12,092
1942	214,511	59,406	67,231	38,682	—	12,154	27,308	—	9,730
1943	214,132	63,090	59,356	42,720	—	14,580	24,455	—	9,931
1944	208,323	61,266	53,035	45,452	—	11,182	27,598	—	9,790
1945	220,733	75,444	43,851	48,645	—	12,184	30,932	—	9,677
1946	261,500	83,305	69,680	12,077	27,712	16,498	41,929	—	10,299
1947	335,692	98,896	101,835	12,929	27,012	35,570	47,590	—	11,860
1948	319,133	93,780	104,061	14,477	25,405	31,689	37,569	—	12,152
1949	347,095	91,213	84,932	18,664	26,112	89,222	26,077	—	10,875
1950	378,704	102,659	97,327	25,782	33,486	83,365	26,089	—	9,996
1951	432,813	114,842	105,401	33,029	39,261	100,872	28,461	—	10,947
OWN PULP FROM SAME MILL									
1952	6,660,897	78,880	1,081,585	35,831	374,199	4,845,369	68,476	109,727	66,830
1953	6,744,045	74,710	1,118,222	39,363	398,622	4,844,401	59,997	125,443	83,287
1954	7,047,544	75,765	1,198,224	41,098	416,473	5,058,049	66,380	113,266	78,289
1955	7,315,431	76,234	1,303,254	47,193	428,004	5,156,788	64,997	139,136	99,825
1956	7,840,417	95,762	1,437,895	59,987	525,113	5,376,968	55,845	170,954	117,893
1957	7,674,107	95,120	1,412,201	90,413	482,757	5,284,747	50,551	152,366	105,952
1958	7,450,485	97,737	1,287,811	115,096	524,776	5,113,472	42,774	167,720	101,099
1959	7,894,261	108,980	1,342,572	143,491	586,306	5,376,166	49,237	173,619	113,890
1960	8,369,625	107,274	1,479,580	198,970	604,460	5,608,141	45,612	157,727	167,861
1961	8,389,009	112,806	1,487,205	220,589	621,520	5,614,387	44,770	124,616	163,116
1962	8,422,378	118,344	1,423,908	251,570	682,142	5,603,183	35,423	146,656	161,152
1963	8,484,040	120,997	1,427,454	291,734	704,775	5,553,778	42,928	159,576	182,798
1964	9,153,522e	128,717e	1,571,635e	307,520e	679,798e	6,034,386e	44,663e	175,295e	211,508e
OWN PULP FROM OTHER MILLS									
1952	216,496	51,874	78,942	10,355	6,104	49,083	17,007	—	3,131
1953	198,812	55,528	90,626	17,329	5,984	8,534	16,829	—	3,982
1954	204,944	58,225	93,327	16,566	7,788	8,145	17,425	—	3,468
1955	228,622	58,796	108,670	22,502	7,122	8,326	18,207	—	4,999
1956	228,028	52,826	101,746	25,539	4,770	20,087	17,147	—	5,913
1957	202,014	59,459f	86,052	24,119	4,072	12,498	10,027	—	5,787
1958	152,389	53,297f	62,119	17,333	4,392	7,617	5,023	—	2,608
1959	171,270	58,845f	77,550	15,961	5,626	5,401	5,989	—	1,998
1960	169,975	70,719f	65,027	18,888	4,787	4,570	4,036	—	1,948
1961	179,486	73,753f	58,977	25,241	6,901	2,475	9,856	—	2,283
1962	256,075	78,831	68,839	70,047	20,158	3,624	8,642	—	5,934
1963	314,078	84,879	70,673	92,627	41,289	5,634	12,360	—	6,616
1964	332,207e	90,295e	77,811e	97,639e	39,826e	6,122e	12,859e	—	7,655e
PURCHASED PULP									
1952	176,005	47,165	26,516	24,100	21,580	34,360	10,047	312	11,925
1953	204,160	48,701	32,615	29,666	23,093	49,576	10,586	23	9,900
1954	203,987	47,607	31,491	47,430	25,403	27,701	12,182	—	12,173
1955	255,824	53,923	45,410	55,165	30,653	48,388	8,376	—	13,909
1956	270,827	65,372	47,677	56,880	30,682	42,182	6,119	—	21,915
1957	266,839	59,992f	48,723	67,941	32,551	30,187	6,780	2,322	18,343
1958	278,653	59,884f	55,918	82,349	28,341	15,385	9,840	3,428	23,508
1959	301,612	54,781f	47,376	108,650	28,651	16,305	9,208	7,258	29,383
1960	293,175	55,263f	38,697	114,462	26,901	12,382	9,178	7,842	28,450
1961	305,947	64,468f	34,633	126,938	30,950	11,427	9,767	—	27,764
1962	320,016	71,913f	24,206	153,827	25,388	14,343	8,260	—	27,538
1963	322,169	72,213f	21,787	155,177	23,996	14,607	6,420	—	27,969
1964	342,439e	76,821ef	23,958e	163,573e	23,145e	15,871e	6,679e	—	32,362e

e: Canadian Pulp and Paper Association estimate.

f: Includes Dissolving and Special Alpha (Sulphite and Sulphate).

Note: Prior to 1952 transfers of own pulp from one mill to another were reported as purchases by the consuming mills and as sales by the producing mills.
Source: Dominion Bureau of Statistics.

Table 36. Consumption of Wood-Pulp in Paper, Paperboard, and Other Board Production, by Kinds

Year	All Kinds Tons	Sulphite		Sulphate		Mechanical Tons	Screenings Tons(*)	Defibrated & Exploded Tons(**)	Other Wood-Pulp Tons
		Bleached Tons	Unbleached Tons	Bleached and Semi-bleached Tons	Unbleached Tons				
1920	1,156,897	23,435	270,233		55,672	799,159	—	—	8,398
1925	1,847,753	43,378	381,816		105,212	1,279,943	34,958	—	2,446
1930	2,897,142	54,533	615,011		105,212	2,068,712	63,827	—	9,241
1935	3,212,704	72,253	557,794		133,897	2,369,378	70,796	—	8,586
1936	3,745,959	84,709	639,474		151,568	2,755,974	105,685	—	8,549
1937	4,252,954	77,092	741,051		181,232	3,136,195	106,334	—	11,050
1938	3,122,180	74,380	503,020		147,013	2,312,001	75,876	—	9,890
1939	3,460,614	85,661	530,474		183,771	2,567,348	81,352	—	12,008
1940	4,176,879	101,086	649,919		227,654	3,087,225	95,830	—	15,165
1941	4,364,329	110,431	671,265		251,880	3,226,986	87,037	—	16,730
1942	4,061,458	124,258	607,684		265,728	2,969,746	79,182	—	14,860
1943	3,788,317	114,071	559,440		254,246	2,773,972	72,116	—	14,472
1944	3,859,645	119,572	506,619		288,352	2,851,835	78,929	—	14,338
1945	4,199,106	134,045	561,437		298,541	3,070,021	84,517	23,803	26,742
1946	5,183,555	143,878	769,492	22,648	335,500	3,728,740	111,586	48,549	23,162
1947	5,585,061	166,616	861,704	29,112	350,494	3,964,383	124,485	52,613	35,654
1948	5,853,300	158,314	915,203	36,435	378,154	4,109,469	125,794	65,636	64,295
1949	6,339,007	158,648	1,013,091	42,737	365,603	4,516,610	107,212	75,403	59,703
1950	6,592,006	176,702	1,054,060	53,054	409,672	4,649,708	89,877	88,962	69,971
1951	7,015,882	195,067	1,141,729	66,238	441,387	4,844,796	109,192	113,166	104,307
1952	7,053,398	177,919	1,187,043	70,286	401,883	4,928,812	95,530	110,039	81,886
1953	7,147,017	178,939	1,241,463	86,358	427,699	4,902,511	87,412	125,466	97,169
1954	7,456,475	181,597	1,323,042	105,094	449,664	5,093,895	95,987	113,266	93,930
1955	7,799,877	188,953	1,457,334	124,860	465,779	5,213,502	91,580	139,136	118,733
1956	8,339,272	213,960	1,587,318	142,406	560,565	5,438,237	79,111	170,954	145,721
1957	8,142,960	214,571f	1,546,976	182,473	519,380	5,327,432	67,358	154,688	130,082
1958	7,881,527	210,918f	1,405,848	214,778	557,509	5,136,474	57,637	171,148	127,215
1959	8,367,143	222,606f	1,467,498	268,102	620,583	5,397,872	64,434	180,877	145,171
1960	8,832,775	233,256f	1,583,304	332,320	636,148	5,625,093	58,826	165,569	198,259
1961	8,874,442	251,027f	1,580,815	372,768	659,371	5,628,289	64,393	124,616	193,163
1962	8,998,469	269,088f	1,516,953	475,444	727,688	5,621,150	52,325	146,656	194,624
1963	9,120,287	278,089f	1,519,914	539,538	770,060	5,574,019	61,708	159,576	217,383
1964	9,828,168e	295,833ef	1,673,434e	568,732e	742,769e	6,056,379e	64,201e	175,295e	251,525e

e: Canadian Pulp and Paper Association estimate.

f: Includes Dissolving and Special Alpha (Sulphite and Sulphate).

Source: Dominion Bureau of Statistics.

Table 37. Wood-Pulp Annual Capacity

January 1st	Dissolving (Sulphite & Sulphate)	Sulphite, Paper Grades		Sulphate, Paper Grades		Mechanical (a)	Other (b)	Total
		Bleached	Paper Grades Unbleached	Bleached & Semi-bleached	Unbleached			
(In short tons, air-dry weight)								
1949	(c)	777,870	1,662,197	412,635	546,240	5,324,023	177,074	8,900,039
1950	(c)	790,190	1,669,872	437,285	586,460	5,398,099	177,381	9,059,287
1951	(c)	806,130	1,653,697	491,384	634,050	5,527,652	212,971	9,325,884
1952	(c)	929,330	1,789,770	597,211	659,171	5,715,556	207,866	9,898,904
1953	511,404	488,421	1,804,723	558,389	650,864	5,853,515	222,480	10,089,796
1954	512,200	542,030	1,711,787	694,123	675,701	5,969,205	256,247	10,361,293
1955	513,750	585,568	1,765,429	734,129	730,557	6,094,396	304,448	10,728,277
1956	486,440	653,086	1,822,921	754,335	733,214	6,198,748	305,555	10,954,299
1957	503,727	675,940	1,908,476	850,418	955,405	6,472,420	333,393	11,699,779
1958	493,422	688,970	1,978,916	1,382,142	967,385	7,065,227	365,313	12,941,375
1959	507,225	712,470	1,959,206	1,306,080	1,023,878	7,154,472	369,147	12,032,478
1960	421,910	687,774	1,974,296	1,422,455	1,033,199	7,204,437	393,664	13,137,735
1961	374,740	827,850	1,997,355	1,775,575	1,076,389	7,122,230	329,838	13,503,977
1962	431,320	807,342	2,083,000	1,837,542	1,182,286	7,267,236	310,918	13,919,644
1963	441,626	950,861	2,168,502	2,071,618	1,258,227	7,358,019	310,320	14,559,173
1964	480,077	998,655	2,187,800	2,507,409	1,255,811	7,476,920	328,086	15,234,758
1965	509,459	1,069,055	2,210,975	2,538,429	1,255,811	7,793,216	328,086	15,705,031

a: Groundwood, Defibrated and Exploded pulp and Groundwood screenings.

b: Soda and Semi-chemical pulps and Chemical screenings.

c: Included with Sulphite and Sulphate Paper Grades.

Source: Canadian Pulp and Paper Association estimates

"D"—NEWSPRINT

*Data in this section have been compiled by
Newsprint Association of Canada from the sources mentioned.*

Throughout this section Newfoundland statistics are included, unless otherwise noted, in the Canadian totals for all years.

Table 38. Newsprint Capacity, Production and Shipments

Tons	Annual Capacity	Annual Production	Oper. Ratio	Shipments To		Total Exports	Shipments in Canada	Total Shipments	Mill Stocks
				U.S.A.	Overseas				
1915		549,000		329,000	95,000				
1920	1,016,000	938,000	92.3	679,306	160,000	839,306	110,000	949,306	67,999
1925	1,823,000	1,618,805	88.8	1,315,404	148,000	1,463,404	124,000	1,587,404	104,184
1930	3,902,000	2,791,406	71.5	2,145,471	442,000	2,587,471	162,000	2,749,471	160,128
1935	4,263,120	3,082,994	72.3	2,122,099	727,338	2,849,437	200,303	3,049,740	185,489
1936	4,217,860	3,535,465	83.8	2,550,925	845,778	3,396,703	194,808	3,591,511	129,443
1937	4,210,743	3,997,942	94.9	3,044,731	766,933	3,811,664	220,200	4,031,864	95,521
1938	4,534,884	2,892,984	63.8	1,940,303	680,229	2,620,532	159,792	2,780,324	208,181
1939	4,632,936	3,174,544	68.5	2,281,460	653,151	2,934,611	190,102	3,124,713	258,012
1940	4,716,030	3,769,946	79.9	2,741,363	877,851	3,619,214	184,605	3,803,819	224,139
1941	4,702,671	3,770,665	80.2	2,987,235	616,890	3,604,125	197,508	3,801,633	193,171
1942	4,763,235	3,454,528	72.5	3,006,592	278,791	3,285,383	203,484	3,488,867	158,832
1943	4,677,951	3,219,004	68.8	2,680,790	398,640	3,079,430	193,848	3,273,278	104,558
1944	4,726,464	3,264,581	69.1	2,529,693	553,457	3,083,150	188,261	3,271,411	97,728
1945	4,672,080	3,591,901	76.9	2,665,947	685,469	3,351,416	201,492	3,552,908	136,721
1946	4,640,944	4,506,063	97.1	3,563,124	684,770	4,247,894	248,366	4,496,260	146,524
1947	4,728,724	4,820,164	101.9	3,897,300	700,839	4,598,139	275,144	4,873,283	93,405
1948	4,883,127	4,982,834	102.0	4,127,970	532,589	4,660,559	306,485	4,967,044	109,195
1949	5,113,108	5,176,327	101.2	4,380,250	448,697	4,828,947	335,385	5,164,332	121,190
1950	5,226,675	5,278,585	101.0	4,748,228	207,803	4,956,031	354,602	5,310,633	89,142
1951	5,359,816	5,516,279	102.9	4,783,549	360,067	5,143,616	359,895	5,503,511	101,910
1952	5,510,397	5,687,051	103.2	4,835,065	462,616	5,297,681	368,768	5,666,449	122,512
1953	5,722,640	5,721,296	100.0	4,861,372	472,915	5,334,287	398,277	5,732,564	111,244
1954	5,919,917	5,984,207	101.1	4,875,031	674,534	5,549,565	420,896	5,970,461	124,990
1955	6,064,489	6,190,647	102.1	5,070,211	734,902	5,805,113	430,444	6,235,557	80,080
1956	6,242,514	6,468,815	103.6	5,229,748	741,944	5,971,692	477,130	6,448,822	100,073
1957	6,756,071	6,396,501	94.7	5,054,729	852,664	5,907,393	456,728	6,364,121	132,453
1958	7,238,516	6,095,553	84.2	4,826,696	782,328	5,609,024	434,292	6,043,316	184,690
1959	7,520,681	6,394,172	85.0	5,117,766	834,938	5,952,704	472,579	6,425,283	153,579
1960	7,611,194	6,738,611	88.5	5,279,227	986,072	6,265,299	487,102	6,752,401	139,789
1961	7,734,058	6,734,759	87.1	5,226,673	988,867	6,215,540	491,931	6,707,471	167,077
1962	7,843,687	6,690,899	85.3	5,228,624	940,829	6,169,453	510,551	6,680,004	177,972
1963	8,054,615	6,630,483	82.3	5,179,634	919,928	6,099,562	522,718	6,622,280	186,175
1964	8,274,069	7,301,357	88.2	5,648,145	1,111,266	6,759,411	550,433	7,309,844	177,688

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

Source: Newsprint Association of Canada.

Table 39. Daily Capacity and Production

Tons	Number of Work Days	Capacity Per Day	Production Per Day
1935	310	13,752	9,945
1936	310	13,606	11,405
1937	309	13,627	12,938
1938	309	14,676	9,362
1939	308	15,042	10,307
1940	310	15,213	12,161
1941	309	15,219	12,203
1942	309	15,415	11,180
1943	309	15,139	10,417
1944	309	15,296	10,565
1945	309	15,120	11,624
1946	308	15,068	14,630
1947	308	15,353	15,650
1948	309	15,803	16,126
1949	308	16,601	16,806
1950	307	17,025	17,194
1951	308	17,402	17,910
1952	309	17,833	18,405
1953	308	18,580	18,576
1954	311	19,030	19,306
1955	310	19,559	19,963
1956	310	20,115	20,890
1957	311	21,701	20,614
1958	312	23,175	19,559
1959	311	24,162	20,545
1960	313	24,339	21,544
1961	315	24,559	21,408
1962	317	24,709	21,078
1963	319	25,240	20,777
1964	320	25,872	22,830

Because of variations in the number of workdays, daily capacity provides the most accurate measurement of changes in capacity.

