



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 1961 figures as possible; but in many instances it has been impossible either to obtain the 1961 figures or to provide informed estimates. Particularly is this so of 1961 dollar value figures many of which will not be available from government sources until the end of 1962.

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 slightly more than one-fifth of all the electric power consumed in Canada.

In the field of foreign trade, the tables show that during 1961, pulp and paper exports amounted to \$1,151 million. This was equivalent to 20 per cent of all Canada's domestic exports, and to 29.4 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, June, 1962

"A"—FORESTS AND PULPWOOD

Table 1. Forest Extent — 1961

Total Land Area of Canada (excluding rivers and lakes)	Square Miles 3,560,238
NET AREA (excluding rivers and lakes)	
Forested Areas of Canada	1,712,867
All of which, save for 275,800 square miles, lies within the ten provinces.	
Forested Areas Classified as Unproductive	752,722
Small trees in adverse locations not expected to reach merchantable size.	
Productive Forest Areas	960,145
Potentially Accessible Productive Forests	242,328
Accessible Productive Forests	717,817
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 — 1961

In 000,000's of cubic feet of merchantable timber	
Accessible Forests:	
Conifers	474,097
Broad-leaved	114,036
Presently Inaccessible Forests:	
Conifers	119,040
Broad-leaved	13,501

Source: Department of Forestry.

Table 3. Forest Consumption

Average Annual Depletion 1950-1959			
Products Utilized:	000's of cu. ft.	% Utilized	% Depleted
Logs and bolts for domestic use	1,511,938	47.5	43.7
Logs and bolts for export	7,863	0.2	0.2
Pulpwood for domestic use	1,119,119	35.2	32.4
Pulpwood for export	160,186	5.0	4.6
Fuelwood and wood for charcoal	321,358	10.1	9.3
Poles and piling and round mining timber	43,447	1.4	1.3
Miscellaneous	18,318	0.6	0.5
	3,182,229	100.0	92.0
Wastage by Forest Fire*	275,005	8.0	
	3,457,234	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.

* Excludes Newfoundland.

Source: Department of Forestry.

Table 4. Forest Holdings — 1961

NET AREA (excluding rivers and lakes)		
Occupied Forest Lands:	Sq. Miles	Per Cent
Provincial Crown:		
Leases and licenses	188,355	19.6
Permits and sales	4,351	0.5
	192,706	20.1
Federal Crown:		
Leases and licenses	342	*
Other lands	5,039	0.5
	5,381	0.5
Privately-owned:		
Farm woodlots	35,092	3.7
Other private lands	52,039	5.4
	87,131	9.1
Total Occupied Forest Lands	285,218	29.7
Unoccupied Forest Lands:		
Provincial Crown	590,525	61.5
Federal Crown	84,402	8.8
Total Unoccupied Forest Lands	674,927	70.3
Total Productive Forest Lands	960,145	100.0

* Less than 0.05%.

Source: Department of Forestry.

Table 5. Coniferous Forest Volume — 1961

Estimated Stands of Accessible Conifers by Provinces		
	Millions of cubic feet	Pulpwood Production Cords — 1960p
Newfoundland	13,280	1,045,991
Prince Edward Island	96	43,859
Nova Scotia	6,469	262,772
New Brunswick	11,947	1,410,458
Quebec	42,021	6,623,071
Ontario	51,167	3,998,144
Manitoba	5,825	220,901
Saskatchewan	6,191	40,115
Alberta	29,199	382,344
British Columbia	301,874	2,509,837
Yukon Territory	2,568	nil
Northwest Territories	3,460	nil
	474,097	16,537,492

p: preliminary.

Sources: Department of Forestry and Dominion Bureau of Statistics.

Table 6. Depletion and Growth, 1961

Pulp and Paper Woodlands

The pulp and paper mills lease 182,840 square miles of forest, or slightly more than 117 million acres. Over the past five years, the wood taken by the mills from this acreage has averaged 8½ million cords a year. Such a cut runs to an average of 6¼ cubic feet per acre per year to which, in order to obtain the total depletion, must be added the losses caused by fire, insects, disease, and natural mortality.

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.

Source: Woodlands Section, Canadian Pulp and Paper Association.

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. Annual depletion on the accessible productive forests, for which it is possible to give a more accurate figure, averages about 8 cubic feet per acre, and includes cutting and losses from fire.

This is not the whole story. This seemingly favourable balance on a national scale is tempered by the following conditions:

1. The annual depletion caused by insects and disease, for which reliable estimates do not exist, is believed to exceed the losses from fire.
2. Regional examples of over-cutting in the more accessible areas indicate that control and adjustment is necessary to bring cut in line with growth potential.
3. Greater costs may be encountered in developing more remote supply areas.

Source: Department of Forestry.

Table 7. Pulpwood Production — Cords

(All quantities are given in terms of rough or unpeeled wood)

	Production(a)	Consumption(b)	Exports(c)	Imports(d)
1920 . . .	4,024,826	2,777,422	1,247,404	
1925 . . .	5,092,461	3,668,959	1,423,502	
1930 . . .	5,977,183	4,741,349	1,330,466	94,632
1931 . . .	5,199,914	4,148,279	1,123,330	71,695
1932 . . .	4,222,224	3,647,754	620,124	45,654
1933 . . .	4,746,383	4,044,876	718,556	17,049
1934 . . .	5,773,970	4,766,604	1,021,285	13,919
1935 . . .	6,095,016	5,005,083	1,109,873	19,940
1936 . . .	7,002,057	5,775,894	1,235,754	9,591
1937 . . .	8,298,165	6,613,639	1,705,031	20,505
1938 . . .	6,438,344	4,719,753	1,752,259	33,668
1939 . . .	6,899,986	5,386,240	1,539,440	25,694
1940 . . .	8,716,541	7,110,754	1,551,600	47,626
1941 . . .	8,396,953	7,740,525	1,856,414	81
1942 . . .	8,723,259	7,858,494	1,993,667	1,714
1943 . . .	8,987,188	7,426,345	1,545,986	2,379
1944 . . .	9,643,318	7,336,972	1,509,268	8,209
1945 . . .	10,973,094	7,659,899	1,684,421	4,133
1946 . . .	12,384,844	8,968,982	1,867,593	16,881
1947 . . .	13,657,129	9,751,586	2,001,477	50,508
1948 . . .	13,814,988	10,470,687	2,352,552	75,969
1949 . . .	10,308,776	10,470,481	1,644,253	5,491
1950 . . .	13,424,353	11,434,908	1,782,134	28,220
1951 . . .	18,156,282	12,634,426	2,893,615	46,634
1952 . . .	14,755,082	11,991,074	2,529,353	31,060
1953 . . .	13,545,176	12,109,658	1,783,657	48,805
1954 . . .	14,739,565	12,981,000	1,826,193	105,030
1955 . . .	16,087,953	13,629,413	1,882,784	134,917
1956 . . .	17,469,334r	14,031,855	1,953,470	188,144
1957 . . .	14,967,604r	13,367,088	1,800,411	179,614
1958 . . .	12,764,459	12,624,165	1,286,479	146,835
1959 . . .	14,357,039	13,555,051	1,107,484	147,766
1960 . . .	16,612,238	14,115,996	1,151,899	227,649
1961 . . .	14,530,170p	14,643,188p	1,061,048	206,726

a: 1920-39, production estimated on the basis of consumption plus exports minus imports; includes small quantities of sawmill chips, slabs and edgings, sawdust, butts and cores. 1940-57, revised data showing actual production; excludes wood-waste used for making pulp.

b: 1920-39, includes small quantities of wood-waste used for making pulp. 1940-57, excludes wood-waste consumption; includes recalculated volumes for B.C. consumption.

c: 1940-57, includes recalculated volumes for B.C. exports; peeled wood volume converted to rough cords.

d: Imports not reported prior to 1928. 1940-57, "Trade of Canada" data assumed to represent peeled wood and converted to rough cords.

p: Preliminary.

r: Revised.

Source: Dominion Bureau of Statistics.

Table 9. Wood Used by Pulp and Paper Mills — 1959*

	Per Cent
From farmers and other small holdings	21
Other purchases, including sawmill waste	18
Total purchased	39
Cut from owned or leased limits	61
	100

*Latest available.

Source: Dominion Bureau of Statistics.

Table 11. Species of Wood Used by Pulp and Paper Mills — 1960

Pulpwood:	Cords	Per Cent
Spruce and Balsam	10,475,587	65.9
Hemlock	1,422,571	9.0
Jack Pine	1,216,100	7.6
Other softwoods	138,891	0.9
Poplar, Aspen and Cottonwood	512,289	3.2
Other hardwoods	350,558	2.2
	14,115,996	88.8
Other Wood(*)	1,786,257	11.2
	15,902,253	100.0

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

Source: Dominion Bureau of Statistics.

Table 8. Pulpwood Production — Value

	Production(a)	Consumption(b)	Exports(c)	Imports(d)
1920 . . .	\$61,183,060	\$45,404,889	\$15,778,171	
1925 . . .	62,181,537	48,012,602	14,168,935	
1930 . . .	67,529,612	54,788,730	13,611,617	870,735
1931 . . .	51,973,243	43,120,740	9,359,592	507,089
1932 . . .	36,750,910	32,192,066	4,830,506	271,662
1933 . . .	33,213,973	28,609,247	4,696,459	91,733
1934 . . .	38,302,807	31,675,325	6,680,307	52,825
1935 . . .	41,195,871	34,265,329	7,041,052	110,510
1936 . . .	48,680,200	40,455,656	8,276,423	51,879
1937 . . .	63,057,205	51,081,661	12,088,329	112,785
1938 . . .	53,761,999	40,326,689	13,641,798	206,488
1939 . . .	58,302,668	46,558,645	11,901,480	157,457
1940 . . .	74,731,002	62,211,527	12,521,880	404,903
1941 . . .	74,878,637	72,023,560	15,928,826	325
1942 . . .	86,946,706	83,047,681	20,314,253	13,972
1943 . . .	104,183,817	91,982,248	18,565,265	28,747
1944 . . .	126,851,350	104,033,546	20,012,285	126,048
1945 . . .	159,450,381	121,947,288	23,881,928	57,074
1946 . . .	196,624,029	155,160,308	28,731,150	195,800
1947 . . .	249,911,951	203,738,527	34,528,884	557,731
1948 . . .	271,560,306	242,338,302	43,572,868	1,254,351
1949 . . .	202,544,308	240,379,337	30,383,947	65,304
1950 . . .	280,837,687	252,664,002	33,589,962	491,344
1951 . . .	416,196,281	316,600,016	66,077,108	756,278
1952 . . .	346,802,085	334,676,955	61,837,059	559,358
1953 . . .	309,011,150	329,087,065	42,703,886	878,687
1954 . . .	323,800,478	332,853,603	41,900,417	1,657,083
1955 . . .	369,476,288	340,076,962	43,273,977	2,060,005
1956 . . .	419,470,968	369,263,045	44,206,488	2,947,688
1957 . . .	340,235,102	361,151,710	42,331,768	2,858,726
1958 . . .	275,153,906	338,226,407	29,943,516	2,175,702
1959 . . .	320,244,307	349,827,131	25,705,661	2,711,234
1960 . . .	356,916,000	361,858,672	25,839,709	3,770,182
1961 . . .	n.a.	n.a.	27,156,575	3,562,891

n.a.: Not available.

Other footnotes: See Table 7.

Source: Dominion Bureau of Statistics.

Table 10. Sources of Supply of Pulpwood, 1959**

Provinces and Sources	Proportion	Average value per cord
Quebec	100.00	\$27.44
Purchased	29.87	
From own or leased limits	70.13	
Ontario	100.00	29.50
Purchased	33.74	
From own or leased limits	66.26	
British Columbia	100.00	16.41
Purchased	48.81	
From own or leased limits	51.19	
Other Provinces*	100.00	24.68
Purchased	25.06	
From own or leased limits	74.94	
Canada	100.00	25.85
Purchased	32.81	
From own or leased limits	67.19	

* Newfoundland, Nova Scotia, New Brunswick, Manitoba and Alberta.

** Latest available

Source: Dominion Bureau of Statistics.

Table 12. Cords, Cubic Feet, and Board Measure

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

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

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

Source: Department of Forestry.

"B"—FROM WOOD TO MARKETS

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

Table 13. Pulpwood Supply, 1960

	Cords(a)	Value
Pulpwood Production*, by Provinces:		
Quebec	5,994,740	\$164,516,004
Ontario	3,849,337	110,676,583
British Columbia	2,163,560	36,339,131
Other Provinces	3,032,611	72,396,481
Canada	15,040,248	\$383,928,199
Pulpwood Imports	227,649	3,770,182
Total Supply	15,267,897	\$387,698,381
Less Pulpwood Exports	1,151,901	25,839,709
Pulpwood Used	14,115,996	\$361,858,672
Other Wood Used (b)	1,786,257	31,091,512
Total Wood Used in Mills	15,902,253	\$392,950,184

* Apparent production, roundwood only, i.e. whole logs and bolts. For actual production, see Table 7.

(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) Residual wood, such as sawmill and veneer mill chips, slabs and edgings, sawdust and butts and cores.

Source: Dominion Bureau of Statistics.