Source: Newsprint Association of Canada.

Table 40. Newsprint Shipments Overseas

Tons	British Isles	Australia & N.Z.	Central & S. America	Europe & Med. Area	Other Africa	Far East
1946	119,631	195,067	254,949	10,497	41,241	63,225
1947	131,203	212,444	234,040	9,810	44,256	68,916
1948	123,310	78,196	207,411	9,768	49,846	63,925
1949	126,484	74,000	139,749	11,702	54,334	42,286
1950	28,056	33,030	104,923	4,245	10,522	26,865
1951	103,462	37,671	131,769	22,710	21,366	42,907
1952	135,749	76,266	163,028	11,562	40,101	35,677
1953	189,591	48,396	158,417	3,781	27,993	44,493
1954	272,781	76,710	186,327	55,986	30,235	52,280
1955	306,910	99,202	166,741	71,226	38,740	51,872
1956	355,197	73,779	192,328	34,254	45,056	41,058
1957	395,901	82,890	239,544	34,863	52,403	46,857
1958	394,355	79,730	201,706	26,557	53,917	25,844
1959	415,392	102,282	207,227	6,536	64,244	39,010
1960	479,496	162,474	234,561	15,629	72,200	21,712
1961	459,151	146,633	272,051	23,358	57,998	29,676
1962	498,106	109,566	232,718	10,040	43,120	47,279
1963	457,509	81,426	244,826	24,761	45,278	66,128
1964	481,004	130,029	260,787	21,349	63,890	154,207

Source: Newsprint Association of Canada.

Table 41. Value of Newsprint Production and Exports

Figures for 1915-1948 do not include Newfoundland.

	Production	Exports
1915	n.a.	\$ 16,438,679
1920	80,865,271	72,920,225
1925	106,268,641	98,945,337
1930	136,181,883	133,370,932
1935	88,436,465	87,924,251
1936	105,214,533	103,639,634
1937	126,424,303	126,466,412
1938	107,051,202	104,615,042
1939	120,858,583	115,687,288
1940	158,447,311	151,360,196
1941	158,925,310	154,356,543
1942	147,074,109	141,065,618
1943	152,962,868	144,707,065
1944	165,655,165	157,190,834
1945	189,023,736	179,450,771
1946	280,809,610	265,864,969
1947	355,540,669	342,293,158
1948	402,099,718	383,122,743
1949	467,976,343	440,054,067
1950	506,968,207	485,746,314
1951	564,361,193	536,372,498
1952	600,515,960	591,790,209
1953	633,408,019	619,033,394
1954	657,487,344	635,669,692
1955	688,338,369	665,876,987
1956	735,644,049	708,384,822
1957	729,009,081	715,489,761
1958	699,906,388	690,209,468
1959	730,455,460	722,271,166
1960	783,364,089	757,930,406
1961	809,602,323	761,312,790
1962	821,379,817	753,059,629
1963	811,311,477	759,989,558
1964	893,400,184e	834,646,119

e: Canadian Pulp and Paper Association estimate.

n.a.: not available.

Note: Dominion Bureau of Statistics figures differ slightly from those acquired from the mills by the Newsprint Association of Canada.

Source: Dominion Bureau of Statistics.

Table 42. Newsprint and Total Canadian Exports to United States

Year	Newsprint* Exports to U.S.	Millions of Dollars Total Exports to U.S.	Percent Newsprint of Total
1910	1.2	104.2	1.2
1914	9.8	163.4	6.0
1920	46.8	464.0	10.0
1925	89.1	420.4	21.2
1930	115.3	395.7	29.1
1935	71.0	358.6	19.8
1936	83.5	406.7	20.5
1937	105.9	470.2	22.5
1938	85.6	270.5	31.6
1939	97.8	380.4	25.7
1940	120.6	443.0	27.2
1941	130.9	599.7	21.8
1942	132.4	885.5	15.0
1943	131.4	1,149.2	11.4
1944	135.2	1,301.3	10.4
1945	148.4	1,197.0	12.4
1946	225.6	887.9	25.4
1947	293.5	1,034.2	28.4
1948	342.8	1,501.0	22.8
1949	396.4	1,510.1	26.2
1950	465.3	2,021.0	23.0
1951	500.5	2,297.7	21.8
1952	534.4	2,307.0	23.2
1953	564.5	2,418.9	23.3
1954	558.6	2,317.2	24.1
1955	578.3	2,559.3	22.6
1956	615.9	2,818.7	21.9
1957	610.3	2,867.6	21.3
1958	590.2	2,828.6	20.9
1959	614.7	3,107.8	19.8
1960	631.2	2,932.2	21.5
1961	629.8	3,107.2	20.3
1962	633.0	3,608.4	17.5
1963	636.1	3,766.4	16.9
1964	689.4	4,271.0	16.1

* Excludes mutilated newsprint.

For the period 1910 to 1925 inclusive figures relate to fiscal years.

Note: See footnote in Table 41.

Source: Dominion Bureau of Statistics.

Table 43. Value of Newsprint and Total Pulp and Paper Production

Figures for 1928-1948 do not include Newfoundland

Year	Newsprint Production	Total Production	Newsprint Percent of Total
1928	144.1	233.1	61.8
1930	136.2	216.0	63.1
1935	91.8	159.3	57.6
1936	105.2	183.6	57.3
1937	126.4	226.2	55.9
1938	107.1	183.9	58.2
1939	120.9	208.2	58.1
1940	158.4	298.0	53.2
1941	158.9	334.7	47.5
1942	147.1	336.7	43.7
1943	153.0	344.4	44.4
1944	165.7	369.8	44.8
1945	189.0	398.8	47.4
1946	280.8	527.8	53.2
1947	355.5	707.0	50.3
1948	402.1	825.9	48.7
1949	468.0	836.1	56.0
1950	507.0	954.1	53.1
1951	564.4	1,237.9	45.6
1952	600.5	1,157.9	51.9
1953	633.4	1,179.7	53.7
1954	657.5	1,241.6	53.0
1955	688.3	1,326.9	51.9
1956	735.6	1,465.1	50.2
1957	729.0	1,419.3	51.4
1958	699.9	1,406.6	49.8
1959	730.4	1,496.6	48.8
1960	783.4	1,579.6	49.6
1961	809.6	1,639.7	49.4
1962	821.4	1,718.9	47.8
1963	811.3	1,790.6	45.3

Note: See footnote in Table 41.

Source: Dominion Bureau of Statistics.

Table 44. U.S. Prices and Price Indexes

	Canadian Newsprint U.S. Dollars	Newsprint Index 1926=100	U.S. Dollars in Canada
1915	41.78	59.7	1.0040
1920	112.60	160.9	1.1201
1925	76.80	109.7	1.0004
1930	62.00	88.6	1.0016
1935	40.00	57.1	1.0051
1936	41.00	58.6	1.0006
1937	42.50	60.7	.9999
1938	50.00	71.4	1.0056
1939	50.00	71.4	1.0370
1940	50.00	71.4	1.1050
1941	50.00	71.4	1.1050
1942	50.00	71.4	1.1050
1943	54.66	78.1	1.1050
1944	58.00	82.9	1.1050
1945	60.25	86.1	1.1045
1946	72.25	101.2	1.0575
1947	88.50	126.4	1.0025
1948	97.67	139.5	1.0025
1949	100.00	142.9	1.0308
1950	101.00	144.3	1.0892
1951	111.00	158.6	1.0528
1952	121.00	172.9	.9789
1953	126.00	180.0	.9834
1954	126.00	180.0	.9732
1955	126.00	180.0	.9863
1956	130.00	185.7	.9841
1957	133.00	190.0	.9588
1958	134.00	191.0	.9706
1959	134.00	191.0	.9590
1960	134.00	191.0	.9697
1961	134.00	191.0	1.0132
1962	134.00	191.0	1.0689
1963	134.00	191.0	1.0785
1964	134.00	191.0	1.0786

Newsprint Prices: Annual Average, Delivered at New York.

Source Exchange Rates: Federal Reserve System; Bank of Canada.

Table 45. U.S. Newsprint Production

Tons	Capacity	Production	Shipments to:		Total Shipments
			U.S.A.	Overseas	
1915		1,239,000			
1920	1,548,000	1,511,968			1,502,574
1925	1,721,000	1,530,318	1,521,560	12,785	1,534,345
1930	1,687,000	1,282,372	1,262,721	5,344	1,268,065
1935	1,504,000	912,392	910,895	6,341	917,236
1936	1,471,000	921,408	911,488	5,188	916,676
1937	1,464,000	945,721	940,089	4,540	944,629
1938	1,094,000	820,055	816,295	282	816,577
1939	972,000	939,442	942,240	2,833	945,073
1940	1,081,000	1,013,437	998,378	14,556	1,012,934
1941	1,085,000	1,014,912	995,448	25,333	1,020,781
1942	1,126,000	952,616	932,931	17,670	950,601
1943	1,033,000	804,853	788,932	14,530	803,462
1944	1,033,000	719,802	708,815	14,622	723,437
1945	981,000	724,448	707,433	18,032	725,465
1946	839,000	770,890	753,631	8,381	762,012
1947	845,000	825,554	824,020	8,451	832,471
1948	850,000	867,494	857,540	9,309	866,849
1949	876,000	899,528	883,657	14,003	897,660
1950	992,000	1,014,703	1,002,125	15,151	1,017,276
1951	1,050,000	1,124,748	1,107,552	17,869	1,125,421
1952	1,165,000	1,146,864	1,075,540	67,166	1,142,706
1953	1,170,000	1,083,982	1,057,288	30,394	1,087,682
1954	1,280,000	1,211,156	1,120,590	92,388	1,212,978
1955	1,409,000	1,552,294	1,373,638	176,543	1,550,181
1956	1,625,000	1,717,243	1,582,742	132,628	1,715,370
1957	1,921,000	1,825,897	1,698,477	118,278	1,816,755
1958	2,100,000	1,757,796	1,675,508	85,126	1,760,634
1959	2,390,000	1,964,131	1,909,242	53,267	1,962,509
1960	2,399,000	2,038,422	1,953,681	77,355	2,031,036
1961	2,376,000	2,093,901	1,964,825	121,550	2,086,375
1962	2,471,000	2,153,579	2,085,881	76,143	2,162,024
1963	2,461,000	2,218,044	2,099,437	108,940	2,208,377
1964	2,469,000	2,261,200	2,169,723	103,665	2,273,388

These figures are compiled from U.S. mill reports and shipments to overseas show only exports direct from mills. They do not include tonnage delivered to U.S. buyers and subsequently resold for export, such tonnage being included in shipments to U.S.A. Exports as reported by U.S. Department of Commerce are thus higher than mill reports; in 1964, the Department showed exports of 117,500 tons versus 103,665 tons reported by the mills.

Source: Newsprint Service Bureau.

Table 47. Sources of U.S. Newsprint Supply

Tons	Canada	U.S.A.	Europe	Total
1915	329,000	1,176,000	4,000	1,509,000
1920	679,306	1,465,739	50,561	2,195,606
1925	1,315,404	1,507,580	133,021	2,956,005
1930	2,145,471	1,272,168	134,180	3,551,819
1935	2,122,099	910,895	197,085	3,230,079
1936	2,550,925	911,488	242,352	3,704,765
1937	3,044,731	940,089	293,953	4,278,773
1938	1,940,303	816,295	243,065	2,999,663
1939	2,281,460	942,240	310,216	3,533,916
1940	2,741,363	998,378	33,850	3,773,591
1941	2,987,235	995,448	2,865	3,985,548
1942	3,006,592	932,931	1,527	3,941,050
1943	2,680,790	788,932	0	3,469,722
1944	2,529,693	708,815	0	3,238,508
1945	2,665,947	707,433	0	3,373,380
1946	3,563,124	753,631	13,480	4,330,235
1947	3,897,300	824,020	128,936	4,850,256
1948	4,127,970	857,540	267,434	5,252,944
1949	4,380,250	883,657	254,749	5,518,656
1950	4,748,228	1,002,125	171,033	5,921,386
1951	4,783,549	1,107,552	206,319	6,097,420
1952	4,835,065	1,075,450	182,708	6,093,313
1953	4,861,372	1,057,288	164,097	6,082,757
1954	4,875,031	1,120,590	128,224	6,123,845
1955	5,070,211	1,373,638	145,522	6,589,371
1956	5,229,748	1,582,742	311,453	7,123,943
1957	5,054,729	1,698,477	154,921	6,908,127
1958	4,826,696	1,675,508	108,826	6,611,030
1959	5,117,766	1,909,242	124,150	7,151,158
1960	5,279,227	1,953,681	146,570	7,379,478
1961	5,226,673	1,964,825	154,652	7,346,150
1962	5,228,624	2,085,881	185,830	7,500,335
1963	5,179,634	2,099,437	188,986	7,468,057
1964	5,648,145	2,169,723	260,404	8,078,272

Source: All figures for 1913-32 and supply from Europe thereafter are compiled from U.S. Department of Commerce reports; from 1933 to date supplies from Canada and U.S. are compiled from reports to NAC and NSB respectively of mill shipments. Trade Association and government figures are not strictly comparable because of time lag between shipments and arrival dates and because of minor differences of newsprint definition.

Table 46. U.S. Newsprint Consumption and Stocks

Tons	Consumption		Lbs. per Cap.	Consumers' Stocks*	
	ANPA	Percent		ANPA	Total
1915					
1920					
1925	1,808,229	60.0	3,013,715	163,614	198,252
1930	2,735,428	76.0	3,599,247	256,472	305,830
1935	2,675,744	80.0	3,344,680	294,494	365,686
1936	2,953,557	80.0	3,691,946	305,385	378,505
1937	3,059,795	80.0	3,824,743	613,514	832,535
1938	2,737,815	80.0	3,422,269	315,027	409,929
1939	2,730,217	77.5	3,520,372	328,424	423,473
1940	2,855,952	76.5	3,731,331	356,472	465,733
1941	2,946,660	75.0	3,929,773	385,296	521,508
1942	2,834,940	74.3	3,815,532	479,349	645,492
1943	2,720,257	75.0	3,627,009	366,702	488,205
1944	2,351,096	72.5	3,242,891	342,280	483,822
1945	2,455,116	70.5	3,481,302	266,344	375,900
1946	3,136,276	73.0	4,296,268	292,806	409,867
1947	3,564,678	75.0	4,752,904	377,033	507,219
1948	4,009,829	78.0	5,140,806	458,145	619,357
1949	4,257,489	77.0	5,529,206	445,863	608,807
1950	4,541,760	76.5	5,936,941	424,960	593,252
1951	4,511,023	75.5	5,974,865	522,196	715,807
1952	4,551,238	76.0	5,988,471	611,909	820,649
1953	4,668,602	76.0	6,142,896	551,769	760,510
1954	4,683,698	76.0	6,162,761	516,363	721,594
1955	5,044,993	76.0	6,638,149	458,352	672,816
1956	5,208,761	75.5	6,899,020	635,756	897,739
1957	5,149,099	75.0	6,865,466	674,980	940,400
1958	4,949,986	74.5	6,644,276	651,698	907,154
1959	5,327,839	74.5	7,151,461	658,772	906,851
1960	5,532,154	74.5	7,425,709	628,092	860,620
1961	5,460,990	74.0	7,379,716	583,949	827,054
1962	5,577,325	74.5	7,486,342	603,501	841,047
1963	5,584,871	74.0	7,547,124	545,090	761,980
1964	6,031,281	75.0	8,041,706	584,551	798,546

* End of Each Year.

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

ANPA: American Newspaper Publishers Association.

Source: Newsprint Association of Canada.