Table 14. Pulp Supply, 1960

From the 15,902,253 cords of wood used in the mills, the following pulps were manufactured in 1960:

	Tons	Value
Groundwood pulp	5,880,529	\$237,344,741
Chemical pulp	5,203,799	522,539,122
Other pulp*	377,161	12,742,236
Total Wood-Pulp Production	11,461,489	\$772,626,099
Wood-pulp imports	63,904	8,657,407
	11,525,393	\$781,283,506

In addition to wood-pulp, the following fibrous materials were used in 1960 in the production of certain grades of paper and paperboard:

	Tons	Value
Rag, cotton and flax waste and sweepings, and cotton linters	12,683	\$ 1,264,457
Old and waste paper and broke (purchased)	414,643	14,204,815
Side runs (purchased)	2,068	151,903
Straw	845	23,531
Flax fibre	1,964	297,396
Fibre and leather scrap	2,901	73,708
Manilla stock, including jute bagging, rope, waste, thread, etc.	401	39,453
Other paper stock	11,309	430,495
Total Other Stock Used	446,814	\$ 16,485,758
Total Stock	11,972,207	\$797,769,264
Pulp inventories at pulp and paper mills at the beginning of the year	184,202e	20,484,517e
Total	12,156,409	\$818,253,781
Less pulp inventories at pulp and paper mills at the end of the year	180,279e	19,117,681e

Sold, or converted into paper, paperboard and other board 11,976,130 \$799,136,100

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

e: Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.

Table 15. Shipments by Products, 1960

From the 11,976,130 tons of pulp available for conversion or sale in 1960 the following products were manufactured and shipped:

	Tons	%	Value	%
Wood-pulp:				
To Canadian customers	315,486	2.65	\$ 41,631,197	2.73
To Canadian affiliated mills	149,311	1.26	16,212,917	1.07
To foreign customers (a)	2,619,116	22.02	310,754,190	20.40
Total Wood-Pulp	3,083,913	25.93	\$ 368,598,304	24.20
Newsprint (b)	6,773,583	56.95	\$ 793,469,810	52.09
Paperboard and Other Boards:				
Paperboard	966,193	8.12	\$ 140,028,966	9.19
Building boards	229,332	1.93	26,926,482	1.77
Wet machine boards	6,604	.06	1,291,665	.08
	1,202,129	10.11	\$ 168,247,113	11.04
Other Papers:				
Wrapping papers	301,029	2.53	\$ 65,918,179	4.33
Book and writing papers	400,868	3.37	105,914,944	6.95
Tissue and sanitary papers	55,200	.46	14,101,286	.92
Building papers	71,113	.60	5,309,229	.35
Special industrial papers	6,330	.05	1,836,520	.12
	834,540	7.01	\$ 193,080,158	12.67
Total Paper and Board	8,810,252	74.07	\$1,154,797,081	75.80

Total Shipments of Pulp and Paper (c) 11,894,165 100.00 \$1,523,395,385 100.00

Converted paper products \$ 49,429,098

By-products and miscellaneous services \$ 5,902,625

Total Value of Mill Shipments \$1,578,727,108

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.

Source: Dominion Bureau of Statistics.

Table 16. Wood-Pulp Use and Sale, 1960

Tons	Pro-duction	Imports	Exports	Con-sumption by Canadian Paper Mills	Apparent Domestic Sales or Inventory Changes(a)
Groundwood	5,880,529	105	235,445	5,625,093	20,096
Sulphite, paper grades	2,291,850	38,850	603,905	1,811,840	— 85,045
Sulphate, paper grades	2,441,784	17,060	1,466,239*	968,468	24,137
Dissolving and Special Alpha	392,392	7,889	242,001	4,720	153,560
Screenings and others	454,934	—	53,868	422,654	— 21,588
	11,461,489	63,904	2,601,458	8,832,775	91,160

* Includes Dissolving and Special Alpha.

a: Minus quantities indicate reduction of inventories.

Source: Dominion Bureau of Statistics.

Table 17.

Pulp, Paper, Paper Products, and Pulpwood Exports 1961

PULP —	Total Exports		To U.S.A.		To United Kingdom		To Other Countries	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
Dissolving and Special Alpha (Sulphite and Sulphate)	307,232	\$ 51,955,803	241,521	\$ 41,558,379	16,144	\$ 2,843,631	49,567	\$ 7,553,793
Sulphate — Paper Grades	1,634,604	195,822,259	1,237,307	152,327,432	108,401	12,701,433	288,896	30,793,394
Bleached	1,060,277	139,550,593	886,919	117,953,666	56,782	7,379,732	116,576	14,217,195
Semi-bleached	160,958	17,438,577	99,106	10,738,991	20,164	2,169,980	41,688	4,529,606
Unbleached	413,369	38,833,089	251,282	23,634,775	31,455	3,151,721	130,632	12,046,593
Sulphite — Paper Grades	634,398	76,662,720	474,302	58,182,436	89,083	10,579,539	71,013	7,900,745
Bleached	444,032	55,509,779	372,387	46,783,492	29,323	3,780,661	42,322	4,945,626
Unbleached — Strong	132,018	14,454,409	83,940	9,314,987	28,523	3,125,641	19,555	2,013,781
Unbleached — News Grade	58,348	6,698,532	17,975	2,083,957	31,237	3,673,237	9,136	941,338
Total Chemical	2,576,234	\$324,440,782	1,953,130	\$252,068,247	213,628	\$ 26,124,603	409,476	\$ 46,247,932
Mechanical	236,022	15,981,906	184,048	12,815,878	50,809	3,080,530	1,165	85,498
Bleached	18,077	1,406,272	17,758	1,378,821	—	—	319	27,451
Unbleached	217,945	14,575,634	166,290	11,437,057	50,809	3,080,530	846	58,047
Other Pulp	45,663	5,918,316	28,481	3,745,365	14,409	1,817,815	2,773	355,136
Screenings	10,926	319,709	10,926	319,709	—	—	—	—
Chemical	7,454	267,816	7,454	267,816	—	—	—	—
Mechanical	3,472	51,893	3,472	51,893	—	—	—	—
Total Miscellaneous	292,611	\$ 22,219,931	223,455	\$ 16,880,952	65,218	\$ 4,898,345	3,938	\$ 440,634
TOTAL PULP	2,868,845	\$346,660,713	2,176,585	\$268,949,199	278,846	\$ 31,022,948	413,414	\$ 46,688,566
NEWSPRINT PAPER —								
Standard	6,253,717	761,312,790	5,228,156	629,791,521	456,962	59,293,740	568,599	72,227,529
Mutilated	26,393	1,745,438	21,255	1,366,700	1,988	116,604	3,150	262,134
TOTAL NEWSPRINT	6,280,110	\$763,058,228	5,249,411	\$631,158,221	458,950	\$ 59,410,344	571,749	\$ 72,489,663
OTHER PAPER —								
Wrapping	42,663	6,464,135	4,376	883,284	23,795	3,464,654	14,492	2,116,197
Bleached Sulphite and Sulphate	2,187	450,521	1,806	361,595	341	77,529	40	11,397
Unbleached Sulphite and Sulphate	40,163	5,891,110	2,382	454,809	23,376	3,357,223	14,405	2,079,078
Wrapping — n.o.p.	313	122,504	188	66,880	78	29,902	47	25,722
Book and Writing	63,676	12,880,255	38,243	6,346,369	6,379	1,591,107	19,054	4,942,779
Groundwood Printing — n.o.p.	33,492	5,605,170	29,992	4,813,453	295	48,907	3,205	742,810
Book and Litho — Uncoated	4,357	1,025,710	802	128,983	1,113	287,645	2,442	609,082
Book — n.o.p.	8,481	1,662,415	7,249	1,318,967	176	67,493	1,056	275,955
Writing and Reproduction	16,422r	4,312,423r	140	58,678	4,739	1,165,723	11,543r	3,088,022r
Fine Paper — n.o.p.	924	274,537	60	26,288	56	21,339	808	226,910
Paperboard	106,213	12,460,599	5,918	871,278	91,131	10,534,735	9,164	1,054,586
Container Board	93,634	10,407,422	234	24,647	85,114	9,481,970	8,286	900,805
Solid Bleached and Folding Boxboard — n.o.p.	6,022	1,054,063	87	13,942	5,889	1,031,250	46	8,871
Set-up Boxboard — n.o.p.	4,410	608,421	4,312	591,795	55	10,043	43	6,583
Pulpboard for Building Board	20	3,445	18	2,620	2	825	—	—
Wet Machine Board	1,441	302,034	801	183,538	8	1,280	632	117,216
Paperboard — n.o.p.	686	85,214	466	54,736	63	9,367	157	21,111
Building Board	23,875	2,191,213	19,393	1,886,242	3,465	200,813	1,017	104,158
Rigid Insulating Board	11,389	1,309,352	10,343	1,204,060	658	48,085	388	57,207
Hardboard	12,332	859,137	9,014	677,987	2,807	152,728	511	28,422
Building Board — n.o.p.	154	22,724	36	4,195	—	—	118	18,529
Roofing and Building Paper	2,760	296,738	422	83,248	43	7,886	2,295	205,604
Tissue Paper, except Sanitary	1,137	268,221	—	—	1,002	222,500	135	45,721
Sanitary Paper	5,717	1,228,436	859	183,521	2,380	511,671	2,478	533,244
Hanging — not Printed	3,170	443,899	3,018	427,978	152	15,921	—	—
Special Industrial Paper	40	7,465	—	184	—	—	40	7,281
Coated Paper, except Machine Coated	921	383,952	293	127,814	100	55,115	528	201,023
Waste Paper — n.o.p.	35,852r	1,326,101r	34,632	1,263,938	65	3,617	1,155	58,546
TOTAL OTHER PAPER	286,024	\$ 37,951,014	107,154	\$ 12,073,856	128,512	\$ 16,608,019	50,358	\$ 9,269,139
PAPER PRODUCTS — (a)								
Paper Bags and Multiwall Sacks	—	543,480	—	23,178	—	825	—	519,477
Paper Containers and Parts — n.o.p.	—	702,785	—	170,999	—	15,692	—	516,094
Hangings or Wall Paper	—	1,378,034	—	964,559	—	59,875	—	353,600
Packaged Toilet Paper	1,551	425,810	156	38,999	374	100,548	1,021	286,263
Notebooks, Scribbles and Pads	—	67,554	—	796	—	115	—	66,643
Stationery, Paper Office Supplies — n.o.p.	—	127,166	—	40,842	—	7,573	—	78,751
Converted Paper — n.o.p.	752	241,671	227	52,565	42	22,088	483	167,018
Paper End Products — n.o.p.	—	141,391	—	107,934	—	860	—	32,597
TOTAL PAPER PRODUCTS	2,303	\$ 3,627,891	383	\$ 1,399,872	416	\$ 207,576	1,504	\$ 2,020,443
TOTAL PULP, PAPER AND PAPER PRODUCTS	9,437,282	\$1,151,297,846	7,533,533	\$913,581,148	866,724	\$107,248,887	1,037,025	\$130,467,811
PULPWOOD —								
Pulpwood (b)	1,061,048	\$ 27,156,575	785,373	\$ 18,194,984	76,196	\$ 2,842,655	199,479	\$ 6,118,936
Chips	404,627	\$ 2,775,507	404,627	\$ 2,775,507	—	—	—	—
GRAND TOTAL	—	\$1,181,229,928	—	\$934,551,639	—	\$110,091,542	—	\$136,586,747

(a) Weight of most paper products is unavailable.

(b) Peeled and unpeeled cords.

r: Corrected figure.

*Less than one ton.

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
1926	3,229,791	115,154,199	1,005,780	52,077,122
1927	3,278,978	114,442,550	879,154	46,996,041
1928	3,608,045	121,184,214	863,801	45,614,823
1929	4,021,229	129,033,154	830,848	43,367,984
1930	3,619,345	112,355,872	760,220	39,059,979
1931	3,167,960	84,780,809	622,537	30,056,643
1932	2,663,248	64,412,453	452,293	18,930,064
1933	2,979,562	64,114,074	608,510	23,354,637
1934	3,636,335	75,726,958	605,641	25,444,844
1935	3,868,341	79,722,039	662,475	27,625,730
1936	4,485,445	92,336,953	754,496	31,246,695
1937	5,141,504	116,729,228	870,716	41,815,731
1938	3,667,789	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	1,557,348	171,504,163
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	706,232,534	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	11,833,269e	n.a.	2,868,845	346,660,713

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
1926	1,251,178	69,220,427	623,703	40,571,304
1927	1,278,572	69,169,002	599,478	38,867,036
1928	1,392,755	72,500,188	628,438	39,447,807
1929	1,501,273	76,198,051	585,108	36,817,157
1930	1,265,057	63,156,351	527,800	32,677,201
1931	1,086,735	46,998,988	443,903	25,226,042
1932	913,438	35,987,294	328,532	16,290,037
1933	1,092,601	38,510,217	459,773	20,444,761
1934	1,211,619	44,535,515	472,447	22,540,981
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	1,335,690	159,359,711
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	5,560,355e	n.a.	2,621,897	330,359,098

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.				
Tons	Sulphite	Sulphate	Other	Total
1931	385,421	54,993	3,488	443,902
1932	287,930	38,531	2,071	328,532
1933	395,715	59,320	4,738	459,773
1934	376,460	88,037	7,950	472,447
1935	411,817	96,954	10,709	519,480
1936	464,739	119,400	13,373	597,512
1937	546,141	122,781	11,342	680,264
1938	335,273	76,286	10,039	421,597
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

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

Source: Dominion Bureau of Statistics.

Table 21.