Table 48. Consumption by Larger Newspapers

Tons		1964	1963
CANADA			
Calgary Herald		9,155	8,409
Edmonton Journal		14,593	13,611
Halifax Chronicle-Herald & Mail-Star		8,000	7,500
Hamilton Spectator		14,961	13,954
London Free Press		15,456	13,710
Montreal Gazette		13,068	12,145
Montreal La Presse		15,395*	35,817
Montreal Star		29,700	28,400
Ottawa Citizen		8,652	8,554
Quebec Le Soleil-L'Evenement		14,273	13,302
Toronto Globe & Mail		26,464	25,320
Toronto Star		63,082	62,855
Toronto Telegram		34,920	33,453
Vancouver Sun & Province		39,716	37,450
Winnipeg Tribune		7,809	7,681
UNITED STATES			
Atlanta Journal & Constitution		81,767	78,712
Chicago American		47,115	46,434
Chicago Sun-Times & Daily News		139,889	135,849
Chicago Tribune		211,560	201,160
Cleveland Plain Dealer		83,658	56,810*
Detroit News		95,561*	139,655*
Los Angeles Times		286,258	261,384
Louisville Courier-Journal & Times		46,904	46,050
Milwaukee Journal & Sentinel		103,781	99,578
New York News		269,426	196,998*
New York Times		277,382	190,758*
Philadelphia Inquirer		130,624	131,511
St. Louis Post-Dispatch		74,010	69,610
Washington Post		114,725	99,350

*Curtailed by strike.

Source: Newsprint Association of Canada. Figures supplied by the individual newspapers. Most of the consumption figures include newsprint used in weekend supplements and comics.

Table 49. U.S. Newspaper Circulation

Million copies; as at Sept. 30 of each year				
Year	Morning	Evening	Total Daily	Sunday
1920			27.8	17.1
1925			33.7	23.4
1930			39.6	26.4
1935	14.4	23.7	38.2	28.1
1936	15.3	25.0	40.3	30.0
1937	15.9	25.5	41.4	31.0
1938	15.1	24.5	39.6	30.5
1939	15.5	24.2	39.7	31.5
1940	16.1	25.0	41.1	32.4
1941	16.5	25.6	42.1	33.4
1942	17.1	26.3	43.4	35.3
1943	17.1	27.3	44.4	37.3
1944	18.1	27.9	46.0	37.9
1945	19.2	29.1	48.4	39.9
1946	20.5	30.4	50.9	43.7
1947	20.8	30.9	51.7	45.1
1948	21.1	31.2	52.3	46.3
1949	21.0	31.8	52.8	46.4
1950	21.3	32.5	53.8	46.6
1951	21.2	32.8	54.0	46.3
1952	21.2	32.8	54.0	46.2
1953	21.4	33.1	54.5	45.9
1954	21.7	33.4	55.1	46.2
1955	22.2	34.0	56.2	46.5
1956	22.5	34.6	57.1	47.2
1957	23.2	34.6	57.8	47.0
1958	23.2	34.2	57.4	47.0
1959	23.5	34.8	58.3	47.8
1960	24.0	34.9	58.9	47.7
1961	24.1	35.2	59.3	48.2
1962	24.6	35.3	59.9	48.9
1963	23.5	35.4	58.9	46.8
1964	24.4	36.0	60.4	48.4

Source: Editor & Publisher International Year Book.

Table 52. U.S. Advertising Indexes

1947-9 = 100; Television 1950-2 = 100							
Year	News- papers	Maga- zines	Radio	Tele- vision	Business Papers	Out- door	*Com- bined
1935	44	27	21	..	21	24	35
1936	49	32	22	..	25	30	40
1937	51	39	30	..	29	34	43
1938	46	34	31	..	25	33	40
1939	46	36	34	..	28	34	41
1940	48	40	39	..	31	35	44
1941	49	43	45	..	36	41	47
1942	47	40	48	..	40	34	45
1943	53	55	57	..	58	33	52
1944	52	65	72	..	72	43	57
1945	54	73	78	..	84	56	60
1946	68	85	83	..	87	67	70
1947	86	99	93	..	95	95	89
1948	102	103	103	..	103	103	102
1949	112	99	105	18	102	102	109
1950	121	103	111	54	103	111	120
1951	132	115	111	104	120	116	135
1952	144	123	114	142	150	126	150
1953	154	134	112	190	162	138	164
1954	157	134	103	252	167	146	171
1955	180	146	100	321	183	150	193
1956	189	159	104	379	203	156	207
1957	192	163	113	399	233	161	216
1958	186	154	113	425	221	150	216
1959	207	173	120	468	233	151	236
1960	216	188	127	498	250	159	250
1961	211	185	125	530	237	141	248
1962	215	195	135	595	245	133	259
1963	222	207	144	637	252	133	274
1964 est.	237	222	152	701	255	136	293

*Including Farm Publications, Direct Mail and Miscellaneous.

Source: Printers' Ink; dollar expenditures.

Table 50. U.S. Newspaper Pages Printed

Annual Averages					
Year	Dallies	Sundays	Year	Dallies	Sundays
1920	23	79	1950	36	112
1925	29	109	1951	36	113
1930	29	91	1952	36	117
1935	26	82	1953	37	121
1940	27	86	1954	36	122
1941	27	88	1955	40	132
1942	26	82	1956	41	135
1943	26	78	1957	40	138
1944	23	68	1958	39	135
1945	22	70	1959	42	141
1946	27	84	1960	43	142
1947	29	94	1961	43	139
1948	32	102	1962	45	145
1949	34	107	1963	46	148
			1964	47	154

Source: Newsprint Service Bureau Bulletins.

Table 51. U.S. Newspaper Advertising and Total Advertising Expenditures

Millions of Dollars			
Year	Newspaper Advertising	Total Advertising	Newspaper Percent of Total
1935	762.1	1690.0	45.1
1940	815.4	2087.6	39.1
1941	844.4	2235.7	37.8
1942	797.5	2156.1	37.0
1943	899.9	2496.4	36.0
1944	888.0	2723.6	32.6
1945	921.4	2874.5	32.1
1946	1158.3	3364.2	34.4
1947	1475.0	4259.7	34.6
1948	1749.6	4863.6	36.0
1949	1915.7	5202.2	36.8
1950	2075.6	5710.0	36.3
1951	2257.7	6426.1	35.1
1952	2472.8	7156.2	34.6
1953	2644.8	7755.3	34.1
1954	2695.3	8164.1	33.0
1955	3087.8	9194.4	33.6
1956	3235.6	9904.7	32.7
1957	3283.3	10310.6	31.8
1958	3192.8	10301.8	31.0
1959	3546.0	11254.8	31.5
1960	3702.8	11931.7	31.0
1961	3623.1	11845.0	30.6
1962	3681.4	12380.8	29.7
1963	3803.9	13980.7	29.0
1964 est.	4068.6	13980.7	29.1

Source: Printers' Ink.

Table 53. U.S. Advertising Expenditures (All Media) and National Income

Millions of Dollars			
Year	Advertising Expenditure	National Income	Percent Advertising to Income
1935	1,690.0	57,057	2.96
1940	2,087.6	81,634	2.56
1941	2,235.7	104,710	2.14
1942	2,156.1	137,694	1.57
1943	2,496.4	170,310	1.47
1944	2,723.6	182,639	1.49
1945	2,874.5	181,248	1.59
1946	3,364.2	180,879	1.86
1947	4,259.7	198,177	2.15
1948	4,863.6	223,487	2.18
1949	5,202.2	217,690	2.39
1950	5,710.0	241,876	2.36
1951	6,426.1	279,313	2.30
1952	7,156.2	292,155	2.45
1953	7,755.3	305,573	2.54
1954	8,164.1	301,794	2.71
1955	9,194.4	330,206	2.78
1956	9,904.7	350,836	2.82
1957	10,310.6	366,943	2.81
1958	10,301.8	367,384	2.80
1959	11,254.8	400,481	2.81
1960	11,931.7	414,497	2.88
1961	11,845.0	426,932	2.77
1962	12,380.8	455,618	2.72
1963	13,107.4	478,493	2.74
1964 est.	13,980.7	509,800	2.74

Source: Printers' Ink; U.S. Department of Commerce.

"E"—OTHER PAPER AND PAPERBOARD

All figures after 1948 include Newfoundland

Table 54. Paperboard Production — Tonnage and Value, 1944-1964

Tons	Container Board			Boxboard			Total
	Liners	Container Chipboard	Corrugating Board	For Folding Cartons	For Set-up Boxes	Other	
1944	139,912	6,669	80,493	114,005	52,893	144,082	538,054
1945	137,059	7,096	78,756	125,691	45,605	146,549	540,756
1946	167,786	6,480	90,347	138,370	46,556	166,500	616,039
1947	175,221	6,047	102,655	147,700	46,184	177,854	655,661
1948	184,524	6,858	128,697	154,745	49,225	183,371	707,420
1949	184,694	7,708	129,121	143,215	45,525	174,582	684,845
1950	214,234	6,533	144,892	157,690	47,625	199,761	770,735
1951	223,226	5,813	152,801	172,220	49,376	217,025	820,461
1952	219,113	2,344	132,068	155,564	43,281	190,898	743,268
1953	236,917	4,130	145,068	169,428	47,731	201,174	804,448
1954	243,764	3,465	131,678	174,945	45,552	199,115	798,519
1955	258,914	8,901	148,929	185,877	47,901	210,849	861,371
1956	330,290	8,968	162,688	215,758	47,900	212,345	977,949
1957	309,278	8,403	154,949	214,678	46,133	192,107	925,548
1958	318,286	7,510	173,143	236,559	61,319	182,732	979,549
1959	354,874	8,955	175,935	241,290	72,431	179,845	1,033,330
1960	375,563	9,665	198,221	246,437	65,065	164,926	1,059,877
1961	392,959	(a)	202,350	229,663	72,160	143,984	1,057,393
1962	440,845	(a)	224,417	263,922	79,371	159,734	1,168,289
1963	510,777	(a)	226,807	301,730	77,648	173,244	1,290,140
1964	527,328e	(a)	234,157e	335,543e	86,344e	192,661e	1,376,033e
Value							
1944	\$ 9,169,795	\$ 284,431	\$ 5,106,671	\$ 9,357,929	\$3,189,647	\$ 7,389,233	\$34,497,706
1945	9,102,314	332,637	4,997,024	10,296,273	2,708,330	7,673,664	35,110,242
1946	12,465,659	287,541	6,285,008	12,338,532	2,898,488	9,357,733	43,632,961
1947	15,971,032	317,514	8,959,472	15,850,814	3,654,451	12,084,914	56,838,197
1948	18,720,922	500,626	12,378,382	18,419,579	4,401,271	14,361,233	68,782,013
1949	19,535,008	636,746	12,979,462	17,361,974	4,066,408	13,691,804	68,271,402
1950	23,159,467	521,563	15,273,658	20,085,066	4,502,702	16,840,063	80,382,519
1951	26,965,789	623,634	17,926,975	26,380,718	5,546,965	19,865,271	97,309,352
1952	26,808,593	256,336	15,224,621	24,754,164	4,954,302	19,047,337	91,045,353
1953	29,678,077	377,602	16,909,644	26,730,967	5,534,974	19,330,051	98,561,315
1954	31,811,172	306,358	15,984,824	29,031,203	5,450,701	19,489,843	102,074,101
1955	33,877,272	935,514	18,725,717	30,910,250	5,732,654	21,530,335	111,711,742
1956	44,611,116	1,023,910	20,855,656	37,774,510	6,040,836	20,827,607	131,133,635
1957	42,713,446	971,560	20,414,454	38,726,290	5,919,456	19,248,726	127,993,932
1958	44,211,289	899,046	22,394,858	42,886,624	7,660,571	18,256,825	136,309,213
1959	49,286,428	1,066,851	22,869,372	45,275,135	9,398,910	17,695,131	145,591,827
1960	51,497,522	1,157,076	24,818,851	46,309,600	8,217,262	17,002,656	149,002,967
1961	55,592,928	(a)	26,156,474	45,858,501	9,374,342	15,320,272	152,302,517
1962	60,795,066	(a)	28,327,937	48,328,370	9,831,475	16,521,335	163,804,641
1963	71,121,613	(a)	27,704,903	55,097,149	9,960,685	18,622,406	182,506,756
1964	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

NOTE: See notes A and B of Table 56.

(a) Included with Corrugating Board.

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 55. Production — Other Papers and Boards — Tonnage and Value, 1944-1964

Tons	Wrapping	Book and Writing (a)	Tissue and Sanitary	Building Papers	Building Boards (b)	Wet Machine Boards (c)	Special Industrial Papers
1944	156,721	155,498	46,532	50,879	50,294	—	6,615
1945	162,175	162,198	50,418	58,199	54,261	—	7,536
1946	175,369	189,318	56,717	71,081	67,402	—	9,034
1947	188,742	210,762	67,506	79,858	88,612	—	9,677
1948	207,128	231,608	69,686	88,454	109,912	—	9,102
1949	195,585	199,317	68,340	83,471	105,061	7,117	9,027
1950	222,840	214,097	76,742	92,414	97,223	8,936	10,060
1951	257,332	253,081	89,583	91,527	131,295	8,737	12,140
1952	222,529	224,683	79,974	81,666	122,986	8,328	11,336
1953	238,111	246,513	86,523	90,906	136,748	7,759	10,047
1954	250,408	269,353	94,643	85,390	134,365	7,312	8,722
1955	263,915	301,352	106,752	96,494	157,718	8,352	7,940
1956	288,146	341,580	119,197	92,399	186,813	8,325	7,266
1957	277,208	335,037	122,538	81,949	180,236	8,942	6,780
1958	292,727	344,622	128,465	90,125	202,375	6,726	5,774
1959	330,189	381,779	139,532	84,933	215,080	7,282	6,622
1960	321,166	403,668	148,635	76,899	210,328	7,349	6,030
1961	326,974	419,612	156,919	74,146	221,216e	8,876	6,598
1962	333,035	434,666	168,906	88,817	209,612e	9,658	7,743
1963	340,604	464,687	201,094	89,858	218,550e	(d)	15,575
1964	342,824e	560,993e	191,272e	92,312e	240,408e	(d)	17,238e
Value							
1944	\$16,699,663	\$23,700,310	\$ 6,391,770	\$3,017,412	\$ 4,593,961	—	\$ 989,854
1945	17,558,552	24,468,409	7,065,732	3,459,384	4,981,280	—	1,170,279
1946	20,797,070	29,995,156	9,015,540	4,684,693	6,564,864	—	1,456,496
1947	26,009,996	39,727,187	12,179,656	5,703,911	9,276,977	—	1,824,684
1948	31,036,805	45,178,968	13,927,917	7,368,976	12,070,987	—	1,881,458
1949	30,033,478	40,598,820	13,950,007	6,320,791	11,338,155	\$1,022,518	1,948,324
1950	37,776,291	47,356,410	15,885,792	7,228,146	10,790,198	1,358,994	2,407,269
1951	49,664,005	63,790,259	21,574,730	7,889,667	14,528,293	1,632,305	3,279,845
1952	45,356,720	57,463,621	18,620,728	6,871,543	13,522,958	1,498,311	3,209,914
1953	49,028,911	61,451,545	19,198,013	6,914,762	14,947,362	1,469,600	2,878,946
1954	51,341,374	68,613,807	21,998,699	6,440,439	13,665,290	1,433,300	2,536,289
1955	53,998,859	74,904,349	23,825,157	7,716,375	17,016,550	1,637,459	2,290,387
1956	61,098,013	86,524,107	30,110,095	7,094,205	15,264,142	1,569,563	2,054,546
1957	60,402,276	86,990,136	28,338,864	6,441,566	13,467,773	1,617,714	2,109,990
1958	64,650,624	91,079,353	27,779,824	6,673,725	15,042,684	1,458,856	1,739,533
1959	71,318,172	101,927,846	30,479,267	6,811,034	16,084,501	1,474,695	1,928,304
1960	70,778,384	106,573,848	33,113,245	5,668,023	15,361,303	1,436,380	1,742,173
1961	71,427,264	112,594,587	35,116,462	5,071,136	29,578,011	1,785,353	1,894,451
1962	73,104,234	121,123,118	37,467,757	6,229,252	33,534,473	1,983,922	2,221,375
1963	75,593,680	127,455,443	43,965,531	6,432,035	34,555,625	(d)	4,010,233
1964	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

NOTE: See notes A and B of Table 56.

(a) Groundwood Printing and Specialty Papers (containing more than 50% groundwood); Book Paper (including printing papers with 50% or less groundwood); Fine Papers; and Miscellaneous Fine Papers.

(b) Reported in Pulp and Paper industry only. Wood-pulp board used in paper-converting plants to produce laminated building boards is reported by pulp and paper mills as "Other Boxboard."

(c) Prior to 1949 some producers of wet machine board were classed in another industry, and small quantities reported in the pulp and paper industry were added with "Other Boxboards" until 1943 and with "Special Industrial Papers" since 1944.

(d) Included with Special Industrial Papers.

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 56. Production — Tonnage and Value, 1920 - 1943

	Paperboard		Wrapping		Book and Writing		Tissue		All Other	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value	Tons	Value
1920	158,041	\$12,904,662	77,292	\$12,161,303	73,196	\$21,868,807	3,607	\$1,155,324	27,119	\$3,067,400
1925	144,646	8,378,621	91,417	8,130,102	74,724	13,145,407	7,200	1,385,089	30,195	2,852,815
1930	233,217	12,193,829	78,320	7,880,224	69,468	12,261,659	11,245	2,035,325	36,585	2,752,954
1935	314,849	15,051,893	82,517	7,956,783	70,350	10,440,789	18,107	2,031,221	29,629	1,835,499
1936	363,778	17,531,451	95,916	8,761,356	74,940	10,866,346	18,661	2,085,489	28,029	1,895,491
1937	422,710	21,719,730	108,734	10,237,823	84,168	12,620,507	23,747	2,734,307	32,116	2,148,753
1938	356,891	19,288,172	90,879	9,069,298	73,834	11,098,901	25,922	2,961,482	32,919	2,181,010
1939	413,687	21,359,828	109,907	10,712,394	90,135	12,773,781	29,706	3,060,456	30,470	2,011,020
1940	500,094	31,078,759	139,716	14,457,299	102,696	15,518,667	34,054	3,709,952	39,053	2,624,821
1941	649,840	40,214,658	162,581	16,744,806	117,444	18,476,397	35,725	4,199,139	39,453	2,889,982
1942	609,175	38,641,867	165,991	17,221,769	121,419	19,181,665	38,322	5,036,489	39,680	3,113,613
1943	568,101	37,528,257	145,545	15,614,453	122,174	19,047,039	43,247	5,637,142	40,835	3,246,393

NOTE "A": A new classification, adopted in 1944 by the Dominion Bureau of Statistics, differs from the one given above. However, for purposes of general comparison with the years 1920-43, some of the figures given in Tables 58 and 59 may be utilized. "Paperboard," "Building Boards," and "Wet Machine Boards" would approximate the "Paperboard" group given above, while "Special Industrial Papers" and "Building Papers" would approximate the "All Other" group. The "Book and Writing" and "Wrapping" groups are virtually identical in both classifications, while "Tissue and Sanitary" is nearly comparable to the "Tissue" classification given above.

NOTE "B": Some of these figures will differ somewhat from those issued by the industry itself, as DBS classifications differ at times from those of the Canadian Pulp and Paper Association.

Source: Dominion Bureau of Statistics

Table 57.

Exports of Paper (Except Newsprint) — Tonnage and Value, 1960-1964

In the past, the basis and classification upon which exports of paper other than newsprint have been compiled have been modified from time to time. Consequently, only figures covering recent years are included in this and Tables 58, 59 and 60.

Moreover, because they are compiled on a somewhat different basis, the two tables which follow are not comparable to the production figures in Tables 54, 55 and 56.

Also, some of the exports go through a converting plant before shipment. Thus, many of the exports have a value enhanced by the conversion or packaging process, whereas the production figures show the valuation at the basic rate.

Again, the tonnage figures for certain paper products exported are not available. The dollar figures covering these exports will be found in the following tables, under the heading "Paper Products".

A new Export Commodity Classification was adopted by the Dominion Bureau of Statistics at the beginning of 1961. Accurate comparison between statistics for 1961 and those of earlier years is not always possible for paper and paper products, especially for individual commodities, but the group totals are generally comparable.

	Book & Writing							Coated Paper, Except Machine Coated	Roofing & Building Paper	Special Industrial Paper	
	Book, Printing & Litho	Bond & Writing Uncut	Groundwood Printing n.o.p.	Book & Litho, Uncoated	Book, n.o.p.	Writing & Reproduction	Fine Paper, n.o.p.				TOTAL BOOK & WRITING
Tons											
1960	52,370	8,827	—	—	—	—	—	61,197	—	—	
1961	—	—	33,492	4,357	8,481	16,422c	924	63,676	921	40	
1962	—	—	40,297	—	7,535	18,562	3,575	69,969	1,009	385	
1963	—	—	48,829	—	4,855	21,568	3,224	78,476	1,286	2,236	
1964	—	—	68,635	—	4,938	29,405	4,525	107,503	1,276	1,670	
Value											
1960	\$9,695,879	\$2,473,806	—	—	—	—	—	\$12,169,685	—	—	
1961	—	—	\$5,605,170	\$1,025,710	\$1,662,415	\$4,312,423c	\$274,537	\$383,952	\$221,555	\$ 7,465	
1962	—	—	6,619,991	—	1,604,533	4,967,639	820,447	436,231	296,738	93,120	
1963	—	—	7,717,416	—	982,383	6,068,897	809,695	506,770	461,761	443,769	
1964	—	—	10,933,715	—	1,056,730	7,920,075	1,161,809	21,072,329	693,765	381,957	
	Wrapping										
	Coated	Bleached Sulphite & Sulphate	Unbleached Sulphite & Sulphate	Wrapping n.o.p.	TOTAL WRAPPING	Tissue	Toilet	Tissue Except Sanitary	Sanitary Paper	Hanging, Not Printed	Waste Paper, n.o.p.
Tons											
1960	205	2,018	29,588	2,390	34,201	468	4,480	—	—	—	41,702
1961	—	2,187	40,163	313	42,663	—	—	1,137	5,717	3,170	35,852c
1962	—	2,649	32,329	674	35,652	—	—	201	12,938	3,526	45,196
1963	—	7,244	22,469	1,166	30,879	—	—	198	11,466	3,813	45,911
1964	—	9,065	19,985	3,326	32,376	—	—	195	14,621	2,840	47,868
Value											
1960	\$86,863	\$475,321	\$4,508,604	\$337,468	\$5,408,256	\$141,693	\$970,761	—	—	—	\$1,609,374
1961	—	450,521	5,891,110	122,504	6,464,135	—	—	\$268,221	\$1,228,436	\$443,899	\$1,326,101c
1962	—	598,302	4,944,152	169,113	5,711,567	—	—	42,146	2,961,882	544,767	1,641,081
1963	—	1,491,447	3,515,806	304,523	5,311,776	—	—	56,835	2,539,765	569,012	1,885,164
1964	—	1,994,718	3,096,010	617,529	5,708,257	—	—	49,735	3,409,832	412,586	2,186,181
	Paperboard							Building Board			
	Container Board	Solid Bl. & Folding Boxboard, n.o.p.	Set-up Boxboard, n.o.p.	Wet Machine Board	Pulpboard for Building Board	Paperboard n.o.p.	TOTAL PAPERBOARD	Rigid Insulating Board	Hardboard	Building Board, n.o.p.	TOTAL BUILDING BOARD
Tons											
1960	84,955	—	—	1,660	345	19,129	106,089	12,233	11,255	1,498	24,986
1961	93,634	6,022	4,410	1,441	20	686	106,213	11,389	12,332	154	23,875
1962	109,919	5,815	3,497	2,025	19	9,794	131,069	11,495	11,975	161	23,631
1963	146,771	5,299	3,930	1,364	11	12,828	170,203	14,745	17,443	979	33,167
1964	151,005	5,649	6,780	1,319	—	14,567	179,320	19,481	20,085	2,502	42,068
Value											
1960	\$ 9,301,972	—	—	\$326,065	\$40,328	\$2,515,244	\$12,183,609	\$1,364,850	\$736,198	\$157,863	\$2,258,911
1961	10,407,422	\$1,054,063	\$608,421	302,034	3,445	85,214	12,460,599	1,309,352	859,137	22,724	2,191,213
1962	12,400,908	980,394	498,621	477,199	2,335	1,032,130	15,391,587	1,379,023	1,015,196	22,994	2,417,213
1963	16,777,796	924,634	560,548	350,759	1,405	1,356,572	19,971,714	1,677,139	1,621,282	98,380	3,396,801
1964	17,024,661	997,645	498,055	365,245	—	1,483,348	20,818,954	2,267,206	1,851,471	353,160	4,471,837

Total Exports of Paper (except Newsprint) 1960: 274,997 tons \$34,963,844; 1961: 297,024 tons \$37,951,014; 1962: 328,098 tons \$43,713,965; 1963: 384,594 tons \$50,953,762; 1964: 442,600 tons \$60,166,479.

NOTE: See note B of Table 56.

c: Corrected figure.

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

Source: Dominion Bureau of Statistics.

Table 58.

Export of Paper Products — Value, 1961-1964

	Paper Bags & Multi-wall Sacks \$	Paper Containers & parts n.o.p. \$	Hangings or Wall Paper \$	Packaged Toilet Paper Tons	Note-books Scribbles & Pads \$	Stationery Paper Office Supplies n.o.p. \$	Converted Paper n.o.p. Tons	Paper End Products n.o.p. \$	TOTAL \$
1961	543,480	702,785c	1,378,034	1,551	425,810	147,238c	307,864c	752	3,888,273
1962	498,702	1,110,040	1,645,190	2,326	643,871	160,593	368,838	408	4,984,522
1963	483,644	1,039,536	1,665,315	3,144	955,347	223,807	449,901	1,701	6,540,540
1964	578,756	1,350,453	1,804,955	3,343	983,745	253,142	531,345	4,730	9,030,753

NOTE: See note B of Table 56.

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

c: Corrected figures.

Source: Dominion Bureau of Statistics.

Table 59. Exports of Paper (Except Newsprint) — Tonnage and Value, 1951-1959

Tons	Wrapping			Book	Bond & Writing	Paper-board, n.o.p.	Roofing & Building Paper	Bldg. & Insul'g Board	Waste Paper, n.o.p.	Pulpboard for Wallboards	Tissue Paper	Toilet Paper	TOTALS
	Coated	Kraft, n.o.p.	n.o.p.										
1951	1,266	12,366	3,019	27,438	7,347	69,259	6,662	21,738	27,081	23,068	418	3,487	203,149
1952	944	10,622	2,369	28,772	10,130	51,605	1,755	19,328	21,693	20,933	924	2,699	171,774
1953	149	10,227	788	28,401	7,077	34,104	3,811	18,752	30,890	17,812	1,279	759	154,049
1954	43	10,788	2,874	26,739	8,904	25,571	1,534	17,584	24,568	15,998	1,035	2,009	137,647
1955	119	14,218	3,940	33,195	8,441	40,442	722	47,460	42,356	14,307	1,031	4,109	210,340
1956	49	13,457	1,805	38,239	6,392	67,956	445	38,566	36,072	11,087	472	3,725	218,265
1957	346	18,121	1,799	37,346	6,033	79,617	502	39,254	43,085	7,771	216	4,161	238,251
1958	149	29,965	2,295	41,933	5,996	71,976	685	26,523	38,428	9,751	131	2,368	230,200
1959	1,346	37,473	3,865	51,277	7,617	74,012	1,014	36,977	39,941	4,891	424	3,069	261,906
Value													
1951	\$485,843	\$2,665,974	\$577,155	\$5,283,533	\$2,567,668	\$9,410,511	\$577,052	\$2,327,497	\$2,154,913	\$2,324,008	\$150,996	\$804,966	\$29,330,116
1952	308,135	2,232,134	636,867	5,343,040	3,770,853	6,990,766	152,225	2,096,727	936,118	2,165,043	259,605	609,977	25,501,490
1953	56,641	1,670,077	149,558	4,872,808	1,719,073	3,426,320	247,104	1,764,374	997,737	1,827,255	294,006	159,959	17,184,912
1954	22,942	1,842,567	468,267	4,540,362	2,287,799	3,113,557	100,285	1,476,704	929,105	1,640,490	279,768	372,742	17,074,588
1955	72,095	2,479,073	655,097	5,917,168	2,350,075	4,971,027	50,655	4,279,996	1,716,952	1,477,864	285,551	763,713	25,019,266
1956	26,945	2,394,180	298,646	7,137,201	1,998,566	9,058,868	41,436	3,737,146	1,569,451	1,224,360	136,071	803,332	28,426,202
1957	133,346	3,039,781	288,351	7,227,440	1,899,531	10,780,495	41,376	3,963,261	1,700,493	845,890	46,361	935,965	30,902,290
1958	61,294	4,854,032	303,272	7,769,745	1,838,448	9,290,976	57,734	2,625,503	1,602,126	1,041,881	30,169	475,939	29,951,119
1959	358,618	6,048,507	691,323	9,392,153	2,273,195	9,168,602	82,912	3,609,842	1,666,472	541,834	95,098	632,470	34,561,026

NOTE: See note B of Table 56.

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

Source: Dominion Bureau of Statistics.

Table 60. Exports of Paper Products — Value, 1951-1960

	Bags, Boxes & Cartons	Hanging or Wall	Hanging, not Printed	Writing Paper, n.o.p.	Other Paper Products	TOTAL
1951	\$1,834,501	\$1,081,319	\$ 11,971	\$193,041	\$1,158,686	\$4,279,518
1952	973,982	1,005,842	48,456	195,922	668,650	2,892,852
1953	552,139	730,895	170,535	90,261	538,557	2,082,387
1954	419,497	865,731	287,085	90,557	510,596	2,173,466
1955	374,902	553,949	390,492	85,661	794,139	2,199,143
1956	484,525	943,495	748,827	66,691	970,676	3,214,214
1957	496,681	924,782	434,244	86,452	1,776,066	3,718,225
1958	616,059	1,149,737	512,127	120,838	1,108,959	3,507,720
1959	503,187	1,398,243	457,759	37,317	1,138,911	3,535,417
1960	600,172	1,773,608	556,806	84,542	1,132,624	4,147,752

Source: Dominion Bureau of Statistics.

Table 61. Imports of Paper and Paperboard

Year	Fine Papers Tons	Tissue and Sanitary Papers Tons	Wrapping Papers Tons	Specialty Papers Tons	Other Paper-boards Tons	Building Papers and Boards Tons
1935	6,485	1,601	2,884	2,772	4,528	1,781
1936	6,442	1,812	2,314	3,492	4,859	2,385
1937	7,390	4,008	2,106	3,183	6,097	3,324
1938	6,422	4,783	1,957	2,500	9,662	3,812
1939	8,244	6,486	2,702	2,777	11,401	5,203
1940	7,309	8,863	1,234	2,185	10,938	3,830
1941	6,153	8,047	702	2,089	12,488	4,935
1942	6,262	7,903	1,488	2,202	12,717	6,815
1943	5,821	8,242	1,714	1,690	10,659	6,515
1944	6,004	8,812	1,386	2,026	11,653	6,033
1945	5,727	7,566	1,762	2,269	11,626	12,167
1946	10,270	5,724	3,201	3,214	12,852	11,776
1947	11,724	6,180	3,705	3,505	13,462	18,169
1948	8,100	4,337	1,033	1,880	15,241	4,460
1949	8,298	8,416	768	1,699	17,409	18,768
1950	8,648	6,334	1,223	2,332	17,855	9,999
1951	10,844	4,408	2,416	3,464	34,570	14,318
1952	11,462	4,153	1,263	2,279	32,364	14,604
1953	11,502	6,421	1,297	3,917	42,188	27,681
1954	14,882	7,370	3,634	4,304	52,127	32,084
1955	17,186	8,418	3,535	4,750	67,061	33,008
1956	17,578	9,115	4,147	5,585	77,854	41,722
1957	17,349	11,041	6,292	5,206	79,402	38,220
1958	20,491	11,892	8,542	5,206	84,379	36,553
1959	21,319	11,874	5,456	5,655	85,805	43,042
1960	20,295	10,538	4,452	5,043	80,679	42,846
1961	22,181	8,687	4,660	5,233	107,887	37,020
1962	22,242	8,173	2,547	5,714	98,292	33,069
1963	22,961	7,388	3,813	6,110	91,223	27,741
1964	20,791	7,067	11,501	8,373	84,216	27,865

Note: This table covers all paper and paperboard imports for which tonnage is reported in classifications used prior to 1st January 1964 as well as in the present Import Classification which took effect as of that date. Commodities now classed as "End products" and for which tonnage is no longer available (such as paper boxes and bags and carbon paper) having been eliminated throughout, all series are fully comparable.

Source: Dominion Bureau of Statistics.

Table 62. Other Paper and Paperboard Annual Capacity

	Paper-board	Wrapping Paper	Writing Paper	Book and Tissue and Sanitary Paper
January 1st,				
				Thousands of tons
1952	821	260	264	92
1953	836	265	268	98
1954	852	258	272	109
1955	920	293	282	120
1956	942	307	249	121
1957	1,026	318	357	133
1958	1,085	371	386	141
1959	1,116	359	392	147
1960	1,162	357	429	161
1961	1,220	377	459	167
1962	1,241	371	485	174
1963	1,332	412	492	194
1964	1,372	397	578	198
1965	1,399	381	609	221

Source: Canadian Pulp and Paper Association estimates.