Destination of Sulphite and Sulphate Pulp Exports

To:	Sulphite*		Sulphate		To	Sulphite*		Sulphate	
	1961 Tons	1960 Tons	1961 Tons	1960 Tons		1961 Tons	1960 Tons	1961 Tons	1960 Tons
North & Central America . . .	739,410	650,978	1,266,408	1,133,574	South America	18,921	8,519	77,845	48,784
United States	715,823	641,313	1,237,307	1,125,345	Argentina	9,902	5,420	24,606	2,961
Cuba	13,785	554	29,097	8,229	Colombia	1,108	—	21,995	19,720
Mexico	9,030	9,109	—	—	Venezuela	3,935	1,986	13,078	4,093
Dominican Republic	672	—	—	—	Brazil	2,504	532	9,619	12,068
Puerto Rico	100	—	—	—	Peru	591	—	6,972	8,179
Guatemala	—	—	4	—	Uruguay	881	551	1,432	1,191
Barbados	—	2	—	—	Chile	—	—	110	572
Europe	124,050	135,684	208,912	222,925	Ecuador	—	—	33	—
United Kingdom	105,227	118,313	108,401	111,980	British Guiana	—	30	—	—
West Germany	1,400	2,441	42,587	50,898	Asia	44,644	48,819	59,385	29,630
France	11,722	6,584	24,381	24,937	India	27,587	26,502	56	1,399
Italy	2,131	1,272	14,641	15,435	Pakistan	4,470	—	17,533	2,239
Netherlands	586	55	7,771	8,268	Japan	6,095	19,999	14,499	—
Belgium and Luxembourg . .	441	909	4,163	5,509	Philippines	699	—	13,397	7,211
Switzerland	55	110	4,403	3,885	Taiwan	1,384	276	7,686	9,385
Yugoslavia	2,196	—	551	—	Communist China	3,307	—	1,652	—
Finland	110	—	772	666	Israel	—	—	2,477	2,394
Austria	16	—	667	38	Indonesia	—	—	881	878
Ireland	—	—	289	1,309	Korea	—	1,663	637	1,715
Spain	—	—	275	—	Thailand	551	—	—	—
Greece	166	2,863	—	—	Viet-Nam	551	—	—	—
Sweden	—	—	11	—	Ceylon	—	—	567	—
Poland	—	2,203	—	—	Hong Kong	—	—	—	4,409
Portugal	—	714	—	—	Turkey	—	379	—	—
Norway	—	220	—	—	Oceania	6,100	1,630	18,750	30,265
Africa	8,505	276	3,304	1,061	Australia	6,100	1,630	18,750	30,265
Union of South Africa . . .	6,522	56	824	1,066	Total Exports	941,630	845,906	1,634,604	1,466,239
U.A.R.—Egyptian Region . .	1,212	220	2,204	—					
Nigeria	550	—	265	—					
Morocco	221	—	—	—					
Tanganyika	—	—	11	—					
Fed. of Rhodesia & Nyasaland	—	—	—	55					

*Including both sulphite and sulphate Dissolving and Special Alpha in 1961.
Source: Dominion Bureau of Statistics.

Table 22. 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
1926 . . .	4,394,766	1,731,413	864,333	34,220	1,697,193
1927 . . .	4,313,403	1,675,768	778,999	32,006	1,643,762
1928 . . .	4,510,800	1,754,963	784,981	33,484	1,721,479
1929 . . .	4,862,885	1,880,728	796,945	54,067	1,826,661
1930 . . .	4,630,308	1,830,217	735,864	48,426	1,781,791
1931 . . .	4,409,344	1,596,421	550,127	53,308	1,543,113
1932 . . .	3,760,267	1,481,760	425,326	47,860	1,433,900
1933 . . .	4,276,204	1,941,576	550,871	79,193	1,862,383
1934 . . .	4,436,128	1,805,972	541,728	142,932	1,663,040
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	1,313,884a	122,133	1,640,969
1950 . . .	14,848,951	2,385,181	1,717,035a	95,673	2,289,508
1951 . . .	16,524,408	2,360,706	1,876,505a	201,908	2,158,798
1952 . . .	16,472,979	1,941,259	1,581,214a	211,924	1,729,335
1953 . . .	17,537,297	2,157,574	1,613,665a	161,687	1,995,887
1954 . . .	18,333,153	2,051,798	1,679,448a	443,870	1,607,928
1955 . . .	20,739,696	2,213,353	1,864,721a	634,276	1,579,077
1956 . . .	22,130,949	2,334,253	1,956,592a	534,494	1,799,759
1957 . . .	21,800,209	2,106,681	1,840,048a	628,721	1,477,960
1958 . . .	21,795,652	2,101,787	1,819,301a	515,859	1,585,928
1959 . . .	24,383,391	2,431,433	1,975,391a	652,437	1,778,996
1960 . . .	25,315,589	2,381,487	2,031,941a	1,137,447	1,244,040
1961 . . .	26,374,813p	2,466,660p	2,199,528ap	1,177,755p	1,288,905p

a: Includes Newfoundland.

p: preliminary.

Source: United States Bureau of the Census.

Table 23. 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

* 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 24.

Chemical Pulps — Paper Grades (Sulphite and Sulphate)

	(See Note)		(See Note)		(See Note)		Apparent Supply (b)
	Tons	Value	Tons	Value	Tons	Value	Tons
BLEACHED SULPHITE (1)							
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	676,855e	n.a.	444,032	55,509,779	8,332	1,062,350	284,347e
UNBLEACHED SULPHITE (2)							
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	1,741,949e	n.a.	190,366	21,152,941	27,255	3,254,792	1,578,838e
TOTAL SULPHITE							
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	2,418,804e	n.a.	634,398	76,662,720	35,587	4,317,142	1,819,993e
BLEACHED SULPHATE (3)							
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	909,262*	126,510,808*	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	1,273,363e	n.a.	1,060,277	139,550,593	n.a.	n.a.	n.a.
SEMI-BLEACHED SULPHATE (3)							
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	363,571e	n.a.	160,958	17,438,577	n.a.	n.a.	n.a.
UNBLEACHED SULPHATE (3)							
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	1,059,645e	n.a.	413,369	38,833,089	n.a.	n.a.	n.a.
TOTAL SULPHATE							
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	2,696,579e	n.a.	1,634,604	195,822,259	13,267*	1,897,186*	1,075,242e
TOTAL SULPHITE AND SULPHATE							
1956	4,158,128	382,844,042	1,734,695g*	223,921,532g*	60,786*	7,513,758*	2,484,219
1957	4,102,460	402,889,905	1,707,127g*	219,318,236g*	60,864*	7,532,234*	2,456,197
1958	4,039,105	406,684,008	1,728,275g*	225,293,350g*	49,995*	6,609,247*	2,360,825
1959	4,363,628	430,409,594	1,889,140*	240,417,600*	58,225*	7,765,859*	2,532,713
1960	4,733,634	452,119,700	2,070,144*	259,996,362*	55,910*	7,325,237*	2,719,400
1961	5,115,383e	n.a.	2,269,002	272,484,979	48,854*	6,214,328*	2,895,235e

Note: Statistics of other grades of chemical pulp, of which the output is small, are included in Table 29.

*: includes sulphate dissolving pulp.

(1) for comparable figures 1920-1955, see Table 31.

(2) for comparable figures 1920-1955, see Table 30.

Source: Dominion Bureau of Statistics.

(3) for comparable figures 1920-1955, see Table 32.

Other footnotes: See Table 25.

Table 25.

Chemical Pulps — Dissolving and Special Alpha (Sulphite and Sulphate)

	(See Note)		(See Note)		(See Note)		Apparent Supply (b)
	Tons	Value	Tons	Value	Tons	Value	Tons
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	365,033e	n.a.	307,232	51,955,803	12,825*	2,182,058*	70,626e

Note: Comparable figures not published prior to 1956. For statistics of sulphite dissolving pulp 1944-1955, see Table 31.

*: Sulphite only.

b: estimated on the basis of production plus imports minus exports. Although the values shown for production, exports and imports are individually correct value of Apparent Supply cannot be calculated in this manner, because each series comprises varying proportions of several grades, and their valuation also differs.

e: Canadian Pulp and Paper Association estimate.

g: includes semi-bleached.

n.a.: not available.

Source: Dominion Bureau of Statistics.

Table 26.

Mechanical Pulp

	Production		Exports		Imports		Apparent Supply (b) Tons
	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
1931	2,016,480	37,096,768	165,098	4,606,167	404	6,722	1,851,786
1932	1,696,021	28,018,451	116,229	2,562,089	40	3,476	1,579,832
1933	1,824,553	25,150,963	132,152	2,688,023	158	3,518	1,692,559
1934	2,340,441	30,556,675	120,121	2,727,902	32	944	2,220,352
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	63,426,919	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	207,359	11,920,602	362	28,745	4,511,809
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	298,972	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	5,900,004e	n.a.	236,022	15,981,906	69	7,929	5,664,051e
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	—	—	n.a.
1957	49,641	3,259,314	35,095	2,508,198	—	—	n.a.
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	—	—	n.a.
1960	327,056	10,222,163	12,858	990,707	n.a.	n.a.	n.a.
1961	n.a.	n.a.	18,077	1,406,272	n.a.	n.a.	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	—	—	n.a.
1957	5,524,592	224,408,850	212,521	15,058,406	—	—	n.a.
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	—	—	n.a.
1960	5,553,473	227,122,578	222,587	15,357,674	n.a.	n.a.	n.a.
1961	n.a.	n.a.	217,945	14,575,634	n.a.	n.a.	n.a.

Footnotes: See Table 25.

Source: Dominion Bureau of Statistics.

Table 27.

Defibrated and Exploded Pulps

	Production		Exports		Imports		Apparent Supply (b) Tons
	Tons	Value	Tons	Value	Tons	Value	
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	167,198e	n.a.	—	—	—	—	167,198e

Footnotes: See Table 25.

Note: Prior to 1946 defibrated and exploded fibres were not considered as pulps and were shown only as paper-making materials under the headings "Other wood fibre purchased" or "Other fibre and stock purchased".

Source: Dominion Bureau of Statistics.

Table 28.

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
1924	50,777	816,248	18,287e	400,765e	—	—	32,490
1925	65,364	1,106,633	24,526e	565,135e	—	—	40,838
1926	77,310	1,132,290	28,327e	579,608e	—	—	48,983
1927	78,282	1,098,737	18,845	364,541	—	—	59,437
1928	87,591	1,134,702	31,693	620,896	—	—	55,898
1929	99,182	1,217,743	36,408	644,189	—	—	62,774
1930	71,158	882,027	23,662	415,606	—	—	47,496
1931	64,745	685,053	13,536	224,434	—	—	51,209
1932	53,789	406,708	7,532	77,937	—	—	46,257
SCREENINGS — CHEMICAL							
1933	27,700	228,953	9,039	145,512	—	—	18,661
1934	29,851	296,107	8,311	139,806	—	—	21,540
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	52,862e	n.a.	7,454	267,816	—	—	45,408e
SCREENINGS — MECHANICAL							
1933	34,496	181,481	7,546	76,341	—	—	26,950
1934	54,324	318,648	4,762	36,155	—	—	49,562
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	22,463e	n.a.	3,472	51,893	—	—	18,991e

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".

Other footnotes: See Table 25.

Note: Screenings were not reported separately prior to 1923. It is assumed that these were included with "Other wood-pulps". Exports of screenings prior to 1927 were probably shown with "All other manufactures of wood, n.o.p.".

Source: Dominion Bureau of Statistics.

Table 29.

Other Wood-Pulps

Year	Production		Exports		Imports		Apparent Supply (b) Tons
	Tons	Value	Tons	Value	Tons	Value	
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
1926	5,876	339,792	—	—	2,031	127,178	7,907
1927	11,246	678,764	354e	24,780e	787	51,600	11,679
1928	18,559	1,106,868	4,349e	280,976e	267	18,274	14,477
1929	14,937	1,047,290	6,366e	447,320e	158	10,629	8,729
1930	12,804	768,240	5,187	369,585	22	1,490	7,639
1931	8,667	433,350	3,488	178,909	89	5,090	5,268
1932	7,133	356,650	2,071	83,008	40	3,476	5,102
1933	11,964	512,540	4,737	181,745	158	3,518	7,385
1934	15,097	624,872	7,950	343,369	—	—	7,147
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	210,326e	n.a.	45,663	5,918,316	—	—	164,663e

Footnotes: See Table 25.

Source: Dominion Bureau of Statistics.

Table 30.

Unbleached Sulphite Pulp (1920-1955)

ALL GRADES	Production		Exports		Imports		Apparent Supply (b) Tons
	Tons	Value	Tons	Value	Tons	Value	
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
1926	738,235	35,406,932	254,574	14,393,546	17,927	956,387	501,588
1927	726,747	33,803,631	192,557	10,269,560	22,325	1,165,112	556,515
1928	812,458	35,359,990	214,126	10,738,977	21,675	1,037,865	620,007
1929	911,684	38,144,801	196,978	9,713,979	18,930	925,444	733,636
1930	783,410	32,494,078	187,424	9,201,250	12,937	614,364	608,923
1931	640,222	22,433,990	123,721	5,146,954	12,741	526,094	529,242
1932	512,593	16,174,624	80,219	2,606,647	13,072	441,440	445,446
1933	553,801	15,070,885	100,604	3,067,525	5,430	167,744	458,627
1934	650,380	17,933,546	102,316	3,373,231	8,086	252,305	556,150
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	103,606,878	354,444	36,076,547	23,979	2,408,712	1,023,903
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

Source: Dominion Bureau of Statistics.