"F"—NATIONAL SIGNIFICANCE

All figures after 1948 include Newfoundland

Table 63.
Pulp and Paper Production and the National Income

	Gross Production of Industry † (a) '000,000	Gross National Product † (a) '000,000	Net Production of Industry (b)	Net National Income † (a) '000,000
1926	\$ 215,370,274	\$ 5,152	\$109,580,404	\$ 4,129
1930	215,674,246	5,728	107,959,927	4,399
1935	159,325,546	4,315	79,199,741	3,099
1936	183,632,995	4,653	86,406,163	3,367
1937	226,244,711	5,257	106,002,017	3,887
1938	183,897,503	5,278	89,034,186	4,001
1939	208,152,295	5,636	103,123,660	4,236
1940	298,034,843	6,743	158,230,575	5,063
1941	334,726,175	8,328	174,852,041	6,305
1942	336,697,277	10,327	164,500,420	8,098
1943	344,411,614	11,088	164,244,088	8,802
1944	369,846,086	11,850	174,492,103	9,583
1945	398,804,515	11,835	180,401,885	9,665
1946	527,814,916	11,850	258,164,578	9,551
1947	706,971,628	13,165	356,084,900	10,361
1948	825,857,664	15,120	412,770,470	12,003
1949	836,148,393	16,343	423,375,527	12,905
1950	954,137,651	18,006	511,142,983	14,161
1951	1,237,897,470	21,170	679,257,743	16,588
1952	1,157,887,657	23,995	584,101,072	18,654
1953	1,179,665,443	25,020	599,934,934	19,294
1954	1,241,665,451	24,871	641,410,070	19,032
1955	1,326,938,138	27,132	689,818,173	20,737
1956	1,465,057,726	30,585	736,346,393	23,166
1957c	1,415,820,000	31,909	689,008,000e	24,011
1958c	1,398,348,000	32,894	705,569,000	25,011
1959c	1,502,312,000	34,915	762,884,000	26,482
1960c	1,583,107,000	36,287	814,798,000	27,433
1961c	1,634,606,000	37,471	842,420,000	28,250
1962c	1,719,961,000	40,561	883,921,000	30,617
1963c	1,790,572,000	43,180	914,258,000	32,622

† Includes Newfoundland since 1949. In 1948, the last year before accession, Newfoundland's Gross National Product was about \$175 million.

All National Income figures from 1926 have been compiled on a revised basis in December, 1951. Figures for years prior to 1926 are not comparable.

a: The "national income" is the total of all incomes earned by Canadians in the production of goods and services during the calendar year. The "gross national product" is the market value of all goods and services produced by Canadians. It is obtained by adding to the national income two items which are not "income" but which are part of the final cost of all goods and services—namely, allowances for depreciation of plant and equipment, and indirect taxes less subsidies.

b: The "net value of production" or value added by manufacture is computed by subtracting the cost of fuel and electricity as well as the cost of materials from the gross value of the products.

c: See notes 1 and 2, Table 86.

e: Canadian Pulp and Paper Association estimate.

The figures for the years prior to 1926, when the National Income figures were compiled on a different basis and for which the gross National product figures are not available, were as follows:

	Gross Production of Industry	Net Production of Industry	National Income
1921	\$151,003,165	\$73,765,200	\$3,507
1925	193,092,937	99,071,212	4,239

Source: Dominion Bureau of Statistics.

Table 65. Mill Locations—1963

	Pulp Mills	Pulp & Paper Mills	Paper Mills	Total
Newfoundland	—	2	—	2
Nova Scotia	2	2	—	4
New Brunswick	4	3	1	8
Quebec	10	33	10	53
Ontario	4	22	12	38
Manitoba	—	3	—	3
Saskatchewan	—	1	—	1
Alberta	1	2	—	3
British Columbia	7	6	1	14
Canada	28	74	24	126

Source: Dominion Bureau of Statistics.

Table 64.
Pulp and Paper Exports and Canadian Trade

	Pulp & Paper Exports	Total Domestic Exports of Canada	Pulp & paper exports to total exports — %	Trade Balance
1919	\$ 97,168,278	\$1,253,958,483	7.86	\$348,778,322
1920	163,127,988	1,268,014,533	12.86	— 38,758,816
1925	154,555,951	1,239,554,207	12.47	361,472,800
1930	177,590,222	863,683,761	20.56	— 125,331,731
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	111,266,873
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
1947	550,872,950	2,774,902,355	19.85	237,846,285
1948	628,245,992	3,075,438,085	20.43	473,083,316
1949	630,544,034	2,998,356,417	21.03	261,245,593
1950	713,869,791	3,118,386,551	22.89	— 17,180,465
1951	939,239,090	3,914,460,376	23.99	— 121,472,163
1952	913,999,811	4,301,080,679	21.25	325,492,011
1953	887,751,816	4,117,405,882	21.56	— 210,229,315
1954	927,356,199	3,881,271,854	23.89	— 146,279,616
1955	991,543,046	4,281,784,253	23.16	— 361,086,299
1956	1,045,828,442	4,789,745,693	21.83	— 842,305,779
1957	1,043,559,448	4,839,094,393	21.56	— 689,030,235
1958	1,010,147,393	4,823,347,122	20.91	— 263,969,877
1959	1,073,485,013	5,060,710,152	21.21	— 368,620,973
1960	1,123,823,860	5,255,574,898	21.38	— 95,903,364
1961	1,151,558,228	5,754,985,880	20.00	126,636,907
1962	1,174,145,093	6,178,523,248	19.00	89,937,185
1963	1,226,130,150	6,798,538,017	18.04	90,453,446
1964	1,368,731,349	8,094,360,078	16.91	815,384,252

—: 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 66. Growth of Industry

	Pulp and Paper Mills (a)	Total Employees	Total Production (b)
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
1947	115	49,946	706,971,628
1949	123	52,050	836,148,393
1950	123	52,343	954,137,651
1951	126	57,291	1,237,897,470
1952	128	57,803	1,157,887,657
1953	127	58,194	1,179,665,443
1954	125	60,837	1,241,665,451
1955	125	62,205	1,326,938,138
1956	126	65,985	1,465,057,726
1957c	127	66,067	1,415,820,000
1958c	127	64,199	1,398,349,000
1959c	126	65,162	1,502,312,000
1960c	126	65,772	1,583,107,000
1961c	125	65,799	1,632,834,000
1962c	125	64,885	1,716,300,000
1963c	126	65,564	1,793,231,000

a: Number of mills operated during year.

b: Includes products other than pulp or paper.

c: See notes 1 and 2, Table 86.

Source: Dominion Bureau of Statistics.

Table 67. Production by Provinces 1963

Provinces	Woodpulp Tons	Basic Paper and Board Tons
Quebec	4,732,138	3,940,891
Ontario	3,073,917	2,563,265
British Columbia	2,501,429	1,239,978
Other Provinces	2,166,623	1,314,833
Canada	12,474,107	9,058,967

Source: Dominion Bureau of Statistics.

Table 69. Production and Exports of all Paper and Board

	Production		Exports	
	Tons	Value	Tons (a)	Value
1920	1,214,951	\$132,022,767	780,932	\$ 86,744,010
1925	1,884,705	140,160,675	1,442,296	106,624,046
1930	2,926,787	173,305,874	2,372,640	138,530,243
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	3,600,502	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
1947	5,775,082	507,101,277	4,452,090	373,070,338
1948	6,063,646	582,346,842	4,587,501	416,681,608
1949	6,539,969	641,459,838	4,952,283	459,039,871
1950	6,812,035	710,153,826	5,118,417	505,314,242
1951	7,225,271	824,029,649	5,359,303	574,106,206
1952	7,201,800	838,105,108	5,526,127	622,136,313
1953	7,376,526	887,858,473	5,541,197	639,079,083
1954	7,649,607	925,590,643	5,675,072	655,938,194
1955	8,000,213	981,439,247	5,989,991	694,238,977
1956	8,466,785	1,070,492,355	6,203,451	741,291,945
1957	8,299,889	1,056,371,332	6,153,847	751,153,346
1958	8,081,293	1,044,640,200	5,929,259	724,698,744
1959	8,549,859	1,106,071,106	6,201,564	762,232,215
1960	8,922,786	1,167,040,412	6,489,679	798,702,288
1961	8,990,130	1,219,372,104	6,568,437	804,897,515
1962	9,089,016	1,260,845,589	6,519,848	804,242,670
1963	9,277,517	1,245,469,350	6,657,083	820,837,722
1964	10,112,484e	n.a.	7,332,268	907,877,428

a: Weight of items of export classification for which tonnage figures are available (see note accompanying Table 57). The value figures, however, cover all exports of paper and paper products.

e: Canadian Pulp and Paper Association estimate.

n.a.: Not available.

Source: Dominion Bureau of Statistics.

Table 68. Capital Expenditures

For the years 1948 to 1963, annual surveys of the Department of Trade & Commerce, covering some 95 per cent of the industry, show the following capital expenditures:

Year	Millions of \$
1948	79.3
1949	71.8
1950	68.6
1951	108.9
1952	115.6
1953	91.9
1954	69.0
1955	118.3
1956	239.6
1957	234.4
1958	106.8
1959	126.6
1960	131.2
1961	123.9
1962	147.8
1963	181.6
1964p	302.3
	2,317.6

The foregoing figures do not include capital expenditures made on the woodlands nor, of course, expenditures for maintenance and renewals.

p: preliminary.

Source: Dominion Bureau of Statistics.

Table 70. Principal Canadian Exports

	1962	1963	1964
	Thousands of Dollars		
Wheat	601,518	786,804	1,023,112
Newsprint	753,060	759,990	834,646
Lumber	396,747	452,484	477,346
Wood-pulp	369,902	405,292	460,854
Iron ores and concentrates	220,522	270,949	356,007
Aluminum, including alloys	284,554	302,730	317,937
Crude petroleum	232,497	233,867	262,023
Aircraft and parts	146,917	108,293	248,784
Nickel and alloys	191,556	175,368	197,145
Copper and alloys	163,931	166,617	190,363
Nickel in ores, concentrates and scrap	132,308	149,236	166,036
Asbestos, unmanufactured	135,638	139,447	155,706
Whisky	84,885	90,125	102,820
Wheat flour	57,043	62,616	100,659
Hay harvesting machinery	55,727	75,172	98,973
Synthetic rubber and plastic materials	84,571	88,406	98,723
Natural gas	72,423	75,630	97,609
Fish, fresh or frozen	78,288	81,399	94,362
Fertilizers and fertilizer materials	60,250	74,756	86,750
Primary iron and steel	45,878	59,540	76,410
Radioactive ores and concentrates	166,009	137,531	74,653
Plate, sheet and strip of steel	48,800	61,350	71,708
Passenger automobiles and chassis	21,233	28,040	67,665
Copper in ores, concentrates and scrap	48,287	53,797	65,573
Motor vehicle parts, except engines	19,498	34,318	63,959
Zinc, including alloys	41,541	42,276	62,345
Dairy produce, eggs and honey	23,311	26,551	60,485
Zinc in ores, concentrates and scrap	19,782	18,805	54,776
Communication and related equipment	51,789	52,193	51,907
Barley	29,927	24,524	51,254
Navigation equipment and parts	23,572	48,820	51,221
Flaxseed	41,920	38,560	48,662

Source: Dominion Bureau of Statistics.

Table 71. Exports of Canadian Products to the United States

	1962	%	1963	%	1964	%
Live animals	\$ 64,422,470	1.79	\$ 38,312,169	1.02	\$ 30,114,551	7.0
Food, feed, beverages and tobacco	305,780,302	8.47	332,872,162	8.84	361,958,525	8.47
Crude materials, inedible	884,041,416	24.50	881,410,542	23.40	978,646,669	22.91
Pulpwood & pulpwood chips	24,346,408	.68	26,717,073	.71	23,225,176	.54
Multilaminated newsprint	1,553,162	.04	2,008,150	.05	2,318,890	.05
Waste paper, n.o.p.	1,595,692	.05	1,799,357	.05	2,097,160	.05
Fabricated materials, inedible	1,968,045,744	54.54	2,069,228,371	54.94	2,237,248,705	52.38
Wood-pulp	298,166,025	6.26	309,915,338	8.23	346,016,962	8.10
Newsprint	633,037,421	17.54	636,086,302	16.89	689,405,679	16.14
Paperboard & building board	4,140,681	.12	4,997,144	.13	5,777,763	.14
All other paper	9,383,647	.26	10,984,840	.29	14,309,897	.34
End products, inedible	375,905,186	10.42	425,435,529	11.29	642,974,538	15.06
Paper products	485,092	.01	621,548	.02	739,811	.02
Special transactions — Trade	10,243,388	.28	19,130,234	.51	20,116,099	.48
Total exports	\$3,608,438,506	100.00	\$3,766,389,007	100.00	\$4,271,059,087	100.00
Pulp, Paper, Paper Products and Pulpwood(a)	\$ 972,710,128	26.96	\$ 993,129,752	26.37	\$1,083,891,338	25.38

(a) Details for 1964 are given in Table 17 according to the Export Classification in effect prior to 1961.

Source: Dominion Bureau of Statistics.

Table 72.

Principal Statistics by Provinces 1963

Provinces	Mills No.	Employees (a) No.	Salaries and Wages \$ (a)	Cost of Fuel and Electricity \$	Cost of Materials Used \$	Selling Value of Factory Shipments \$	Value Added by Manufacture \$
Newfoundland	2	2,988	18,014,831	5,270,524	27,876,217	70,436,112	36,502,407
Nova Scotia	4	1,591	7,535,881	1,984,145	15,026,919	34,506,763	17,111,565
New Brunswick	8	4,143	21,382,383	10,151,670	55,249,196	113,306,134	47,921,447
Quebec	53	25,780	144,515,731	51,073,101	281,681,220	665,918,452	334,336,162
Ontario	38	20,109	111,643,723	35,462,731	227,941,191	523,477,744	259,112,319
Manitoba, Saskatchewan and Alberta	7	1,748	8,458,734	3,126,170	17,852,731	49,333,308	28,138,050
British Columbia	14	9,205	54,873,075	19,057,767	124,560,715	336,252,554	191,135,936
	126	65,564	366,424,358	126,126,108	750,188,189	1,793,231,067	914,257,886

(a) Woods workers not included.

Source: Dominion Bureau of Statistics.

Table 73.

Ten Leading Canadian Manufacturing Industries 1962*

	Selling Value of Factory Shipments '000 \$ Rank(a)	Value Added by Manufacture '000 \$ Rank(b)	Salaries and Wages '000 \$ Rank(b)	Employment No. Rank(b)
Pulp and paper mills	1,716,300 1	880,260 1	355,245 1	64,885 1
Smelting and refining	1,549,049 2	587,379 2	159,439 6	29,303 5
Petroleum refining	1,253,068 3	264,146 8	62,808 9	10,184 10
Motor vehicle manufacturers	1,179,982 4	383,740 4	166,918 3	27,001 6
Slaughtering and meat packing plants	1,142,015 5	196,821 9	119,987 7	25,823 7
Iron and steel mills	860,755 6	445,501 3	209,171 2	36,593 3
Sawmills (except shingle mills)	612,144 7	273,602 6	161,888 5	42,938 2
Manufacturers of industrial chemicals	517,199 8	280,908 5	94,384 8	16,508 8
Miscellaneous machinery and equipment manufacturers	486,142 9	270,829 7	164,272 4	33,827 4
Miscellaneous food manufacturers	448,713 10	170,535 10	52,493 10	12,337 9

* Latest available.

a: Rank in Canadian Manufacturing Industries as a whole.

b: Rank among ten leading industries listed.

c: Covers only mill workers; the inclusion of the men permanently employed in the woods places pulp and paper further ahead.

Source: Dominion Bureau of Statistics.

Table 74.

Growth Rates of the Pulp and Paper Industry,
the Total Economy and Selected Groups of Industries

	Gross Do- mestic Product	Total Goods	Total Manu- factur- ing	Pulp and Paper	Foods and Bever- ages	Textiles	Iron and Steel Products	Transpor- tation Equip- ment	Chemicals & Allied Products	Electrical Apparatus & Supplies	Non-fer- rous Metal Products	Con- struc- tion	Total Services
1949 weights	100.000	53.080	27.340	2.108	3.814	1.623	4.026	2.651	1.359	1.418	1.601	6.379	46.920
1935	49.7	49.2	39.0	43.6	44.5	49.7	29.2	34.2	31.4	22.9	40.1	33.5	50.2
1936	52.4	51.9	43.0	47.4	49.8	55.5	33.8	35.5	33.7	25.0	46.7	37.5	52.9
1937	56.7	58.1	49.2	54.0	53.1	59.8	42.9	43.4	39.3	32.5	54.4	44.7	55.5
1938	56.5	58.0	45.3	41.2	53.1	48.1	36.6	38.1	37.9	28.0	55.8	42.2	55.2
1939	60.2	63.3	48.7	47.6	56.3	59.5	39.1	37.7	40.7	28.4	58.4	43.4	57.3
1940	69.2	72.5	60.4	58.1	62.4	81.1	58.9	61.1	49.8	41.9	70.5	49.1	66.2
1941	80.6	83.7	78.7	63.5	72.3	91.7	86.4	106.1	77.2	61.8	98.9	63.6	77.9
1942	95.0	102.1	96.1	62.1	77.6	102.0	114.7	157.1	126.5	74.9	130.4	67.9	88.5
1943	99.0	99.0	104.0	59.5	80.8	93.8	131.6	198.4	135.1	85.0	145.6	65.6	99.2
1944	103.0	101.4	106.1	63.1	89.5	87.9	118.4	235.7	142.8	85.5	130.9	53.5	104.7
1945	97.0	89.5	92.9	67.7	91.7	87.5	96.3	157.0	107.1	70.7	98.8	54.9	104.3
1946	89.8	88.2	85.2	80.5	98.0	88.7	80.8	80.6	87.0	67.7	81.8	68.4	91.6
1947	93.8	93.4	93.2	89.1	97.2	94.0	93.6	95.3	90.8	89.6	89.2	79.7	94.2
1948	97.1	98.3	97.3	95.1	98.5	97.3	101.5	97.2	95.7	91.5	99.2	89.2	95.8
1949	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1950	106.4	107.4	106.2	108.4	103.8	112.5	102.5	108.3	107.7	112.5	104.0	106.7	105.2
1951	114.6	117.7	115.0	117.5	106.8	113.1	117.0	131.3	120.0	120.7	114.1	110.6	111.1
1952	122.7	127.0	118.5	113.5	113.5	102.9	118.9	149.1	122.3	124.5	112.2	123.2	117.8
1953	126.7	130.3	126.4	117.4	117.4	107.9	115.3	165.2	139.9	150.9	120.1	130.1	122.7
1954	123.9	123.5	122.9	124.0	120.6	94.3	106.2	137.3	152.1	151.7	117.0	129.8	124.3
1955	136.3	139.2	134.7	131.1	126.8	114.0	123.8	145.1	165.5	176.2	127.5	139.8	132.9
1956	147.7	152.5	145.1	137.4	133.1	117.3	145.3	157.9	174.8	191.3	133.0	165.7	142.3
1957	147.0	148.3	142.9	133.6	135.6	117.6	139.6	151.2	183.4	183.6	127.6	174.7	145.6
1958	148.9	149.1	140.7	131.5	141.9	109.9	128.3	132.5	198.0	176.2	126.7	178.4	148.7
1959	156.5	155.9	149.8	141.8	147.6	124.4	147.2	131.5	208.4	184.8	134.7	170.7	157.1
1960	158.5	156.7	149.3	148.2	150.2	122.5	137.3	130.0	219.7	180.2	148.3	163.0	160.5
1961	161.4	157.9	153.0	153.1	154.2	134.6	139.4	129.8	222.1	182.6	147.6	168.4	165.3
1962	171.4	170.6	164.9	158.6	158.9	146.6	152.1	156.7	233.2	212.9	148.9	171.0	172.4
1963	180.2	180.0	173.9	163.8	162.1	159.5	161.8	181.4	249.1	223.5	148.8	173.6	180.4
1964	190.8	191.6	188.2	180.0	174.1	172.2	182.4	198.5	279.0	239.2	162.0	190.4	189.9

n.a.: not available.

Source: Dominion Bureau of Statistics. Compiled from "Indexes of Real Domestic Product by Industry of Origin, 1935-61" and "Revised Index of Industrial Production, 1935-57" and supplements prepared in National Accounts and Balance of Payments Division, Industrial Output Section.

Table 75.

Employees and Wages

	Total Employees	Employees On Salary	Total Salaries Paid	Average Salary	Employees on Wages	Total Wages Paid	Average Wage	Wage Index (a)	Consumer Price Index (b)	Total Salaries & Wages
1920	31,298	2,669	\$ 6,536,579	\$2,449	28,629	\$ 38,717,314	\$1,352	47.4	90.5	\$ 45,253,893
1925	28,031	2,971	6,816,191	2,294	25,060	31,744,714	1,267	44.4	74.6	38,560,905
1930	33,207	3,532	9,538,588	2,701	29,675	36,236,388	1,221	42.8	75.3	45,774,976
1935	27,836	3,290	7,827,961	2,379	24,546	28,065,352	1,143	40.1	59.9	35,893,313
1936	29,478	3,372	7,927,690	2,351	26,106	31,512,384	1,207	42.3	61.1	39,440,074
1937	33,205	4,044	9,561,449	2,364	29,161	39,196,346	1,344	47.1	63.0	48,757,795
1938	30,943	4,263	10,823,536	2,539	26,680	31,795,775	1,192	41.8	63.7	42,619,311
1939	31,016	4,382	10,875,243	2,482	26,634	33,862,136	1,271	44.6	63.2	44,737,379
1940	34,719	4,630	11,693,329	2,526	30,089	44,380,483	1,475	51.7	65.7	56,073,812
1941	37,154	4,970	12,924,964	2,601	32,184	50,752,854	1,577	55.3	69.6	63,677,818
1942	38,002	5,071	13,618,478	2,686	32,931	56,037,915	1,702	59.7	72.9	69,656,393
1943	37,020	5,384	14,663,655	2,724	31,636	56,535,767	1,787	62.7	74.2	71,199,422
1944	37,896	5,488	15,617,507	2,846	32,408	60,215,901	1,858	65.1	74.6	75,833,408
1945	39,996	5,981	16,766,154	2,803	34,015	63,696,490	1,873	65.7	75.0	80,462,644
1946	44,967	6,910	20,959,990	3,033	38,057	80,404,646	2,113	74.1	77.5	101,364,636
1947	49,946	7,706	26,286,577	3,411	42,240	103,191,418	2,443	85.7	84.8	129,477,995
1948	51,924	8,066	30,459,864	3,776	43,858	121,202,897	2,764	96.9	97.0	151,662,761
1949	52,050	8,243	32,784,295	3,977	43,807	124,919,573	2,852	100.0	100.0	157,703,868
1950	52,343	8,578	35,729,300	4,165	43,765	133,517,231	3,051	107.0	102.9	169,246,531
1951	57,291	9,413	44,126,918	4,688	47,878	169,042,988	3,531	123.8	113.7	213,169,906
1952	57,803	9,493	48,119,514	5,069	48,310	177,233,813	3,669	128.6	116.5	225,353,327
1953	58,194	9,394	49,932,103	5,315	48,800	185,809,557	3,808	133.5	115.5	235,741,660
1954	60,837	9,689	53,304,859	5,502	51,148	199,293,524	3,896	136.6	116.2	252,598,383
1955	62,205	9,933	55,980,812	5,636	52,272	209,317,307	4,004	140.4	116.4	265,298,119
1956	65,985	10,867	64,075,889	5,896	55,118	233,496,055	4,236	148.5	118.1	297,571,944
1957c	66,067	11,503	70,408,000	6,121	54,564	237,582,000	4,354	152.7	121.9	307,990,000
1958c	64,199	11,602	74,301,000	6,404	52,597	233,571,000	4,441	155.7	125.1	307,872,000
1959c	65,162	11,711	77,560,000	6,623	53,451	245,376,000	4,591	161.0	126.5	322,936,000
1960c	65,772	12,459	84,894,000	6,814	53,313	260,199,000	4,881	171.1	128.0	345,093,000
1961c	65,799	12,371	83,936,000	6,785	53,428	271,235,000	5,077	178.0	129.2	355,171,000
1962c	64,885	11,140	73,387,000	6,588	53,745	281,858,000	5,244	183.0	130.7	355,245,000
1963c	65,564	11,582	76,317,015	6,589	53,982	290,107,343	5,374	188.4	133.0	366,424,000

NOTE: Woods labour not included.

a: Canadian Pulp and Paper Association figures based on: 100 equals 1949 average wage. Consumer price index: 100 equals 1949.

b: Constructed to replace Cost of Living Index.

c: See notes 1 and 2, Table 86.

Source: Dominion Bureau of Statistics.

Table 76. Capital, Employees, and Wages

	Capital Employed (b)	Number of Employees (a)	Capital Employed per employee	Total Salaries & Wages (a)
1920	\$ 347,553,333	31,298	\$11,105	\$45,253,893
1925	460,397,772	28,031	16,425	38,560,905
1930	703,937,104	33,207	21,198	45,774,976
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	44,737,379
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
1944	1,064,240,000	37,896	28,083	75,833,408
1945	1,169,743,000	39,996	29,246	80,462,644
1946	1,241,930,000	44,967	27,619	101,364,636
1947	1,358,133,000	49,946	27,192	129,477,995
1948	1,412,186,000	51,924	27,197	151,662,761
1949	1,449,289,000	52,050	27,844	157,703,868
1950	1,576,022,000	52,343	30,110	169,246,531
1951	1,836,460,000	57,291	32,055	213,169,906
1952	1,872,114,000	57,803	32,388	225,353,327
1953	2,110,262,000	58,194	36,263	235,741,660
1954	2,590,923,000	60,837	42,588	252,598,383
1955	2,684,000,000	62,205	43,147	265,298,119
1956	3,021,600,000	65,985	45,792	297,571,944
1957c	3,233,800,000	66,067	48,947	307,990,000
1958c	3,362,700,000	64,199	52,379	307,872,000
1959c	3,548,400,000	65,162	54,455	322,936,000
1960c	3,733,400,000	65,772	56,763	345,093,000
1961c	3,960,000,000	65,799	60,182	355,171,000
1962c	4,039,900,000	64,885	62,278	355,245,000
1963c	4,221,500,000	65,564	64,387	366,424,358

a: Woods labour is not included.

b: Figures on capital employed were compiled by the Dominion Bureau of Statistics from 1920 to 1943. Those for 1944 on are taken from "Taxation Statistics", published by the Department of National Revenue. The two series are not exactly comparable. The former excludes the value of inactive mills, timber limits, power developments, and investments, in wholly or partly owned subsidiaries and other enterprises. The latter includes such assets but does not cover pulp and paper mills operated by companies classed in other industries according to their principal or end product such as lumber, paper boxes, and roofing paper. For the years 1944-47 the figures cover only "profit" companies; since 1948 they cover both "profit" and "loss" companies. In 1962, the 68 pulp and paper companies covered had total assets of \$4,039,900,000 and current liabilities of \$513,400,000.

c: See notes 1 and 2, Table 86.

e: Canadian Pulp and Paper Association estimate.

Sources: Dominion Bureau of Statistics and Department of National Revenue.

Table 77.

Estimated Wages Paid and Numbers Employed in 1963

Wages	
Mill Workers	\$366,424,358
Woods Workers*	230,000,000
	\$596,424,358
Workers	
Seasonal woods workers on manufacturers' limits east of the Rockies	94,000
Permanent woods workers on manufacturers' limits east of the Rockies	4,000
Woods workers in B.C., mostly permanent	8,800
Woods workers cutting wood for sale to manufacturers	92,000
	198,800
Mill Workers, permanent	65,564
	264,364

*Includes an estimated \$83,000,000 to the 92,000 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 estimate.

Table 78. Principal Expenditures 1963

Transportation(e)	\$ 270,000,000
Chemical & mill supplies*	228,174,240
Fuel*	65,079,186
Electricity*	61,046,922
Fibre and fibre stock*	19,138,753
Purchased pulpwood**	41,000,000
Purchased wood-residue (for pulping)*	53,287,998
Food(e)	16,400,000
Taxes(e)	242,000,000
Paid for work done on materials supplied*	2,452,352
Wages, including woods workers**	596,424,358
	\$1,595,003,809

e: Canadian Pulp and Paper Association estimate.

* Dominion Bureau of Statistics figures.

** Expenditures for purchased pulpwood in 1963 totalled \$124,000,000 from which has been deducted \$83,000,000 covering the estimated wages paid in harvesting this wood. The latter figure is included in the \$596,424,358 shown as wages. See also Table 77.

† There is some duplication where the value of purchased pulpwood, mill supplies, fuel, chemicals, and so forth, include substantial transportation costs to the mill.

Table 79. Car Loadings

	1963 Carloads	%	1964 Carloads	%
Forest Products				
Pulp and paper	245,855	6.77	260,906	6.64
Pulpwood	119,020	3.27	127,185	3.24
	364,875	10.04	388,091	9.88
Other forest products	295,527	8.14	306,666	7.80
	660,402	18.18	694,757	17.68
Agricultural Products				
Grain	376,917	10.38	450,028	11.45
Grain products	94,860	2.61	104,314	2.66
Other agricultural products	64,993	1.79	66,360	1.69
	536,770	14.78	620,702	15.80
Animal Products	54,256	1.49	56,654	1.44
Mineral Products				
Coal	149,462	4.11	145,200	3.70
Coke	20,168	.56	22,984	.59
Ores and concentrates	458,929	12.63	553,072	14.08
Iron and steel: pig, bloom and ingot	10,064	.28	13,829	.35
Non-ferrous metals: pig, matte, ingot & manufactured products	39,871	1.10	39,275	1.00
Agricultural implements, tractors, automobiles, trucks and parts	68,455	1.88	71,649	1.82
Machinery, boilers, castings and other iron and steel products	70,597	1.94	83,590	2.13
Crude petroleum, gasoline, fuel oil and other petroleum products	274,787	7.57	271,682	6.91
Sand, gravel, stone, cement, plaster, lime, brick, tile, sewer and drain pipes, and other mineral products	358,918	9.88	385,328	9.81
	1,451,251	39.95	1,586,609	40.39
Other Products				
Sugar, canned goods, beverages	68,634	1.89	69,265	1.76
Fertilizers	59,440	1.64	65,848	1.68
Miscellaneous	495,182	13.63	543,490	13.83
	623,256	17.16	678,603	17.27
Merchandise, L.C.L.	306,645	8.44	291,558	7.42
Grand Total	3,632,580	100.00	5,928,883	100.00

Note: Car loadings of pulp and paper and pulpwood in 1964 were equivalent to 738 cars and 348 cars respectively, every day in the year. A proportion of the pulpwood car loading included pulpwood for export. Deducting an estimate for pulpwood shipped abroad, the pulp and paper industry's car loadings of pulpwood and finished products were equivalent to over eight trains of 100 cars daily. Annual loadings of pulpwood for the mills and of finished products would thus fill a train 2,430 miles in length. In addition, the pulp and paper industry creates a vast rail traffic of coal, chemicals and other supplies required for the operations at the mills and in the woods.

Source: Compiled by C.P.P.A. from monthly D.B.S. Memoranda.

Table 80. Power Utilization

in 000's of kwh including off-peak power		
Supply of electric energy:	1961	1962p
Generated by Utilities	89,388,635	92,096,096
Generated by Industries:		
Pulp and Paper industry	5,628,145e	5,244,780e
Other industries	18,696,538e	20,127,872e
Imported from United States	1,394,014	2,778,709
Total Supply	115,107,332	120,247,547
Less:		
Exports to United States	4,157,531	4,112,411
Line losses, free service and unaccounted for	10,523,046	8,679,891
Consumed in Canada	100,426,755	107,455,155
Consumption:		
Pulp and Paper industry	20,821,382	22,155,192e
Other manufacturing industries	38,707,500	41,187,187e
Mining companies	4,825,625	5,134,765e
Commercial customers	13,595,898	14,466,880
Residential and farm	21,975,672	23,692,010
Street lighting	726,813	819,121
Residual error of estimate	-226,085	n.a.

e: Canadian Pulp and Paper Association estimate.

p: Preliminary.

Note: The power consumption of the pulp and paper mills accounts for about 35 per cent of all the power generated for the manufacturing industries. These mills also produce over 20 per cent of the power generated by industry (including mining) and account for about 20 per cent of the total consumption of electricity in Canada.

Source: Dominion Bureau of Statistics.