Table 31.

Bleached Sulphite Pulp (1920-1955)

	Tons	Production Value	Tons	Exports Value	Tons	Imports Value	Apparent Supply (b) Tons
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
1926	256,868	19,645,060	200,994	15,734,220	257	19,098	56,131
1927	289,313	21,087,792	237,227	18,407,169	213	17,346	52,299
1928	304,769	22,451,771	251,542	19,112,964	293	32,775	53,520
1929	324,548	23,814,234	253,809	19,246,692	588	64,363	71,327
1930	293,394	19,619,367	249,098	17,954,714	1,291	99,511	45,587
1931	301,357	16,978,118	261,700	16,282,735	201	17,535	39,858
1932	256,478	13,081,700	207,711	11,181,623	161	9,755	48,928
1933	355,812	16,109,572	295,111	14,145,283	74	3,384	60,775
1934	340,262	18,034,000	274,144	14,607,138	87	4,533	66,205
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
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
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

Footnotes: See Table 25.

Source: Dominion Bureau of Statistics.

Table 32.

Sulphate Pulp (1920-1955)

	Production		Exports		Imports		Apparent Supply (b)
	Tons	Value	Tons	Value	Tons	Value	
ALL GRADES							
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
1926	250,234	13,829,868	168,134	10,443,538	—	—	82,100
1927	251,266	13,598,815	169,693	10,193,307	—	—	81,573
1928	256,969	13,581,559	162,771	9,595,866	—	—	94,198
1929	250,104	13,191,726	134,321	7,856,486	c	19	115,783
1930	175,449	10,274,666	86,091	5,151,652	1,672	48,746	91,030
1931	136,489	7,153,530	54,993	3,617,444	983	37,463	82,479
1932	137,234	6,374,320	38,531	2,418,760	6	1,097	98,709
1933	171,236	6,859,680	59,320	3,050,208	2	69	111,918
1934	205,980	7,963,110	88,037	4,217,243	—	—	117,943
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.

g: Includes semi-bleached.

Other footnotes: See Table 25.

Source: Dominion Bureau of Statistics.

Table 33.
Consumption of Wood-Pulp in Paper, Paperboard, and Other Board Production, by Sources, 1920-1961

Year	All Kinds Tons	Bleached Sulphite Tons	1920 - 1951				Defibrated & Exploded Tons(**)	Other Wood-Pulp Tons
			Unbleached Sulphite Tons	Sulphate Tons	Mechanical Tons	Screenings 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
1936	3,557,373	28,123	592,048	124,933	2,742,159	66,653	—	3,457
1937	4,056,147	31,148	677,084	152,941	3,123,599	66,702	—	4,673
1938	2,953,745	32,527	448,031	121,267	2,302,009	46,340	—	3,571
1939	3,271,263	38,863	471,295	154,155	2,555,740	47,106	—	4,104
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	318,359	3,712,242	69,657	48,549	12,863
1947	5,249,369	67,720	759,869	339,665	3,928,813	76,895	52,613	23,794
1948	5,534,167	64,534	811,142	374,707	4,077,780	88,225	65,636	52,143
1949	5,991,912	67,435	928,159	363,564	4,427,388	81,135	75,403	48,828
1950	6,213,302	74,043	956,733	403,458	4,566,343	63,788	88,962	59,975
1951	6,583,069	80,225	1,036,328	435,335	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
1936	188,586	56,586	47,426	26,635	13,815	39,032	—	5,092
1937	196,807	45,944	63,967	28,291	12,596	39,632	—	6,377
1938	168,435	41,853	54,989	25,746	9,992	29,536	—	6,319
1939	189,351	46,798	59,179	29,616	11,608	34,246	—	7,904
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	39,789	16,498	41,929	—	10,299
1947	335,692	98,896	101,835	39,941	35,570	47,590	—	11,860
1948	319,133	93,780	104,061	39,882	31,689	37,569	—	12,152
1949	347,095	91,213	84,932	44,776	89,222	26,077	—	10,875
1950	378,704	102,659	97,327	59,268	83,365	26,089	—	9,996
1951	432,813	114,842	105,401	72,290	100,872	28,461	—	10,947
OWN PULP FROM SAME MILL								
1952 - 1960								
1952	6,660,897	78,880	1,081,585	410,030	4,845,369	68,476	109,727	66,830
1953	6,744,045	74,710	1,118,222	437,985	4,844,401	59,997	125,443	83,287
1954	7,047,544	75,765	1,198,224	457,571	5,058,049	66,380	113,266	78,289
1955	7,315,431	76,234	1,303,254	475,197	5,156,788	64,997	139,136	99,825
1956	7,840,417	95,762	1,437,895	585,100	5,376,968	55,845	170,954	117,893
1957	7,674,117	95,120	1,412,201	573,170	5,284,747	50,551	152,366	105,952
1958	7,450,485	97,737	1,287,811	639,872	5,113,472	42,774	167,720	101,099
1959	7,894,261	108,980	1,342,572	729,797	5,376,166	49,237	173,619	113,890
1960	8,369,625	107,274	1,479,580	803,430	5,608,141	45,612	157,727	167,861
1961	8,444,984e	122,412e	1,488,713e	846,178e	5,633,218e	46,610e	159,279e	148,574e
OWN PULP FROM OTHER MILLS								
1952	216,496	51,874	78,942	16,459	49,083	17,007	—	3,131
1953	198,812	55,528	90,626	23,313	8,534	16,829	—	3,982
1954	204,944	58,225	93,327	24,354	8,145	17,425	—	3,468
1955	228,622	58,796	108,670	29,624	8,326	18,207	—	4,999
1956	228,028	52,826	101,746	30,309	20,087	17,147	—	5,913
1957	202,014	59,459f	86,052	28,191	12,498	10,027	—	5,787
1958	152,389	53,297f	62,119	21,725	7,617	5,023	—	2,608
1959	171,270	58,845f	77,550	21,587	5,401	5,989	—	1,898
1960	169,975	70,719f	65,027	23,675	4,570	4,036	—	1,948
1961	181,501e	80,699ef	65,428e	24,935e	4,591e	4,124e	—	1,724e
PURCHASED PULP								
1952	176,005	47,165	26,516	45,680	34,360	10,047	312	11,925
1953	204,160	48,701	32,615	52,759	49,576	10,586	23	9,900
1954	203,987	47,607	31,491	72,833	27,701	12,182	—	12,173
1955	255,824	53,923	45,410	85,818	48,388	8,376	—	13,909
1956	270,827	65,372	47,677	87,562	42,182	6,119	—	21,915
1957	266,839	59,992f	48,723	100,492	30,187	6,780	2,322	18,343
1958	278,653	59,884f	55,918	110,690	15,385	9,840	3,428	23,508
1959	301,612	54,781f	47,376	137,301	16,305	9,208	7,258	29,383
1960	293,175	55,263f	38,697	141,363	12,382	9,178	7,842	28,450
1961	305,798e	63,061ef	38,937e	148,884e	12,437e	9,379e	7,919e	25,181e

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.

* See note Table 28.

** See note Table 27.

Table 34. Consumption of Wood-Pulp in Paper, Paperboard, and Other Board Production, by Kinds

Year	All Kinds Tons	Bleached Sulphite Tons	Unbleached Sulphite Tons	Sulphate Tons	Mechanical Tons	Screenings Tons(*)	Defibrated & Exploded Tons(**)	Other Wood-Pulp 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	84,818	2,068,712	64,827	—	9,241
1931	2,565,843	56,259	530,191	81,487	1,842,234	48,751	—	6,921
1932	2,234,986	52,642	463,734	91,029	1,576,849	44,864	—	5,868
1933	2,368,120	53,109	458,729	105,573	1,690,453	51,320	—	8,936
1934	3,008,167	61,263	554,101	121,797	2,192,987	70,484	—	7,535
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	358,148	3,728,740	111,586	48,549	23,162
1947	5,585,061	166,616	861,704	379,606	3,964,383	124,485	52,613	35,654
1948	5,853,300	158,314	915,203	414,589	4,109,469	125,794	65,636	64,295
1949	6,339,007	158,648	1,013,091	408,340	4,516,610	107,212	75,403	59,703
1950	6,592,006	176,702	1,054,060	462,726	4,649,708	89,877	88,962	69,971
1951	7,015,882	195,067	1,141,729	507,625	4,844,796	109,192	113,166	104,307
1952	7,053,398	177,919	1,187,043	472,169	4,928,812	95,530	110,039	81,886
1953	7,147,017	178,939	1,241,463	514,057	4,902,511	87,412	125,466	97,169
1954	7,456,475	181,597	1,323,042	554,758	5,093,895	95,987	113,266	93,930
1955	7,799,877	188,953	1,457,334	590,639	5,213,502	91,580	139,136	118,733
1956	8,339,272	213,960	1,587,318	702,971	5,438,237	79,111	170,954	145,721
1957	8,142,960	214,571f	1,546,976	701,853	5,327,432	67,358	154,688	130,082
1958	7,881,527	210,918f	1,405,848	772,287	5,136,474	57,637	171,148	127,215
1959	8,367,143	222,606f	1,467,498	888,685	5,397,872	64,434	180,877	145,171
1960	8,832,775	233,256f	1,583,304	968,468	5,625,093	58,826	165,569	198,259
1961	8,932,283e	266,172ef	1,593,078e	1,019,997e	5,650,246e	60,113e	167,198e	175,479e

e: Canadian Pulp and Paper Association estimate.

* See note Table 28.

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

** See note Table 27.

Source: Dominion Bureau of Statistics.

Table 35. Imports of Wood-Pulp

Year	All Kinds Tons	Bleached Sulphite Tons	Unbleached Sulphite Tons	Sulphate Tons	Mechanical Tons	Other Wood-Pulp Tons
1920	21,142	50	13,162	3,587e	3,586e	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
1936	19,201	31	19,008	1	43	118
1937	21,054	20	20,443	c	415	176
1938	16,979	61	15,970	639	240	69
1939	21,544	895	19,334	1,112	21	182
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	—

Footnotes: See Table 21.

Source: Dominion Bureau of Statistics.

Table 36.

World Wood-Pulp Production, 1951-1960

(000's OF SHORT TONS)

	Canada			United States			Scandinavia			Other Countries			Total		
	Mech-anical	Chem-ical	All Grades	Mech-anical	Chem-ical	All Grades	Mech-anical	Chem-ical	All Grades	Mech-anical	Chem-ical	All Grades	Mech-anical	Chem-ical	All Grades
1951	5,328	3,985	9,313	3,418	13,103	16,521	2,352	4,971	7,323	3,487	4,797	8,284	14,585	26,856	41,441
1952	5,323	3,643	8,966	3,438	13,030	16,468	2,115	4,406	6,521	3,599	5,088	8,687	14,475	26,167	40,642
1953	5,281	3,794	9,075	3,495	14,037	17,532	2,270	4,580	6,850	3,891	5,734	9,625	14,937	28,145	43,082
1954	5,485	4,185	9,670	3,682	14,570	18,252	2,526	5,514	8,040	4,325	6,482	10,807	16,018	30,751	46,769
1955	5,636	4,513	10,149	4,136	16,598	20,734	2,684	6,012	8,696	4,664	7,127	11,791	17,120	34,250	51,370
1956	5,922	4,809	10,731	4,211	17,914	22,125	2,824	6,204	9,028	5,061	7,891	12,952	18,018	36,818	54,836
1957	5,754	4,580	10,422	4,267	17,527	21,794	2,874	6,631	9,505	5,338	8,460	13,710	18,233	37,198	55,431
1958	5,564	4,571	10,135	4,022	17,768	21,790	2,791	6,496	9,287	5,542	8,639	14,181	17,919	37,474	55,393
1959	5,848	4,891	10,829	4,468	17,926	24,317	2,960	6,863	9,864	5,750	9,403	15,495	19,026	39,083	60,505
1960p	6,031	5,176	11,354	4,468	18,710	25,147	3,369	7,798	11,233	6,073	10,523	17,053	19,941	42,207	64,787

p: preliminary.

Sources: FAO World Forest Products Statistics — A ten-year Summary, 1946-55, and FAO Yearbooks of Forest Products Statistics, 1956 to 1961.

Table 37.

World Wood-Pulp Exports, 1951-1960

(000's OF SHORT TONS)

	Canada			United States			Scandinavia			Other Countries			Total		
	Mech-anical	Chem-ical	All Grades	Mech-anical	Chem-ical	All Grades	Mech-anical	Chem-ical	All Grades	Mech-anical	Chem-ical	All Grades	Mech-anical	Chem-ical	All Grades
1951	328	1,914	2,242	—	202	202	927	3,223	4,150	12	331	343	1,267	5,670	6,937
1952	260	1,679	1,939	—	211	211	805	2,531	3,336	9	279	288	1,074	4,700	5,774
1953	234	1,716	1,950	—	162	162	906	3,245	4,151	17	359	376	1,157	5,482	6,639
1954	238	1,942	2,180	—	441	441	1,032	3,432	4,464	14	500	514	1,284	6,315	7,599
1955	268	2,098	2,366	—	633	633	1,069	3,674	4,743	30	598	628	1,367	7,003	8,370
1956	284	2,089	2,373	—	526	526	1,152	3,876	5,028	24	678	702	1,460	7,169	8,629
1957	252	2,030	2,282	—	630	630	1,097	3,856	4,953	34	713	747	1,383	7,229	8,612
1958	233	1,985	2,218	—	515	515	953	3,869	4,822	21	876	897	1,207	7,245	8,452
1959	245	2,205	2,450	—	652	652	998	4,341	5,339	19	918	937	1,262	8,116	9,378
1960p	239	2,362	2,601	—	1,142	1,142	1,186	4,675	5,875	19	919	1,027	1,444	9,206	10,656

p: preliminary.

Sources: FAO World Forest Products Statistics — A ten-year Summary, 1946-55, and FAO Yearbooks of Forest Products Statistics, 1956 to 1961.

Table 38. World Pulp Figures, 1960*

	In 000's of short tons		
	Production	Imports	Exports
Canada	11,354	64	2,601
United States	25,147	2,381	1,142
	36,501	2,445	3,743
Finland	4,070	3	1,757
Norway	1,681	50	888
Sweden	5,482	10	3,230
	11,233	63	5,875
Western & Central Europe (a)	5,269	6,753	572
All Other Countries	11,784	1,373	466
Total	64,787	10,634	10,656

(a) Includes Austria, Belgium-Luxembourg, Denmark, Federated Republic of Germany, France, Greece†, Ireland, Italy, Netherlands, Portugal, Spain, Switzerland, United Kingdom†, and Yugoslavia.

*Includes data from major pulp producing and consuming countries for which reliable and current data are available.

†Production figures not available for 1960.

Source: FAO Yearbook of Forest Products Statistics, 1961.

"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 39. 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	549,000	100.0	329,000	95,000	424,000	110,000	949,306	67,999
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
1926	2,121,000	2,068,208	97.5	1,750,749	182,000	1,932,749	147,000	2,079,749	92,643
1927	2,716,000	2,289,801	84.3	1,865,003	234,000	2,099,003	181,000	2,280,003	102,441
1928	3,262,000	2,611,847	80.1	2,040,920	370,000	2,410,920	193,000	2,603,920	110,368
1929	3,512,000	2,984,327	85.0	2,326,502	442,000	2,768,502	208,000	2,976,502	118,193
1930	3,902,000	2,791,406	71.5	2,145,471	442,000	2,587,471	162,000	2,749,471	160,128
1931	4,127,000	2,516,437	61.0	1,915,838	377,000	2,292,838	195,000	2,487,838	188,727
1932	4,142,000	2,186,120	52.8	1,647,216	386,000	2,033,216	146,000	2,179,216	195,631
1933	4,149,000	2,282,066	55.0	1,715,331	459,447	2,174,778	148,640	2,323,418	154,279
1934	4,182,000	2,911,355	69.6	2,113,767	625,877	2,739,644	173,755	2,913,399	152,235
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

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 40. 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

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 41. Newsprint Shipments Overseas

Tons	British Isles	Australia & N.Z.	South America	Central America	All Others
1935	330,331	143,106	95,907	21,707	136,287
1936	347,516	232,502	104,439	35,016	126,305
1937	408,043	125,222	101,468	42,508	89,692
1938	384,149	213,400	35,245	15,351	32,084
1939	354,211	171,839	54,501	29,757	42,843
1940	335,586	196,028	172,153	56,454	117,630
1941	150,863	91,441	208,144	60,735	105,707
1942	69,659	10,780	99,336	64,355	34,661
1943	127,856	52,202	133,188	47,308	38,086
1944	149,934	111,543	140,686	75,883	75,411
1945	223,044	116,211	146,700	78,957	120,557
1946	119,631	195,067	158,373	96,576	115,123
1947	131,203	212,444	131,658	102,382	123,152
1948	123,310	78,196	95,213	112,198	123,672
1949	126,484	74,000	33,417	106,332	108,464
1950	28,056	33,030	16,469	88,454	41,794
1951	103,462	37,671	15,463	116,306	87,165
1952	135,749	76,266	29,020	134,008	87,573
1953	189,591	48,396	30,420	127,997	76,511
1954	272,781	76,710	54,289	132,038	138,716
1955	306,910	99,202	51,621	115,120	162,049
1956	355,197	73,779	54,804	137,524	120,640
1957	395,901	82,890	77,957	161,587	134,329
1958	394,355	79,730	54,947	146,759	106,537
1959	415,392	102,282	36,153	171,074	110,037
1960	479,496	162,474	74,174	160,387	109,451
1961	459,151	146,633	117,287	154,764	111,032

Source: Newsprint Association of Canada.

Table 42. 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
1931	111,419,637	107,233,112
1932	85,539,852	82,966,199
1933	66,959,501	69,200,515
1934	86,811,460	82,503,659
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	819,000,000e	761,312,790

e: Canadian Pulp and Paper Association estimate.

n.a.: not available.

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

Source: Dominion Bureau of Statistics.

Table 43. Newsprint and Total Canadian Exports to United States

Millions of Dollars

Year	Newsprint* Exports to U.S.	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
1926	106.8	465.2	22.9
1927	114.0	474.6	24.0
1928	123.5	492.5	25.1
1929	129.0	522.6	24.7
1930	115.3	395.7	29.1
1931	94.4	257.1	36.7
1932	72.0	162.6	44.3
1933	58.3	187.9	31.0
1934	68.1	301.2	22.6
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	3,109.2	20.3

* Excludes mutilated newsprint.

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

Note: See footnote in Table 42.

Source: Dominion Bureau of Statistics.

Table 44. Value of Newsprint and Total Pulp and Paper Production

Figures for 1928-1948 do not include Newfoundland
Millions of Dollars

Year	Newsprint Production	Total Production	Newsprint Percent of Total
1928	144.1	233.1	61.8
1929	150.8	244.0	61.8
1930	136.2	216.0	63.1
1931	111.4	174.7	63.8
1932	85.5	135.6	63.1
1933	67.0	123.4	54.3
1934	86.8	152.6	56.9
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	1,676.6	46.7

Note: See footnote in Table 42.

Source: Dominion Bureau of Statistics.

Table 45. 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
1926	70.00	100.0	1.0001
1927	70.00	100.0	1.0003
1928	67.50	96.4	1.0009
1929	62.00	88.6	1.0076
1930	62.00	88.6	1.0016
1931	57.00	81.4	1.0381
1932	48.33	69.0	1.1352
1933	41.25	58.9	1.0874
1934	40.00	57.1	.9900
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	103.2	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

Newsprint Prices: Annual Average, Delivered at New York.

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

Table 46.

Principal Newsprint Producers Overseas

FINLAND			NORWAY		SWEDEN		SCANDINAVIA		BRITAIN		
Tons	Production	Exports	Production	Exports	Production	Exports	Production	Exports	Tons	Production	Exports
1929 . . .	219,198	200,100	203,976	186,065	281,781	218,621	704,955	604,786	1929 . . .	637,000	107,672
1930 . . .	228,577	206,130	202,510	186,851	244,972	188,803	676,059	581,784	1930 . . .	607,992	88,878
1931 . . .	232,984	209,324	108,412	95,111	268,737	199,574	610,133	504,009	1931 . . .	719,040	66,340
1932 . . .	223,784	211,550	199,268	174,047	261,209	202,908	684,261	588,505	1932 . . .	789,992	94,028
1933 . . .	263,895	243,925	166,820	148,694	270,125	201,329	700,840	593,948	1933 . . .	830,032	88,882
1934 . . .	294,739	279,171	154,410	135,531	277,861	207,365	727,010	622,067	1934 . . .	940,016	66,406
1935 . . .	320,923	295,973	192,485	170,162	301,756	229,689	815,164	695,824	1935 . . .	970,032	78,884
1936 . . .	402,016	364,964	188,131	174,668	288,615	197,483	878,762	737,115	1936 . . .	1,003,968	86,423
1937 . . .	448,829	418,745	225,832	198,886	309,965	221,103	984,626	838,734	1937 . . .	1,032,976	63,497
1938 . . .	458,493	390,374	199,513	166,637	288,615	176,304	946,621	733,315	1938 . . .	953,999	63,036
1939 . . .	550,363	432,589	221,562	188,330	306,127	199,210	1,078,052	820,129	1939 . . .	848,002	41,731
1940 . . .	94,554	62,346	68,207	46,250	139,746	51,389	302,507	159,985	1940 . . .	332,640	7,939
1941 . . .	63,728	54,113	42,193	24,622	108,415	11,912	214,336	90,647	1941 . . .	168,000	248
1942 . . .	89,109	67,154	37,082	21,522	187,523	76,956	313,714	165,632	1942 . . .	156,464	78
1943 . . .	128,155	109,500	35,300	24,047	187,374	64,382	350,829	197,929	1943 . . .	144,892	296
1944 . . .	93,216	50,800	28,757	13,589	216,031	77,654	338,004	142,043	1944 . . .	169,179	688
1945 . . .	122,735	100,735	59,874	41,083	228,725	85,619	411,334	227,437	1945 . . .	181,037	3,702
1946 . . .	263,072	236,225	121,680	96,175	289,070	138,039	673,822	470,439	1946 . . .	330,176	17,291
1947 . . .	297,065	273,365	125,302	100,070	298,621	167,041	720,988	540,476	1947 . . .	282,240	3,233
1948 . . .	356,058	317,971	157,248	128,373	327,332	195,949	840,638	642,293	1948 . . .	335,630	22,213
1949 . . .	423,413	391,148	171,259	158,230	344,867	233,057	939,539	782,435	1949 . . .	529,135	67,758
1950 . . .	459,826	416,207	175,235	147,546	357,904	225,998	992,965	789,751	1950 . . .	609,280	114,271
1951 . . .	453,758	415,088	179,679	144,901	365,496	221,560	998,933	781,549	1951 . . .	590,100	106,685
1952 . . .	479,981	434,272	167,264	137,841	364,620	239,647	1,011,865	811,760	1952 . . .	601,290	82,494
1953 . . .	484,164	437,462	172,309	135,280	372,115	226,919	1,028,588	799,661	1953 . . .	675,242	139,305
1954 . . .	492,863	431,602	173,961	131,414	372,962	213,295	1,039,786	776,311	1954 . . .	685,800	143,015
1955 . . .	589,825	525,528	183,415	140,212	399,364	217,518	1,172,604	883,258	1955 . . .	694,158	155,229
1956 . . .	656,900	588,016	206,402	164,969	457,232	274,487	1,304,751	1,011,689	1956 . . .	719,958	152,446
1957 . . .	686,333	603,462	199,883	155,170	475,908	297,483	1,362,124	1,056,115	1957 . . .	731,938	136,372
1958 . . .	694,522	632,622	205,034	161,259	498,157	305,770	1,397,713	1,099,651	1958 . . .	702,770	116,796
1959 . . .	716,013	640,134	230,900	181,661	557,443	355,033	1,504,356	1,176,828	1959 . . .	725,632	90,975
1960 . . .	744,301	660,401	247,000	192,000	641,274	435,854	1,632,575	1,288,255	1960 . . .	831,100	56,321
1961 . . .	948,489	822,880	257,431	197,705	683,692	477,807	1,889,612	1,498,392	1961 . . .	799,300	30,605

Sources: Ticon; Scannews. Scandinavia covers total of Finland, Norway and Sweden.

Source: British Board of Trade.

Table 47. U.S. Newsprint Production

Tons	Capacity	Production	Shipments to:		Total
			U.S.A.	Overseas Shipments	
1915 . . .	1,239,000	1,239,000	1,239,000	0	1,239,000
1920 . . .	1,548,000	1,511,968	1,511,968	0	1,511,968
1925 . . .	1,721,000	1,530,318	1,521,560	12,758	1,534,345
1930 . . .	1,687,000	1,282,372	1,262,721	5,344	1,268,065
1931 . . .	1,768,000	1,157,436	1,156,610	1,217	1,157,827
1932 . . .	1,771,000	1,008,588	1,008,982	981	1,009,963
1933 . . .	1,735,000	946,374	949,730	441	950,171
1934 . . .	1,714,000	961,403	962,318	4,197	966,515
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

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 1961, the Department showed exports of 182,016 tons versus 121,550 tons reported by the mills.

Source: Newsprint Service Bureau.