Table 81. Operations and Mills 1963

	Number of Producing Companies Mills	
Groundwood, bleached	6	7
Groundwood, unbleached	36	62
Mechanical screenings	9	11
Soda pulp	1	1
Dissolving and Special Alpha (Sulphite and Sulphate)	4	6
Dissolving and Special Alpha screenings	1	1
Bleached sulphite (paper pulp)	12	17
Unbleached sulphite (strong)	9	11
Unbleached sulphite (news grade)	17	31
Sulphite screenings	11	17
Sulphate pulp, bleached (paper pulp)	17	18
Sulphate pulp, semi-bleached	10	12
Sulphate pulp, unbleached	12	17
Sulphate screenings	4	4
Semi-chemical pulp	4	5
Defibrated and exploded pulps	6	10
All other wood pulp	2	2
Newsprint	19	40
Groundwood printing and specialty papers	7	9
Book paper	7	15
Fine papers	8	14
Miscellaneous fine papers	8	13
Tissue paper other than sanitary	7	9
Sanitary paper	8	12
Special industrial papers	1	5
Wrapping papers	11	16
Building papers	9	12
Paperboard	23	46
Building boards	8	14
Wet machine boards	2	2
Paper products	10	20

Source: Dominion Bureau of Statistics.

Table 82

Canadian Consumption of Paper and Paperboard

	Pounds per capita									
	News- print	Paper- board	Wrapping Paper	Fine Paper(a)	Tissue Paper	Sanitary Paper	Building Boards	Building Papers	Other Paper & Boards	Total
1930	40.0	46.5	14.1	19.1	1.3	1.2	2.5	5.2	2.0	131.8
1935	43.1	43.5	13.9	16.8	.8	2.6	3.9	3.7	1.8	130.1
1940	26.5	57.8	17.8	22.5	1.4	5.6	11.5	4.6	1.6	149.3
1941	28.9	66.0	22.4	25.1	1.5	5.9	15.2	4.2	1.2	170.5
1942	29.0	70.1	23.1	27.1	1.6	6.3	17.4	5.9	1.4	181.9
1943	23.7	64.0	21.2	26.2	1.4	7.2	19.6	5.8	1.4	170.4
1944	30.4	77.3	22.3	22.5	1.6	7.1	6.8	8.5	1.2	177.7
1945	39.8	77.7	22.5	23.7	2.2	6.9	6.8	10.4	1.3	191.3
1946	42.0	88.5	25.6	27.4	3.2	6.6	9.8	12.2	1.8	217.2
1947	35.4	92.4	27.5	29.1	2.1	8.9	13.4	12.8	1.8	223.5
1948	50.3	94.8	29.1	27.9	1.8	8.7	15.8	13.1	1.7	243.3
1949	51.7	93.6	27.2	27.2	1.9	8.9	19.5	12.3	2.7	245.0
1950	47.0	105.2	31.3	29.7	2.1	9.7	15.1	13.3	3.4	256.7
1951	53.2	112.5	34.8	32.2	2.2	10.7	16.9	12.4	3.6	278.6
1952	53.9	100.3	29.1	27.1	1.6	9.5	16.0	11.7	3.0	252.2
1953	52.1	112.1	31.1	29.2	1.7	10.6	18.4	12.4	3.1	270.6
1954	56.9	107.7	31.5	30.4	1.8	11.2	18.3	11.6	2.8	272.2
1955	49.1	112.2	31.8	31.0	2.4	11.7	17.0	12.9	2.9	271.0
1956	61.8	121.6	34.5	34.3	2.7	12.9	22.5	12.1	2.9	305.3
1957	59.0	112.7	31.8	33.1	2.5	13.1	20.5	10.4	2.7	285.7
1958	57.1	119.2	31.6	32.9	2.5	13.7	23.7	11.0	2.3	293.9
1959	50.6	121.0	33.6	35.3	2.9	14.1	24.0	10.0	2.4	293.8
1960	53.1	117.2	32.8	34.9	2.5	14.0	24.3	8.6	2.2	289.8
1961	57.1	115.6	31.8	35.2	2.3	15.2	24.4	8.2	2.4	292.1
1962	55.8	122.5	32.1	35.9	2.5	15.4	22.4	9.5	2.7	298.8
1963	55.9	127.1	33.6	36.4	2.6	18.2	21.9	9.9	2.7	308.1
1964e	56.5	135.1	35.2	39.4	2.6	18.7	21.4	8.9	1.9	319.7

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

a: Excluding coated paper.

e: Estimated by Canadian Pulp and Paper Association.

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

Table 83.

Payrolls and Weekly Earnings
in Important Industries
1963

Industry	Average Number of Employees	Average Weekly Payrolls	Average Weekly Earnings
Pulp & Paper	67,500	\$7,359,514	\$109.03
Electrical apparatus	85,085	7,755,560	91.15
Automobiles, parts & accessories	57,613	6,410,868	111.27
Chemical products**	56,534	5,744,448	101.61
Non-ferrous metal products*	54,130	5,275,949	97.47
Primary iron & steel	39,247	4,490,813	114.42
Meat products	30,414	2,589,429	85.14
Aircraft & parts	26,735	2,733,654	102.25
Shipbuilding & repairing	22,477	2,056,396	91.49
Rubber products	21,922	1,939,427	88.47

Note: Compiled from monthly returns received from establishments employing 15 persons or more. 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 84.

Principal Statistics of the
Paper Converting Industries

	1961	1962
Number of establishments	442	455
Number of employees	30,320	31,369
Salaries and wages paid	\$124,453,417	\$133,282,188
Cost of fuel and electricity	5,187,670	5,525,858
Cost of materials used	340,152,565	364,200,717
Selling value of factory shipments	570,683,390	617,278,557
Value added by manufacture	229,651,066	250,392,054

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

c: See note 1, Table 86.

Source: Dominion Bureau of Statistics.

Table 85.

Imports of Wood-Pulp and Paper and Paper Goods

	Tons	Wood-pulp Value	Paper and Paper Goods (a)
1915	a	\$ 423,331	\$ 2,402,507
1920	21,142	1,940,461	14,059,046
1925	23,423	1,274,542	9,142,177
1930	18,526	826,862	12,907,658
1935	16,378	534,358	5,828,073
1936	19,201	617,599	6,706,408
1937	21,054	695,819	7,981,545
1938	16,979	561,474	7,520,328
1939	21,544	763,141	8,653,987
1940	19,996	814,387	8,858,180
1941	20,653	1,069,953	9,341,390
1942	21,450	1,298,521	10,675,315
1943	21,662	1,452,133	10,701,736
1944	13,747	1,100,412	12,156,601
1945	14,510	1,166,078	13,376,067
1946	14,471	1,290,956	18,834,089
1947	28,326	3,068,086	23,027,200
1948	33,004	3,799,597	17,212,565
1949	35,432	3,963,086	20,207,068
1950	36,583	3,692,274	23,433,530
1951	36,416	4,546,204	34,831,145
1952	54,589	5,499,093	29,920,960
1953	43,384	5,099,802	39,208,074
1954	51,691	5,849,899	43,558,314
1955	59,636	6,996,204	52,690,400
1956	63,904	8,117,220	62,217,354
1957	64,884	8,345,109	62,248,666
1958	53,769	7,345,662	65,735,027
1959	65,308	8,967,213	68,273,462
1960	63,904	8,657,407	68,910,036
1961	61,748	8,404,315	75,717,189
1962	63,328	8,961,603	80,379,275
1963	74,208	10,264,227	76,644,724
1964b	75,213	10,440,115	79,254,976

a: Quantity not available.

b: Comparable items of new (1964) classification.

Source: Dominion Bureau of Statistics.

Table 86.

Gross Value of Canadian Production

	1961	1962		1961	1962
	'000 \$	'000 \$		'000 \$	'000 \$
PRIMARY PRODUCTION:					
Agriculture	3,723,018	4,431,516	Primary Metal Industries	2,791,151	2,969,096
Wheat	486,324	941,436	*Smelting and refining	1,478,848	1,549,049
All grains (including wheat)	916,411	1,547,301	Iron and steel mills	774,748	860,755
Forestry	3,174,742	3,400,754	Metal Fabricating Industries (ex. Machinery and Transportation Industries)	1,510,625	1,722,554
Operations in the woods	846,035	887,814	Metal stamping, pressing and coating industry	390,834	439,956
Fisheries	222,879	255,603	Fabricated structural metal industry	209,338	255,003
Trapping	11,704	10,360	Wire and wire products manufacturers	220,940	248,023
Mining	3,566,714	3,887,815	Machinery Industries	658,319	750,248
Mineral production	2,582,300	2,850,986	(ex. Electrical Machinery)	138,981	140,820
Electric power	865,070	913,257	Agricultural implement industry	407,438	486,142
Less Duplication (forest products on farms)	— 49,359	— 50,871	Miscellaneous machinery and equipment	1,845,785	2,343,690
Total, Primary Production	11,514,768	12,848,434	Transportation Equipment Industries	870,942	1,179,982
			Motor vehicle manufacturers	348,245	381,234
			Aircraft and parts manufacturers	352,613	436,260
			Motor vehicle parts and accessories manufacturers	138,129	172,496
			Shipbuilding and repair	1,207,485	1,389,382
SECONDARY PRODUCTION:					
Manufactures	24,310,184	26,712,995	Electrical Products Industries	218,951	256,124
Construction	6,974,379	7,296,039	Manufacturers of electrical industrial equipment	251,084	319,752
Less Duplication in Manufactures	— 4,134,062	— 4,437,789	Communications equipment manufacturers	206,212	215,837
Total, Secondary Production	27,150,501	29,571,245	Manufacturers of major appliances (elec. & non-elec.)	676,025	771,771
(See Notes below)			*Cement manufacturers	107,246	116,706
GRAND TOTAL	38,665,269	42,419,679	Ready-mix concrete manufacturers	106,399	133,282
			Concrete products manufacturers	111,836	129,792
			*Clay products manufacturers	35,219	37,054
			(from domestic clay)	12,989	14,503
			*Lime manufacturers	113,155	136,168
			Glass and glass products manufacturers	1,219,178	1,294,070
			Petroleum and Coal Products Industries	1,183,508	1,253,068
			Petroleum refining	1,435,752	1,543,593
			Chemical and Chemical Products Industries	478,690	517,199
			Manufacturers of industrial chemicals	152,228	160,462
			Paint and varnish manufacturers	172,615	179,057
			Manufacturers of soap and cleaning compounds	165,201	175,249
			Manufacturers of pharmaceuticals and medicines	111,345	128,584
			Plastic and synthetic resins	874,407	982,129
			Textile Industries	251,360	284,500
			Synthetic textile mills	236,215	260,252
			Cotton yarn and cloth mills	219,378	233,506
			Knitting Mills	802,719	860,477
			Clothing Industries	277,518	304,473
			Women's clothing factories	279,667	300,866
			Men's clothing factories	331,135	353,962
			Rubber Industries	180,248	186,683
			Rubber tire and tube manufacturers	291,161	309,178
			Leather Industries	173,124	183,203
			Shoe factories	334,983	346,570
			Tobacco products Industries	229,956	242,122
			Tobacco products manufacturers	600,467	667,462
			Miscellaneous Manufacturing Industries	128,365	138,443
			Instrument and related products manufacturers	108,992	128,947
			Plastic fabricators		
			Total	24,310,184	26,712,995

*Industries included in both primary and secondary production.

Notes:

1. All principal statistics of manufactures (i.e. number of establishments, number of employees, total salaries and wages paid, cost of fuel, electricity and materials used, selling value of factory shipments and value added by manufacture or net value) shown in this publication for the years 1957 to 1960 have been revised by the Dominion Bureau of Statistics on the basis of the new Standard Industrial Classification adopted as of 1st January 1960 and of the new Establishment (reporting unit) Concept adopted as of 1st January 1961. Because of these changes, principal statistics for years prior to 1957 are not fully comparable with those for the years that follow. However, the comparability of the detailed materials and products statistics (i.e. pulpwood consumption, wood-pulp production, consumption and shipments of paper and board) is not affected until 1960, when some establishments classed in other industries ceased to report separately their pulp and paper operations.

2. Since 1952, "value of factory shipments" has replaced "gross value of products" in all manufacturing industries except sawmills, aircraft and parts manufacturers, shipbuilding and repair, railway rolling stock industry, and fabricated structural metal industry; also pulp and paper mills and veneer and plywood mills until 1956. As inventories are relatively small in the industries for which factory shipments are used, the general comparability of the figures is not seriously affected.

3. The gross value of products or of factory shipments given above, is limited to the annual production of commodities, and is not comparable with "gross national product" given in Table 63, which includes transportation, communication, trade, finance, and service activities. The computation is entirely different and the "gross national product" comprises, in addition, depreciation allowances, other similar business costs, and indirect taxes less subsidies.

4. While the statistics of gross production are of interest, indicating the amount of revenue generated by the corporations and operators in the field, the total includes a large element of duplication: often the products of one industry become the materials of other industries. The net value of production obtained by deducting the cost of materials, fuel and electricity is a more accurate measure of the contribution to the national economy.

5. The value of agricultural production includes forest production on farmers' wood lots. As such products are also reported under forestry, the amount of duplication is deducted.

6. A survey of production must differentiate between the more important branches and at the same time present a grand total that will be free from overlapping. For example, the products of pulp and paper mills and veneer and plywood mills are included in forestry production as being the first finished products of commercial value resulting from the productive process. They may, however, be classified under manufactures in view of the nature of the production process. The production of such industries is regarded both as primary and secondary, but the duplication eliminated from the grand total.

Source: Dominion Bureau of Statistics.

“G”—WORLD FIGURES

Table 87. World Production of Wood-Pulp

	000's of short tons, air-dry weight			
	1937	1950	1960	1963
NORTH AMERICA	12,067	23,322	36,747	41,865
Canada	5,494	8,473	a11,431	a12,426
United States	6,573	14,849	a25,316	a29,439
WESTERN EUROPE	10,473	9,765	17,242	19,898
Austria	456	421	777	755
Belgium	40	86	170	173
Denmark	6	1	6	6
Finland	2,536	2,109	4,078	5,210
France	387	551	1,254	1,396
Germany (West)	1,276	1,008	1,584	1,511
Ireland	—	—	24	33
Italy	193	249	497	645
Netherlands	133	90	137	153
Norway	1,208	1,122	1,814	1,893
Portugal	5	7	94	115
Spain	11	28	166	360
Sweden	3,884	3,799	6,173	7,131
Switzerland	116	157	262	265
United Kingdom	222	137	206	252
LATIN AMERICA	30	264	845	1,159
Argentina	—	17e	48	109
Brazil	—	153e	498	639
Chile	9	17	112	167
Columbia	—	—	—	14
Mexico	21	77	187	230
Venezuela	—	—	—	—
AFRICA, MIDDLE EAST, OTHER ASIA, OCEANIA	996	1,004	4,863	6,494
Rep. of South Africa	—	36	262	528
Turkey	3	13	46	75
India	—	—	20	26
Japan	b993	825	3,884	5,045
Pakistan	—	—	26	31
Taiwan	—	—	16	19
Australia	—	103	315	356
New Zealand	—	27	294	414
TOTAL, NON-COMMUNIST COUNTRIES	23,566	34,355	59,697	69,416
TOTAL COMMUNIST COUNTRIES	3,223	3,696	6,930	6,944
Bulgaria	8	6	—	—
Czechoslovakia	379	386	—	—
Germany (East)	1,400e	607	—	—
Hungary	7	7	—	—
Poland	191	275	—	—
Rumania	62	110	—	—
U.S.S.R. (d)	1,139	2,255	—	—
Yugoslavia	37	50	230	313
TOTAL, WORLD	26,789	38,051	66,627	76,360

—: Nil.

a: Screenings included.

b: Japan includes Taiwan in 1937.

d: Includes Esthonia, Lithuania and Latvia for all years.

e: Estimated.

Sources: Canadian Pulp and Paper Association and United States Pulp Producers Association.

Table 88. World Consumption of Wood-Pulp

	000's of short tons, air-dry weight			
	1937	1950	1960	1963
NORTH AMERICA	13,286	23,801	35,473	39,953
Canada	4,641	6,663	8,918	9,161
United States	8,645	17,138	26,555	30,792
WESTERN EUROPE	9,257	8,808	17,481	20,277
Austria	255	301	585	618
Belgium	175	256	333	418
Denmark	61	82	123	126
Finland	916	945	2,329	3,133
France	1,113	1,082	1,981	2,339
Germany (West)	1,889	1,250	2,334	2,488
Greece	27	32	62	82
Ireland	10e	24	53	80
Italy	471	509	1,186	1,528
Netherlands	254	253	543	555
Norway	505	541	981	1,083
Portugal	18	20	102	91
Spain	46	91	280	545
Sweden	1,082	1,495	2,954	3,601
Switzerland	131	187	370	406
United Kingdom	2,304	1,740	3,265	3,184
LATIN AMERICA	247	582	1,178	1,498
Argentina	47	98	137	216
Brazil	110	298	605	691
Chile	26	42	127	158
Columbia	—	3	31	65
Mexico	61	133	241	286
Venezuela	3	8	37	82
AFRICA, MIDDLE EAST, OTHER ASIA, OCEANIA	1,596	1,141	5,167	7,167
Rep. of South Africa	1	38	190	342
United Arab Rep. — Egypt	—	6	32	53
Turkey	10	17	55	82
India	12	9	108	176
Japan	1,516	894	4,014	5,559
Pakistan	—	—	29	31
Taiwan	—	—	28	30
Australia	51	139	481	532
New Zealand	6	38	230	362
TOTAL, NON-COMMUNIST COUNTRIES	23,386	34,382	59,299	68,895
TOTAL COMMUNIST COUNTRIES (c)	2,451	3,910	6,763e	7,241
Bulgaria	20	45	—	—
China	18	25	—	—
Cuba	11	22	—	—
Czechoslovakia	239	342	—	—
Germany (East)	807e	596	—	—
Hungary	53	29	—	—
Poland	214	350	—	—
Rumania	54	98	—	—
U.S.S.R. (d)	983	2,348	—	—
Yugoslavia	52	55	216	285
TOTAL, WORLD	26,837	38,242	66,062	76,136

—: Nil.

a: Screenings included.

b: Japan includes Taiwan in 1937.

c: Does not include China for 1960 and 1963.

d: Includes Esthonia, Lithuania and Latvia for all years.

e: Estimated.