Table 48. U.S. Newsprint Consumption and Stocks*

Tons	Consumption			Consumers' Stocks*	
	ANPA	Percent	Total	Lbs. per Cap.	ANPA Total
1915 . . .	1,509,000	30.0	1,509,000	30.0	1,509,000
1920 . . .	2,197,000	41.3	2,197,000	41.3	2,197,000
1925 . . .	1,808,229	60.0	3,013,715	52.0	163,614
1930 . . .	2,735,428	76.0	3,599,247	58.5	256,472
1931 . . .	2,625,869	81.0	3,241,814	52.3	236,153
1932 . . .	2,265,741	80.0	2,832,176	45.4	196,443
1933 . . .	2,154,106	80.0	2,692,632	42.9	237,403
1934 . . .	2,485,824	80.0	3,107,280	49.2	323,453
1935 . . .	2,675,744	80.0	3,344,680	52.6	294,494
1936 . . .	2,953,557	80.0	3,691,946	57.7	305,385
1937 . . .	3,059,795	80.0	3,824,743	59.4	313,514
1938 . . .	2,737,815	80.0	3,422,269	52.7	315,027
1939 . . .	2,730,217	77.5	3,520,372	53.8	328,424
1940 . . .	2,855,952	76.5	3,731,331	56.5	356,472
1941 . . .	2,946,660	75.0	3,929,773	58.9	385,296
1942 . . .	2,834,940	74.3	3,815,532	56.6	479,349
1943 . . .	2,720,257	75.0	3,627,009	53.1	366,702
1944 . . .	2,351,096	72.5	3,242,891	46.9	342,280
1945 . . .	2,455,116	70.5	3,481,302	49.8	266,344
1946 . . .	3,136,276	73.0	4,296,268	60.8	292,806
1947 . . .	3,564,678	75.0	4,752,904	66.0	377,033
1948 . . .	4,009,829	78.0	5,140,806	70.1	458,145
1949 . . .	4,257,489	77.0	5,529,206	74.1	445,863
1950 . . .	4,541,760	76.5	5,936,941	78.3	424,960
1951 . . .	4,511,023	75.5	5,974,865	77.4	422,196
1952 . . .	4,551,238	76.0	5,988,471	76.3	611,909
1953 . . .	4,668,602	76.0	6,142,986	76.9	551,699
1954 . . .	4,683,698	76.0	6,162,761	75.9	516,363
1955 . . .	5,044,993	76.0	6,638,149	80.3	458,352
1956 . . .	5,208,761	75.5	6,899,020	82.1	635,756
1957 . . .	5,149,099	75.0	6,865,466	80.2	674,980
1958 . . .	4,949,986	74.5	6,644,276	76.3	651,698
1959 . . .	5,327,839	74.5	7,151,461	81.0	658,772
1960 . . .	5,532,154	74.5	7,425,709	82.2	628,092
1961 . . .	5,460,990	74.0	7,379,716	80.4	583,949

* 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 49. 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
1931	1,915,838	1,147,783	151,068	3,214,689
1932	1,647,216	1,000,124	144,921	2,792,261
1933	1,715,331	949,730	153,203	2,818,264
1934	2,113,767	962,318	147,060	3,223,145
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	1,057,228	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	154,148	7,345,646

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 50. Consumption by Larger Newspapers

	Tons	
	1960	1961
CANADA		
Calgary Herald	7,679	7,397
Edmonton Journal	12,154	12,200
Hamilton Spectator	13,848	13,674
London Free Press	11,898	12,732
Montreal La Presse	35,255	35,657
Montreal Star	26,300	27,100
Ottawa Citizen	7,624	8,119
Toronto Globe & Mail	24,204	24,240
Toronto Star	65,308	64,510
Vancouver Sun & Province	35,143	34,140
Winnipeg Tribune	7,850	7,437
UNITED STATES		
Atlanta Journal & Constitution	77,222	75,593
Chicago American	43,775	41,120
Chicago Sun-Times & Daily News	133,768	132,594
Chicago Tribune	201,688	192,001
Cleveland Plain Dealer	78,619	77,495
Detroit News	107,602	142,068
Los Angeles Times & Mirror News	203,602	216,865
Louisville Courier-Journal & Times	45,779	43,014
Milwaukee Journal	93,835	88,138
New York News	259,364	259,364
New York Times	253,169	256,956
Philadelphia Inquirer	137,915	130,741
St. Louis Post-Dispatch	74,660	73,313
Washington Post	83,000	86,000

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 51. North American Newsprint Stocks*

Tons	Manufacturers		Consumers	TOTAL
	Canada	United States	United States	
1921	72,339	23,934	269,025	365,298
1925	104,184	16,238	198,252	318,674
1930	160,128	32,061	305,830	498,019
1931	188,727	32,709	278,705	500,141
1932	195,631	21,783	238,790	456,204
1933	154,279	19,237	364,422	537,938
1934	152,235	14,125	480,287	646,647
1935	185,489	9,281	365,686	560,456
1936	129,443	14,013	378,505	521,961
1937	95,521	15,105	832,535	943,161
1938	208,181	18,583	409,929	636,693
1939	258,012	12,952	423,473	694,437
1940	224,139	13,455	465,733	703,327
1941	193,171	7,586	521,508	722,265
1942	158,832	9,601	645,492	813,925
1943	104,558	10,992	488,205	603,755
1944	97,728	7,357	483,822	588,907
1945	136,721	6,340	375,900	518,961
1946	146,524	15,218	409,867	571,609
1947	93,405	8,301	507,219	608,925
1948	109,195	8,946	619,357	737,498
1949	121,190	10,814	608,807	740,811
1950	89,142	8,241	593,252	690,635
1951	101,910	7,568	715,807	825,285
1952	122,512	11,726	820,649	954,887
1953	111,244	8,026	760,510	879,780
1954	124,990	6,204	721,594	852,788
1955	80,080	8,317	672,816	761,213
1956	100,073	10,190	897,739	1,008,002
1957	132,453	19,332	940,400	1,092,185
1958	184,690	16,494	907,154	1,108,338
1959	153,579	18,116	906,851	1,078,546
1960	139,789	25,502	860,620	1,025,911
1961	167,077	33,028	826,550	1,026,655

* End of each year.

Source: Newsprint Association of Canada and Newsprint Service Bureau.

Table 52. U.S. Newspaper Circulation

Year	Million copies; as at Sept. 30 of each year			
	Morning	Evening	Total Daily	Sunday
1920			27.8	17.1
1925			33.7	23.4
1930			39.6	26.4
1931			38.8	25.7
1932	13.7	22.7	36.4	24.9
1933	13.2	22.0	35.2	24.0
1934	13.9	22.8	36.7	26.5
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	46.4
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

Source: Editor & Publisher International Year Book.

Table 53. U.S. Newspaper Milline Rates

Rate per agate line of advertising per million of circulation as at December 31st of each year

Year	Morning	Evening	Sunday
1923	\$2.70	\$3.33	\$2.27
1924	2.71	3.32	2.29
1925	2.66	3.39	2.32
1926	2.57	3.35	2.33
1927	2.52	3.29	2.29
1928	2.52	3.40	2.30
1929	2.55	3.38	2.33
1930	2.52	3.45	2.36
1931	2.57	3.54	2.39
1932	2.57	3.72	2.46
1933	2.66	3.87	2.51
1934	2.58	3.75	2.26
1935	2.58	3.71	2.12
1936	2.58	3.72	2.16
1937	2.50	3.65	2.15
1938	2.57	3.73	2.13
1939	2.45	3.72	2.15
1940	2.37	3.59	2.11
1941	2.31	3.55	2.07
1942	2.23	3.48	1.99
1943	2.25	3.45	1.89
1944	2.29	3.16	2.01
1945	2.24	3.24	2.02
1946	2.28	3.38	2.02
1947	2.39	3.59	2.13
1948	2.49	3.68	2.22
1949	2.56	3.66	2.27
1950	2.65	3.83	2.41
1951	2.80	4.06	2.54
1952	2.97	4.23	2.68
1953	3.01	4.29	2.75
1954	3.01	4.34	2.76
1955	3.12	4.46	2.91
1956	3.19	4.65	2.80
1957	3.27	4.67	3.13
1958	3.44	4.97	3.27
1959	3.40	4.99	3.46
1960	3.63	5.09	3.55
1961	3.73	5.20	3.61

Source: Editor & Publisher International Year Book.

Table 54. U.S. Newspaper Pages Printed

Annual Averages

Year	Dailies	Sundays	Year	Dailies	Sundays
1920	23	79	1941	27	88
1921	23	80	1942	26	82
1922	25	89	1943	26	78
1923	27	97	1944	23	68
1924	28	103	1945	22	70
1925	29	109	1946	27	84
1926	30	111	1947	29	94
1927	30	107	1948	32	102
1928	30	104	1949	34	107
1929	32	104	1950	36	112
1930	29	91	1951	36	113
1931	27	82	1952	36	116
1932	24	72	1953	37	121
1933	24	70	1954	36	122
1934	26	78	1955	40	132
1935	26	82	1956	41	135
1936	28	85	1957	40	138
1937	28	87	1958	39	135
1938	26	81	1959	42	141
1939	27	82	1960	43	142
1940	27	86	1961	43	139

Source: Newsprint Service Bureau Bulletins.

Table 55. 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
1936	843.5	1902.4	44.3
1937	872.6	2071.7	42.1
1938	782.4	1904.0	41.1
1939	793.0	1980.4	40.0
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	1905.0	5202.2	36.6
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 est.	3629.0	11996.0	30.2

Source: Printers' Ink.

Table 56. U.S. Newspaper, Magazine, Radio and TV Advertising

	Newspapers Million Lines	Magazines Thousand Lines Pages	Radio Thousand Dollars	National TV Thousand Dollars
1928	1802	36,384	10,248	
1929	1897	40,608	18,732	
1930	1654	35,808	26,820	
1931	1465	28,908	35,784	
1932	1165	21,162	39,107	
1933	1065	18,666	31,516	
1934	1179	24,325	42,648	
1935	1247	25,380	49,284	
1936	1380	28,534	59,356	
1937	1410	32,049	69,249	
1938	1225	25,439	71,728	
1939	1244	25,616	83,115	
1940	1269	26,851	96,468	
1941	1313	27,667	106,141	
1942	1242	25,729	115,405	
1943	1396	33,116	152,644	
1944	1361	42,297	190,665	
1945	1392	49,035	190,746	
1946	1730	54,755	193,008	
1947	2009	50,794	190,930	
1948	2263	47,844	198,993	
1949	2302	43,817	187,800	12,294
1950	2440	45,845	183,520	40,613
1951	2478	48,076	174,719	127,990
1952	2505	48,331	163,454	180,795
1953	2611	50,517	160,535	227,611
1954	2581	48,770	137,641	320,154
1955	2843	52,350	n.a.	406,899
1956	2911	55,115	n.a.	488,168
1957	2829	55,941	n.a.	516,201
1958	2686	52,253	103,476	566,590
1959	2865	56,545	111,225	627,311
1960	2889	57,449	113,406	682,371
1961	2777	n.a.	104,709	748,873

n.a.: Not available.

Sources: Newspapers: Media Records 52 Cities. Magazines: Printers' Ink. Radio and TV: Publishers Information Bureau.

Table 57. U.S. Advertising Expenditures (All Media) and National Income

Year	Millions of Dollars		Percent Advertising to Income
	Advertising Expenditure	National Income	
1935	1,690.0	57,057	2.96
1936	1,902.4	64,911	2.93
1937	2,071.7	73,618	2.81
1938	1,904.0	67,581	2.82
1939	1,980.4	72,753	2.72
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	399,551	2.82
1960	11,931.7	417,054	2.86
1961 est.	11,996.0	430,200	2.78

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

Table 58. U.S. Advertising Indexes

1947-9 = 100; Television 1950-2 = 100							
Year	News- papers	Mag- azines	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 est. .	212	185	129	522	246	141	251

*Including Farm Publications, Direct Mail and Miscellaneous.
Source: Printers' Ink; dollar expenditures.

"E"—OTHER PAPER AND PAPERBOARD

All figures after 1948 include Newfoundland

Table 59. Production of Paperboard — Tonnage and Value, 1944-1961

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	1,059,877e
1961	393,512e	4,763e	181,725e	260,615e	63,892e	164,834e	1,069,341
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	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

NOTE: See notes A and B of Table 61.
e: Canadian Pulp and Paper Association estimate.
n.a.: Not available.
Source: Dominion Bureau of Statistics.

Table 60. Production — Other Papers and Boards — Tonnage and Value, 1944-1961

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	340,680e	417,454e	166,270e	79,766e	222,537e	7,777e	6,382e
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	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

NOTE: See notes A and B of Table 61.

(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.

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

Source: Dominion Bureau of Statistics.

Table 61. 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	\$3,067,405
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 59 and 60 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 62. Exports of Paper Products — Value

			Bags, Boxes or 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	
NEW CLASSIFICATION									
	Paper Bags & Multi- wall Sacks \$	Paper Con- tainers & parts n.o.p. \$	Hangings or Wall Paper \$	Packaged Toilet Paper Tons	Note- books Scribblers & Pads \$	Stationery, Paper Office Supplies n.o.p. \$	Converted Paper n.o.p. Tons	Paper End Products n.o.p. \$	TOTAL \$

NOTE: See note B of Table 61.

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

Source: Dominion Bureau of Statistics.

Table 63.

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

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 62 and 64.

Moreover, because they are compiled on a somewhat different basis, the two tables which follow are not comparable to the production figures in Tables 59, 60 and 61.

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 a preceding table under the heading "Paper Products".

	Coated	Wrapping Kraft, n.o.p.	n.o.p.	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
Tons													
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 61.

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

Source: Dominion Bureau of Statistics.

Table 64.

Exports of Paper (Except Newsprint) — Tonnage and Value, 1960 and 1961

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	—	1,874	
1961	—	—	33,492	4,357	8,481	16,422	924	63,676	921	2,760	
40											
Value											
1960	\$9,695,879	\$2,473,806	—	—	—	—	—	\$12,169,685	—	\$221,555	
1961	—	—	\$5,605,170	\$1,025,710	\$1,662,415	\$4,312,423	\$274,527	12,880,255	\$383,952	296,738	
\$7,465											
	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	1,313	43,663	—	—	1,137	5,717	3,170	35,852
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	1,326,101
	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 PAPER- BOARD	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
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

Total Exports of Paper (Except Newsprint) 1960: 274,997 tons \$34,963,844; 1961: 287,024 tons \$37,951,014.

NOTE: See note B of Table 61.

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

Source: Dominion Bureau of Statistics.

"F"—NATIONAL SIGNIFICANCE

All figures after 1948 include Newfoundland.

Table 65.
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
1927	219,329,753	5,549	110,492,354	4,356
1928	233,077,236	6,046	120,039,858	4,737
1929	243,970,761	6,134	122,288,583	4,708
1930	215,674,246	5,728	107,959,927	4,399
1931	174,733,954	4,699	88,166,297	3,382
1932	135,648,729	3,827	67,121,459	2,641
1933	123,415,492	3,510	57,289,643	2,368
1934	152,647,756	3,984	77,696,593	2,783
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
1957	1,419,288,324	31,909	693,475,562	24,011
1958	1,406,552,541	32,894	702,950,789	25,011
1959	1,496,620,836	34,784	759,492,171	26,417
1960	1,579,583,662	35,928*	811,546,844	27,154

*Preliminary figures.

† 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.

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
1922	158,950,956	81,258,232	3,671
1923	184,821,511	95,076,985	3,847
1924	179,259,504	89,629,253	3,865
1925	193,092,937	99,071,212	4,239

Source: Dominion Bureau of Statistics.

Table 67. Mill Locations

	Pulp Mills	Pulp & Paper Mills	Paper Mills	Total
Newfoundland	—	2	—	2
Nova Scotia	1	2	—	3
New Brunswick	4	3	1	8
Quebec	11	34	9	54
Ontario	4	22	14	40
Manitoba	—	3	—	3
Saskatchewan	—	1	—	1
Alberta	—	3	—	3
British Columbia	5	7	2	14
Canada	25	77	26	128

Note: See footnote in Table 68.

Source: Dominion Bureau of Statistics.

Table 66.
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
1921	108,644,620	800,149,296	13.58	14,665,274
1922	115,863,742	880,408,645	13.16	131,814,604
1923	140,798,453	1,002,401,467	14.05	112,955,801
1924	139,491,469	1,029,699,449	13.55	234,108,594
1925	154,555,951	1,239,554,207	12.47	361,472,800
1926	173,491,635	1,261,241,525	13.76	268,256,906
1927	176,633,728	1,210,596,998	14.59	143,924,299
1928	192,771,615	1,339,409,562	14.39	141,470,440
1929	198,287,106	1,152,416,330	17.21	— 120,650,245
1930	177,590,222	863,683,761	20.56	— 125,331,731
1931	141,170,685	587,653,440	24.02	— 28,537,926
1932	105,253,603	489,883,112	21.48	45,299,340
1933	95,750,769	529,449,529	18.09	134,269,478
1934	113,078,565	649,314,236	17.42	142,836,731
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	— 120,229,315
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	— 95,893,364
1961	1,151,297,846	5,755,512,629	20.00	124,708,688p

p: preliminary.

—: 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 68. 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
1957	128	65,940	1,419,288,324
1958	128	64,084	1,406,552,541
1959	127	65,028	1,496,620,836
1960	128	65,642	1,579,583,662

a: Number of mills operated during year.

b: Includes products other than pulp or paper.

Note: Manufacturers of moulded pulp products and of laminated, coated or impregnated papers and paperboards are classed in the Paper Goods Industry or in the Roofing Paper Industry only, unless they produce the pulp or paper used, in which case returns are made covering pulp and paper manufacture, including paper conversion, if separate returns cannot be prepared.

Source: Dominion Bureau of Statistics.

Table 69. Production by Provinces 1960

Provinces	Pulpwood† Cords*	Woodpulp Tons	Paper and Board Tons
Quebec	5,994,740	4,469,015	3,905,972
Ontario	3,849,337	2,966,587	2,550,109
British Columbia	2,163,560	2,124,556	1,150,119
Other Provinces (a)	3,032,611	1,901,331	1,316,586
Canada	15,040,248	11,461,489	8,922,786

†Apparent production. Actual production is given in Table 7.

* Rough or unpeeled wood.

a: Newfoundland, Nova Scotia, New Brunswick, Manitoba and Alberta.

Source: Dominion Bureau of Statistics.

Table 71. 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
1931	2,611,225	143,629,889	2,042,151	111,114,042
1932	2,290,767	113,873,123	1,805,130	86,323,539
1933	2,419,420	96,689,875	1,871,191	72,396,132
1934	3,069,516	120,892,225	2,454,341	87,633,721
1935	3,280,896	125,752,650	2,617,579	94,041,591
1936	3,806,710	146,354,666	3,061,174	110,861,428
1937	4,345,361	175,885,423	3,532,269	136,164,168
1938	3,249,358	151,650,065	2,545,456	112,872,776
1939	3,600,502	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	9,044,966	n.a.	6,567,134	801,009,242

a: Weight of items of export classification for which tonnage figures are available (see note accompanying Table 62). 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 70. Capital Expenditures

For the years 1948 to 1960, 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	177.2
	1,608.0

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

Source: Dominion Bureau of Statistics.

Table 72. Canadian Exports 1961

Ex gold in millions of dollars		
Wood, Wood Products, and Paper		\$1,639.3
Pulp and Paper	\$1,151.3	
Pulp	\$346.7	
Newsprint	763.1	
Other Paper	37.9	
Paper Goods	3.6	
Books and Printed Matter		5.6
Pulpwood		27.1
Planks and Boards		354.9
Other Wood Products		100.4
Agricultural and Vegetable Products		1,086.9
Wheat		661.8
Other Grains		68.8
Flour of Wheat		60.8
Alcoholic Beverages		84.8
Other Vegetable Products		210.7
Animals and Animal Products		354.0
Iron and its Products		595.2
Iron Ore		135.8
Vehicles, chiefly of Iron		48.3
Farm Implements and Machinery		79.8
Other Machinery		95.6
Engines and Boilers		39.4
Rolling Mill Products		55.8
Other Iron and Steel Products		140.5
Non-ferrous Metals and their Products		1,209.5
Chemicals and Allied Products		248.3
Non-metallic Minerals and their Products		430.5
Fibres, Textiles and Textile Products		44.7
Miscellaneous Commodities		147.1
		\$5,755.5

Source: Dominion Bureau of Statistics.

Table 73. Exports of Canadian Products to the United States

	1959	%	1960	%	1961	%
Pulp	\$ 254,049,124	8.2	\$ 256,170,127	8.7	\$ 268,949,199	8.7
Newsprint*	618,081,777	20.0	632,511,017	21.6	631,158,221	20.3
Other paper and paper products	17,744,335	.6	14,900,636	.5	13,473,728	.4
	\$ 889,875,236	28.8	\$ 903,581,780	30.8	\$ 913,581,148	29.4
Wood, wood products and paper	\$1,257,745,336	40.8	\$1,257,786,127	42.9	\$1,276,380,977	41.1
Animals and animal products	229,092,453	7.4	204,484,569	7.0	234,438,098	7.5
Non-ferrous metals and their products	641,717,517	20.8	564,909,600	19.3	550,997,924	17.7
Agricultural and vegetable products	178,421,955	5.8	174,392,059	5.9	182,524,926	5.9
Iron and its products	405,519,738	13.2	325,425,259	11.1	322,850,894	10.4
Non-metallic minerals and their products	224,182,710	7.3	248,270,269	8.5	322,550,590	10.4
Chemicals and allied products	85,910,025	2.8	92,220,429	3.1	101,009,261	3.2
Fibres, textiles and textile products	10,002,581	.3	10,951,321	.4	12,910,197	.4
Miscellaneous commodities	50,558,918	1.6	53,731,180	1.8	105,446,020	3.4
Total, excluding gold	\$3,083,151,233	100.0	\$2,932,170,813	100.0	\$3,109,108,887	100.0

*Includes mutilated newsprint valued at \$1,351,836 in 1959, \$1,280,654 in 1960 and \$1,366,700 in 1961.

The group totals for 1961 are not always comparable with those for earlier years because of extensive changes in the Export Commodity Classification as of January 1, 1961.

The figures for 1959 and 1960 have been revised to include Hawaii.

Source: Dominion Bureau of Statistics.

Table 74.

Principal Statistics by Provinces 1960

Provinces	Mills (b) 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	3,082	16,858,626	5,038,209	28,773,938	67,985,619	34,503,473
Nova Scotia	3	1,242	5,200,226	1,227,480	8,826,938	21,201,770	11,119,946
New Brunswick	8	4,179	20,725,618	9,484,353	45,466,314	107,614,677	53,346,327
Quebec	54	26,882	139,622,200	46,156,269	249,979,281	601,216,411	305,912,529
Ontario	40	20,318	106,235,263	32,674,167	212,355,848	478,256,479	232,568,350
Manitoba, Saskatchewan and Alberta	7	1,244	6,433,293	2,737,256	17,037,908	45,720,777	25,449,550
British Columbia	14	8,695	49,334,620	13,841,620	94,437,237	256,731,375	148,646,669
Canada	128	65,642	344,409,846	111,159,354	656,877,464	1,578,727,108	811,546,844

(a) Woods workers not included.

(b) See footnote in Table 68.

Source: Dominion Bureau of Statistics.

Table 75.

Ten Leading Canadian Manufacturing Industries 1960

	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	1,578,727 1	811,547 1	344,410 1	65,642 1
Smelting and Refining	1,495,178* 2	507,530 2	153,682 3	29,708 4
Petroleum Refining	1,148,943* 3	263,252 5	80,051 10	13,400 10
Slaughtering and Meat Packing	1,058,440 4	209,474 8	115,045 7	25,946 7
Motor Vehicles	970,330 5	338,340 4	149,748 5	27,683 5
Iron and Steel Mills	756,456 6	359,429 3	193,893 2	36,472 3
Sawmills (including Shingle Mills)	591,608* 7	252,151 6	153,085 4	46,607 2
Industrial Chemicals	449,983 8	239,141 7	86,443 8	16,371 9
Pasteurizing Plants	401,743 9	136,109 10	83,931 9	21,831 8
Miscellaneous Machinery and Equipment, n.e.s.	393,932 10	217,657 9	123,792 6	27,606 6

* Gross value of production.

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 76.

Domestic Trade 1960

	Pulp and Paper	Paper
Gross value of production	\$1,579,583,662	\$1,167,040,412
Exports	1,123,823,860	794,554,536
For domestic market	\$ 455,759,802	\$ 372,485,876
Per cent of production retained for domestic use	28.9	31.9

Source: Dominion Bureau of Statistics.

Table 77.

Exports 1961

	Value	%
Ex gold in millions of dollars		
Forest products	\$1,639.3	28.48
Agricultural & vegetable products	1,086.9	18.89
Animals & animal products	354.0	6.15
All others	2,675.3	46.48
	\$5,755.5	100.00

Source: Dominion Bureau of Statistics.

Table 78.

Payrolls and Weekly Earnings
in Important Industries
1960

Industry	Average Number of Employees	Average Weekly Payrolls	Average Weekly Earnings
Pulp & Paper	65,885	\$6,513,461	\$98.82
Non-ferrous metal products*	55,242	4,972,561	90.02
Chemical products**	54,571	4,961,691	90.92
Meat products	30,364	2,378,202	78.32
Shipbuilding & repairing	19,155	1,558,722	81.38
Automobiles, parts & accessories	47,745	4,478,013	93.79
Primary iron & steel	36,503	3,697,122	101.32
Rubber products	20,035	1,602,970	79.98
Aircraft & parts	28,066	2,624,733	93.50

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 79.

Pulp and Paper, and Metal Mining 1961

Gross value of pulp and paper production	\$1,650,000,000e
Gold production	156,851,060
Production of other metallics	1,240,163,029

e: Canadian Pulp and Paper Association estimate.

Source: Dominion Bureau of Statistics.

Table 80.

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
1931	26,669	3,170	7,858,839	2,479	23,499	26,933,174	1,146	40.2	67.9	34,792,013
1932	24,561	3,112	7,240,125	2,327	21,449	21,108,003	984	34.5	61.7	28,348,128
1933	24,037	2,920	6,464,510	2,214	21,117	20,193,032	956	33.5	58.8	26,657,542
1934	26,993	3,174	7,148,763	2,252	23,819	26,158,280	1,098	38.5	59.6	33,307,043
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	20,959,090	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
1957	65,940	11,495	70,361,212	6,121	54,445	237,266,637	4,356	152.7	121.9	307,627,849
1958	64,084	11,594	74,253,570	6,404	52,490	233,162,045	4,442	155.8	125.1	307,415,615
1959	65,028	11,702	77,510,375	6,624	53,326	244,800,929	4,591	161.0	126.5	322,311,304
1960	65,642	12,451	84,844,005	6,814	53,190	259,565,841	4,880	171.1	128.0	344,409,846

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.

Source: Dominion Bureau of Statistics.

Table 81. 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
1931	630,176,540	26,669	24,630	34,792,013
1932	597,550,013	24,561	24,329	28,348,128
1933	559,265,544	24,037	23,267	26,657,542
1934	554,973,891	26,993	20,560	33,307,043
1935	545,572,938	27,836	19,600	35,893,313
1936	536,073,034	29,478	18,186	39,440,074
1937	570,352,287	33,205	17,177	48,757,795
1938	594,908,222	30,943	19,226	42,619,311
1939	597,908,918	31,016	19,277	44,737,379
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
1957	3,233,800,000	65,940	49,042	307,627,849
1958	3,362,700,000	64,084	52,473	307,415,615
1959	3,548,400,000	65,028	54,567	322,311,304
1960	3,725,000,000e	65,642	56,747	344,409,846

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 1959, the 89 pulp and paper companies covered had total assets of \$3,548,400,000 and current liabilities of \$392,200,200.

e: Estimate.