Sources: Canadian Pulp and Paper Association and United States Pulp Producers Association.

Table 89. World Production of Wood-Pulp, by Grades

	000's of short tons, air-dry weight			
	1937	1950	1960	1963
NON-COMMUNIST COUNTRIES:				
Dissolving & Special Alpha (Sulphite & Sulphate) . . .	n.a.	1,756	3,447	3,934
Sulphite — Paper Grades . . .	n.a.	7,737	10,340	10,661
Bleached		3,231	5,224	5,840
Unbleached		4,506	5,116	4,821
Sulphate — Paper Grades . . .	n.a.	10,642	23,566	29,959
Bleached & Semi-Bleached . .		2,583	9,567	13,137
Unbleached		8,059	13,999	16,822
Soda	n.a.	350e	609	592
Total, Chemical Wood-Pulp . .	14,144	20,797*	37,962	45,146
Semi-chemical Wood-Pulp . . .	n.a.	1,331e	2,736	3,719
Groundwood		11,108	16,248	17,522
Defibrated & Exploded		1,119	2,580	2,805
Total, Mechanical Wood-Pulp .	n.a.	12,227	18,828	20,327
Screenings	n.a.	n.a.	171	224
Total, Other Grades	9,422	13,558	21,735	24,270
Total, All Grades	23,566	34,355	59,697	69,416
COMMUNIST COUNTRIES:				
Total, Chemical Wood-Pulp . .	1,889	2,251	4,684	4,717
Total, Other Grades	1,334	1,445	2,246	2,227
Total, All Grades	3,223	3,696	6,930	6,944
WORLD:				
Total, Chemical Wood-Pulp . .	16,033	23,048	42,646	49,863
Total, Other Grades	10,756	15,003	23,981	26,497
Total, All Grades	26,789	38,051	66,627	76,360

n.a.: Not available.

e: Estimated.

*: The sum of the figures shown for 1950 for the various groups of chemical wood-pulp does not equal this total figure of 20,797,000 tons because some countries did not provide a breakdown of grades at that time.

Sources: Canadian Pulp and Paper Association and United States Pulp Producers Association.

Table 90. World Exports of Wood-Pulp, by Countries

	000's of short tons, air-dry weight			
	1937	1950	1960	1963
NORTH AMERICA				
Canada (a)	1,197	1,942	3,718	4,760
United States	874	1,846	2,576	3,338
	323	96	1,142	1,422
WESTERN EUROPE				
Austria	5,520	4,248	6,328	6,939
Belgium	205	115	224	175
Finland	26	4	7	4
France	1,620	1,142	1,749	2,077
Germany (West)	4	2	63	80
Italy	110	60	100	94
Netherlands	—	—	4	2
Norway	2	2	—	1
Portugal	723	602	881	865
Spain	—	n.a.	48	76
Sweden	—	n.a.	—	10
Switzerland	2,814	2,306	3,230	3,537
United Kingdom	8	15	22	18
	8	—	—	—
LATIN AMERICA				
Brazil	—	—	15	22
Chile	—	—	15	16
AFRICA, ASIA, OCEANIA				
Rep. of South Africa	—	1	183	286
Japan	—	—	82	209
Australia	—	—	22	4
New Zealand	—	1	78	71
TOTAL, NON-COMMUNIST COUNTRIES				
	6,717	6,191	10,244	12,007
TOTAL, COMMUNIST COUNTRIES				
Czechoslovakia	396	114	361	410
Germany (East)	150	39	49	35
Hungary	73	n.a.	n.a.	—
Rumania	—	—	—	1
Poland	8	n.a.	n.a.	42
U.S.S.R. (b)	3	n.a.	n.a.	—
Yugoslavia	161	75	269	270
	1	—	43	62
TOTAL, WORLD				
	7,113	6,305	10,605	12,417

... Negligible amount.

— Nil.

n.a.: Not available.

a: Includes Newfoundland for all years.

b: Includes Estonia, Lithuania and Latvia for all years.

Sources: Canadian Pulp and Paper Association and United States Pulp Producers Association for all years, except 1963 estimates for Communist Countries based on F.A.O. data.

Table 91. World Forest Resources

	Forested Area			Forests in Use		
	Total	Access- ible	Non- Access- ible	Coni- fers	Non- Coni- fers	Mixed Woods
	Thousand Square	Miles	Thousand Square	Miles	Thousand Square	Miles
WORLD	17,007	10,549	6,458	3,162	2,514	364
North America	2,832	1,546	1,286	725	392	273
Central America	286	210	76	12	29	...
South America	3,694	1,069	2,625	26	231	17
Europe	544	533	11	278	190	41
U.S.S.R.	4,367	4,367	—	1,953	505	—
Africa	2,907	1,468	1,439	6	397	4
Asia	2,007	1,258	749	146	712	27
Pacific Area	370	98	272	16	58	2
CANADA	1,613	721	892	396	83	155

...: Negligible amount.

—: Nil.

Source: FAO World Forest Inventory 1958.

Table 92. World Production of Newsprint

	1937 Tons	1950 Tons	1960 Tons	1963 Tons
NORTH AMERICA	4,943,663	6,293,288	8,777,033	8,848,527
Canada	3,997,942	5,278,585	6,738,611	6,630,483
United States	945,721	1,014,703	2,038,422	2,218,044
WESTERN EUROPE	3,337,120	2,532,522	4,132,736	4,530,058
Austria	63,000	78,500	151,637	151,281
Belgium & Luxembourg	59,375	68,000	104,384	107,800
Finland	448,829	459,826	744,301	1,008,602
France	447,100	327,200	485,000	492,000
Greece	—	—	1,000	—
Germany (West)	552,000	187,000	253,998	225,925
Ireland	—	—	5,000	11,000
Italy	66,120	94,800	324,669	400,000
Netherlands	106,389	95,000	160,373	164,813
Norway	225,832	175,235	247,000	300,063
Portugal	2,534	2,777	18,000	21,982
Spain	21,000	25,000	66,000	73,132
Sweden	309,965	357,904	641,274	707,560
Switzerland	33,000	52,000	99,000	113,000
United Kingdom	1,032,976	609,280	831,100	752,900
LATIN AMERICA	9,017	51,500	139,589	188,837
Argentina	—	1,000	10,000	10,000
Brazil	8,000	34,100	59,184	105,000
Chile	1,017	12,000	56,805	64,837
Mexico	—	—	13,000	9,000
Peru	—	4,400	—	—
AFRICA, NEAR EAST, OTHER ASIA, OCEANIA	413,000	191,081	1,113,345	1,623,219
Rep. of South Africa	—	—	—	43,649
Rhodesia	—	—	—	4,084
Israel	—	—	5,000	5,000
Turkey	—	5,000	11,210	21,496
Cambodia	—	—	—	500
India	—	—	25,310	33,470
Japan (b)	413,000	145,281	810,191	1,131,032
Korea (b)	—	2,000	29,665	46,014
Pakistan	—	—	23,938	35,177
Taiwan (b)	—	3,800	13,294	12,661
Australia	—	35,000	100,137	103,136
New Zealand	—	—	94,600	187,000
TOTAL, NON-COMMUNIST COUNTRIES	8,702,800	9,068,421	14,162,703	15,190,641
TOTAL, COMMUNIST COUNTRIES (estimates)	311,801	506,000	1,014,424	1,078,440
Bulgaria	1,000	—	—	—
China	—	39,000	220,000	120,000
Cuba	—	—	16,000	—
Czechoslovakia	54,000	34,000	37,159	46,340
Germany (East)	a	68,000	98,400	118,000
Hungary	4,250	10,000	—	—
Poland	38,500	65,000	85,000	84,000
Roumania	5,000	33,000	48,500	54,800
U.S.S.R. (c)	209,051	257,000	478,000	620,300
Yugoslavia	—	—	31,365	35,000
TOTAL, WORLD	9,014,601	9,574,421	15,177,127	16,269,081

NOTE: North American production was inflated in 1937 by tonnage bought and stored, mostly by U.S. publishers, in advance of a price increase effective January 1st 1938 but announced early in 1937.

...: Negligible amounts.

—: Nil.

a: Production in East Germany included with West Germany in 1937.

b: Production in Korea and Taiwan included with Japan in 1937.

c: Includes Estonia, Lithuania and Latvia for all years.

Source: Annual World Surveys compiled by the Newsprint Association of Canada.

Table 93. World Consumption of Newsprint

	1937 Tons	1950 Tons	1960 Tons	1963 Tons
NORTH AMERICA	4,502,619	6,284,938	7,866,580	7,990,775
Canada	220,200	354,602	487,102	522,718
United States (a)	4,282,419	5,930,336	7,379,478	7,468,057
WESTERN EUROPE	2,966,442	1,889,901	4,012,809	4,384,501
Austria	26,000	30,300	51,540	59,516
Belgium & Luxembourg	95,326	85,723	131,213	141,627
Denmark	56,084	60,022	97,972	123,397
Finland	30,084	39,951	87,093	89,386
France	455,200	312,400	548,000	569,000
Germany (West)	c404,716	229,700	588,007	678,665
Greece	8,090	16,033	23,910	36,915
Ireland	28,768	28,973	38,967	50,092
Italy	64,672	96,800	331,089	412,717
Netherlands	112,666	79,420	189,548	215,481
Norway	26,946	30,262	53,028	60,327
Portugal	13,009	12,413	25,813	28,289
Spain	26,500	27,665	74,200	106,132
Sweden	88,862	138,202	211,119	233,074
Switzerland	33,050	50,848	95,000	129,755
United Kingdom	1,496,035	650,019	1,464,012	1,447,049
Other countries (d)	434	1,170	2,298	3,079
LATIN AMERICA	358,773	381,718	692,263	701,758
Argentina	186,362	109,810	188,879	158,360
Brazil	73,633	96,311	204,184	195,000
Chile	17,326	33,000	29,511	30,951
Colombia	7,700	21,019	36,463	43,599
Mexico	33,251	43,598	109,685	110,000
Peru	7,223	13,500	19,933	34,162
Venezuela	3,638	11,601	25,923	36,919
Other countries (b)	29,640	52,879	77,685	92,767
AFRICA	75,395	74,063	151,966	162,520
Rep. of South Africa	41,550	42,745	84,361	90,810
United Arab Rep. —	—	—	—	—
Egypt	13,764	14,851	25,000	30,000
Other countries (e)	20,081	16,467	42,605	41,710
MIDDLE EAST	13,833	19,049	44,188	66,941
Turkey	9,879	11,725	23,030	40,366
Other countries (f)	3,954	7,324	21,158	26,575
OTHER ASIA	530,021	286,909	1,136,656	1,532,435
Hong Kong	g	8,265	22,342	33,312
India	h41,157	68,160	105,506	136,590
Japan	i445,123	138,636	803,639	1,124,589
Korea	g	8,000	47,020	49,474
Philippines	16,786	21,000	38,505	45,983
Thailand	1,000	2,500	19,740	29,328
Other countries (j)	25,955	40,348	99,904	113,159
OCEANIA	200,630	216,706	447,386	430,821
Australia	168,666	185,617	371,647	353,248
New Zealand	31,914	31,033	75,642	77,408
Other countries (k)	50	56	97	165
TOTAL, NON-COMMUNIST COUNTRIES	8,647,713	9,153,284	14,351,848	15,269,751
TOTAL COMMUNIST COUNTRIES (estimates)	467,981	561,019	934,582	1,042,001
China	g101,093	66,000	190,000	100,000
Czechoslovakia	42,979	22,000	30,933	35,450
Germany (East)	c	63,700	93,600	112,000
Hungary	24,850	20,152	23,714	33,011
Poland	38,500	65,000	59,600	58,400
Roumania	7,000	33,000	45,500	50,800
U.S.S.R. (k)	210,481	238,540	391,000	568,000
Yugoslavia	21,316	13,364	41,365	45,000
Other countries (l)	21,762	39,263	58,870	39,340
TOTAL, WORLD	9,115,694	9,714,303	15,286,430	16,311,752

a: Includes Alaska and Hawaii for all years.

b: Bahamas, Barbados, Bermuda, Bolivia, British Guiana, British Honduras, Costa Rica, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras, Jamaica, Netherlands Antilles, Nicaragua, Panama, Paraguay, Puerto Rico, Salvador, Surinam, Trinidad & Tobago, Uruguay and other West Indies.

c: Consumption in East Germany included with West Germany in 1937

d: Iceland and Malta.

e: Algeria, Congo, Ethiopia, Ghana, Kenya, Mauritius, Morocco, Nigeria, Portuguese Africa, Rhodesia and Nyasaland, Sierra Leone, Sudan, Tanganyika, Tunisia, Uganda, other Africa.

f: Cyprus, Iran, Iraq, Israel, Jordan, Lebanon, United Arab Republic — Syria.

g: Consumption in Hong Kong included with China in 1937.

h: Consumption in Pakistan included with India in 1937.

i: Consumption in Korea and Taiwan included with Japan in 1937.

j: Burma, Cambodia, Ceylon, Indonesia, Laos, Malaysia, Pakistan, Taiwan and Viet-Nam.

k: Includes Estonia, Lithuania and Latvia for all years.

l: Bulgaria and Cuba.

Source: Annual World Surveys compiled by the Newsprint Association of Canada.

Table 94. World Exports of Newsprint

	1937 Tons	1950 Tons	1960 Tons	1963 Tons
NORTH AMERICA	3,828,709	4,999,998	6,399,808	6,217,769
Canada	3,811,664	4,956,031	6,265,299	6,099,562
United States	17,045	43,967	134,509	118,207
WESTERN EUROPE	1,116,142	1,009,761	1,579,680	1,838,344
Austria	37,000	48,200	100,139	91,765
Belgium & Luxembourg	3,651	5,818	45,510	42,816
Finland	418,745	416,207	660,401	907,313
France	43,000	18,800	28,000	6,000
Germany (West)	a 116,284	—	61	3,645
Italy	3,454	6,800	9,266	2,586
Netherlands	10,472	24,555	46,802	49,939
Norway	193,886	147,546	192,000	232,569
Portugal	—	—	1,126	1,435
Sweden	221,103	225,998	435,854	474,490
Switzerland	50	1,566	4,200	—
United Kingdom	63,497	114,271	56,321	25,786
LATIN AMERICA	—	—	31,907	34,305
Argentina	—	—	—	419
Chile	—	—	31,907	33,886
ASIA	6,944	6,750	11,358	21,305
Japan	6,944	6,750	6,552	6,625
Pakistan	—	—	2,753	14,050
Taiwan	—	—	2,053	630
OCEANIA	—	—	55,379	119,226
Australia	—	—	36	582
New Zealand	—	—	55,343	118,644
TOTAL, NON-COMMUNIST COUNTRIES	4,951,795	6,016,509	8,078,132	8,230,949
TOTAL, COMMUNIST COUNTRIES (estimates)	16,499	37,800	185,359	191,180
China	—	—	30,000	20,000
Czechoslovakia	11,929	12,000	9,359	15,080
Germany (East)	a	4,300	13,800	10,000
Poland	1,000	3,000	25,400	25,600
Roumania	—	—	3,000	4,500
U.S.S.R. (c)	3,570	18,500	103,600	116,000
TOTAL, WORLD	4,968,294	6,054,309	8,263,491	8,422,129

—: Nil.

a: Exports from East Germany included with West Germany in 1937.

c: Includes Estonia, Lithuania and Latvia for all years.

Source: Annual World Surveys compiled by the Newsprint Association Canada.

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