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

Table 82.

Estimated Wages Paid and Numbers Employed in 1960

Wages	
Mill Workers	\$344,409,846
Woods Workers*	240,028,000
\$584,437,846	
Workers	
Seasonal woods workers on manufacturers' limits east of the Rockies	126,000
Permanent woods workers on manufacturers' limits east of the Rockies	5,000
Woods workers in B.C., mostly permanent	9,900
Woods workers cutting wood for sale to manufacturers	99,000
Mill Workers, permanent	239,900
	65,642
	305,542

* Includes an estimated \$80,299,000 to the 99,000 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 83. Principal Expenditures 1960

Transportation(e)	\$250,000,000†
Chemical & mill supplies*	185,667,057
Fuel*	57,927,840
Electricity*	53,231,514
Fibre and fibre stock*	16,485,758
Purchased pulpwood**	40,149,000
Purchased wood-waste (for pulping)*	31,091,512
Foods(e)	17,833,600
Fodder(e)	1,350,000
Taxes (e)	235,000,000
Paid for work done on materials supplied*	3,336,651
Wages, including woods workers**	584,437,846
	\$1,476,510,778†

e: Canadian Pulp and Paper Association estimate.

* Dominion Bureau of Statistics figures.

** Expenditures for purchased pulpwood in 1960 totalled \$120,448,000 from which has been deducted \$80,299,000 covering the estimated wages paid in harvesting this wood. The latter figure is included in the \$584,437,846 shown as wages. See also Table 82.

† 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 84. Car Loadings

	1960 Carloads	%	1961 Carloads	%
Pulp and paper	238,655	6.57	237,944	6.87
Pulpwood	125,010	3.44	116,332	3.36
	363,665	10.01	354,276	10.23
Other forest products	290,507	7.99	283,749	8.19
	654,172	18.00	638,025	18.42
Agricultural products				
Grain	336,809	9.26	360,212	10.40
Grain Products	113,249	3.12	107,629	3.11
Other Agricultural Products	70,567	1.94	67,754	1.95
	520,625	14.32	535,595	15.46
Animal Products	73,870	2.03	72,458	2.09
Mineral Products				
Coal	180,698	4.97	173,585	5.01
Coke	21,457	.59	20,217	.58
Ores and Concentrates	383,299	10.55	358,735	10.36
Iron and Steel: pig, bloom and ingots	14,342	.39	8,612	.25
Non-ferrous Metals: matte, pig and ingots	32,647	.90	35,170	1.01
Agricultural Implements, Tractors, Automobiles, Trucks and Parts	78,219	2.15	62,030	1.79
Machinery, Boilers, Castings, and other Iron and Steel Products	70,056	1.93	67,851	1.96
Crude Petroleum, Gasoline, Fuel Oil and other Petroleum Products	296,013	8.14	273,419	7.89
Sand, Gravel, Stone, Cement, Plaster, Lime, Brick, Tile, Sewer and Drain Pipes, and other Mineral Products	373,812	10.28	350,771	10.13
	1,450,543	39.90	1,350,390	38.98
Other Products				
Sugar, Canned Goods, Beverages	60,490	1.66	58,737	1.69
Fertilizers	43,695	1.20	44,265	1.28
Miscellaneous	401,655	11.05	415,575	12.00
	505,840	13.91	518,577	14.97
Merchandise, L.C.L.	430,363	11.84	349,073	10.07
Grand Total	3,635,413	100.00	3,464,118	100.00

Note: Car loadings of pulp and paper and pulpwood in 1961 were equivalent to 650 cars and 317 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 seven trains of 100 cars daily. Annual loadings of pulpwood for the mills and of finished products would thus fill a train 2,221 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 85. Purchases of Mill Supplies 1960

Chemicals, minerals, size, glue, dyes, etc.	\$ 76,008,785
Pulp stones	847,708
Machine clothing (woollen felts)	16,208,734
Miscellaneous supplies	64,585,067
Mill wrapping and packing material	17,165,769
Wire mesh (fourdrinier and cylinder)	11,698,702
	\$186,514,765

Source: Dominion Bureau of Statistics.

Table 86. Fuel Purchased 1960

Quebec	\$16,206,423
Ontario	17,809,561
British Columbia	7,839,955
Newfoundland, New Brunswick, Nova Scotia, Manitoba, Saskatchewan and Alberta	11,375,575
	\$53,231,514

Source: Dominion Bureau of Statistics.

Table 87. Electricity Purchased 1960

Quebec	\$29,949,846
Ontario	14,864,606
British Columbia	6,001,665
Newfoundland, New Brunswick, Nova Scotia, Manitoba, Saskatchewan and Alberta	7,111,723
	\$57,927,840

Note: In addition to purchased electricity the pulp and paper mills own hydro-electric plants which furnished 5,028,062,000 kilowatt hours of electricity to the mills in 1960.

Source: Dominion Bureau of Statistics.

Table 88. Power Utilization

	in 000's of kwh including off-peak power		
	1958	1959	1960
Supply of electric energy:			
Generated by Utilities	75,953,132	83,048,885	91,516,778
Generated by Industries for own use:			
Pulp and Paper industry	4,417,401	4,753,454	5,028,062
Other industries	17,115,091	16,826,817	17,833,093
Imported from United States	245,062	512,002	356,878
Total Supply	97,730,686	105,141,158	114,734,811
Less:			
Exports to United States	4,074,513	4,580,619	5,495,572
Line losses, free service and unaccounted for	8,796,110	9,646,582	10,257,798
Consumed in Canada	84,860,063	90,913,957	98,981,441
Consumption:			
Pulp and Paper industry	18,287,601	19,371,129	20,867,744
Other manufacturing industries	33,603,326	35,269,301	n.a.
Mining companies	4,649,257	4,809,849	n.a.
Commercial customers	10,494,961	11,770,555	n.a.
Residential and farm	17,290,984	19,007,111	20,391,857
Street lighting	554,733	602,930	657,141
Residual error of estimate	-20,799	+83,082	nil

n.a.: Not available.

Note: The power consumption of the pulp and paper mills accounts for about 34 per cent of all the power generated for industry. Of the power generated by industry for its own use, the pulp and paper mills accounted for 20.5 per cent in 1958, 20.0 per cent in 1959 and 22.0 per cent in 1960. Of the total consumption of electricity in Canada, the pulp and paper mills accounted for 22.8 per cent in 1958, 21.3 per cent in 1959 and 21.1 per cent in 1960. There are several single paper mills which alone consume more electric power than all the domestic customers in Montreal combined, indeed which use more power than is required to provide light for the city and all its residents.

Source: Dominion Bureau of Statistics.

Table 89.

Operations and Mills

	No. of mills 1960
Groundwood, bleached	8
Groundwood, unbleached	69
Mechanical screenings	12
Soda pulp	1
Dissolving and Special Alpha (Sulphite and Sulphate)	6
Dissolving and Special Alpha screenings	1
Bleached sulphite (paper pulp)	15
Unbleached sulphite (strong)	13
Unbleached sulphite (news grade)	31
Sulphite screenings	16
Sulphate pulp, bleached (paper pulp)	14
Sulphate pulp, semi-bleached	10
Sulphate pulp, unbleached	16
Sulphate screenings	5
Semi-chemical pulp	5
Defibrated and exploded pulps	12
All other wood pulp	1
Newsprint	40
Groundwood printing and specialty papers	12
Book paper	11
Fine papers	14
Miscellaneous fine papers	8
Tissue paper other than sanitary	12
Sanitary paper	14
Special industrial papers	7
Wrapping papers	22
Building papers	13
Paperboard	43
Building boards	13
Wet machine boards	2
Paper products	43

Note: Most mills make two or more products. There were in all 128 active mills in 1960. (See footnote in Table 68).

Source: Dominion Bureau of Statistics.

Table 90.

Imports of Wood-Pulp and Paper and Paper Goods

	Wood-pulp Tons	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
1931	14,418	592,904	9,585,986
1932	13,420	462,649	6,790,363
1933	5,708	177,289	5,345,603
1934	8,205	257,782	5,503,081
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	75,725,310

a: Quantity not available.

Source: Dominion Bureau of Statistics.

Table 91.

Principal Statistics of the
Paper Converting Industries

	1959*	1960
Number of establishments	433	453
Number of employees	30,066	29,791
Salaries and wages paid	\$111,403,929	\$114,214,419
Cost of fuel and electricity	4,825,757	4,845,944
Cost of materials used	314,852,950	322,995,175
Selling value of factory shipments	541,700,892	549,380,089
Value added by manufacture	n.a.	224,357,528

*Figures for 1959 have been revised for comparison with those of 1960 based on a new classification of establishments.

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 43 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. Factory shipments of converting plants operated by paper-mills were valued at \$75,175,961 in 1959 and \$76,355,580 in 1960.

Source: Dominion Bureau of Statistics.

Table 92.

Gross Value of Canadian Production

	1959 '000 \$	1960 '000 \$		1959 '000 \$	1960 '000 \$
PRIMARY PRODUCTION:			Primary Metal Industries.		
Agriculture	3,802,887	3,873,660e	*Smelting and refining	2,704,051	2,742,520
Wheat	545,583	767,667e	Iron and steel mills	1,307,997	1,495,178
All grains (including wheat)	1,149,967	1,398,301e		902,199	756,456
Forestry	2,774,106	2,976,828	Metal Fabricating Industries (ex. Machinery and Transportation Industries)		
Operations in the woods	715,716	806,493	Metal stamping, pressing and coating industry	1,415,334	1,432,905
Fisheries	203,040	198,005	*Fabricated structural metal industry	330,267	349,080
Trapping	9,707	12,360	Wire and wire products manufacturers	236,364	233,166
Mining	3,359,315	3,516,639		204,197	200,112
Mineral production	2,409,021	2,492,510	Machinery Industries		
Electric Power	767,318	817,134	(ex. Electrical Machinery)	626,104	642,459
Less Duplication (forest products on farms)	-64,899	-48,879	Agricultural implement industry	166,197	152,127
			Miscellaneous machinery and equipment	380,063	393,932
Total, Primary Production	10,851,474	11,345,747e	Transportation Equipment Industries		
SECONDARY PRODUCTION:			Motor vehicle manufacturers	2,028,871	2,000,689
Manufactures	23,295,210	23,738,491	*Aircraft and parts manufacturers	928,950	970,330
Construction	7,077,383	6,886,255	*Motor vehicle parts and accessories manufacturers	327,534	308,190
Less Duplication in Manufactures	-3,699,795	-3,981,722	*Railway rolling stock industry	274,675	286,872
			*Shipbuilding and repair	271,201	212,077
Total, Secondary Production	26,672,798	26,643,024		144,236	148,295
(See Notes below)			Electrical Products Industries		
GRAND TOTAL	37,524,272	37,988,771e	Manufacturers of electrical industrial equipment	1,166,451	1,167,000
			Communications equipment manufacturers	238,942	236,910
			Manufacturers of major appliances (elec. & non-elec.)	201,306	226,480
				214,550	204,088
			Non-metallic Mineral Products Industries		
			Cement manufacturers	672,351	647,462
			*Ready-mix concrete manufacturers	99,741	96,770
			Concrete products manufacturers	97,741	101,200
			*Clay products manufacturers (from domestic clay)	111,301	107,445
				42,515	38,034
			*Lime manufacturers	22,131	11,875
			Abrasive manufacturers	44,377	48,569
			Petroleum and Coal Products Industries		
			*Petroleum refining	1,164,297	1,197,968
				1,121,398	1,148,943
			Chemical and Chemical Products Industries		
			Manufacturers of industrial chemicals	1,316,357	1,373,467
			Paint and varnish manufacturers	437,012	449,983
			Manufacturers of soap and cleaning compounds	147,693	147,476
			Manufacturers of pharmaceuticals and medicines	135,406	139,279
			Plastics and synthetic resins	159,049	164,897
			Textile Industries		
			Synthetic textile mills	159,999	128,658
			Cotton yarn and cloth mills	800,861	810,523
				204,526	221,937
			Knitting Mills	217,913	209,503
			Clothing Industries	189,268	198,160
			Women's clothing factories	759,219	770,468
			Men's clothing factories	261,591	268,524
				262,245	261,279
			Rubber Industries		
			Rubber tire and tube manufacturers	347,798	323,053
				201,698	175,189
			Leather Industries		
			Shoe factories	275,623	268,114
				161,460	160,543
			Tobacco Products Industries		
			Tobacco products manufacturers	324,564	334,414
				212,360	217,888
			Miscellaneous Manufacturing Industries		
			Instrument and related products manufacturers	503,881	538,936
				97,310	103,375
			Total	23,295,210	23,738,491

*Industries included in both primary and secondary production.

e: Preliminary estimate.

Notes: Manufactures statistics for 1960 are based on the new Standard Industrial Classification adopted by the Dominion Bureau of Statistics as of the first of that year. Most of the major industrial groups and of the individual industries have also been renamed. For purposes of comparison the 1959 figures have been recompiled on the new basis.

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.

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 65, 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.

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.

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.

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 over-lapping. For example, the products of pulp and paper mills and sawmills 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 is eliminated from the grand total.

Source: Dominion Bureau of Statistics.

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Reference tables



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