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Annual Industry Report

Iron and Steel and Their Products Group

THE SHIPBUILDING INDUSTRY, 1947

The value of production from Canadian shipyards amounted to \$110,131,129 in 1947 compared with \$91,851,460 in 1946 and \$204,594,323 in 1945.

The 74 shipyards which were included in this industry in 1947 employed an average of 21,119 workers for the year and paid out \$46,457,707 in salaries and wages, \$37,263,603 for materials for shipbuilding and \$1,653,601 for fuel and electricity. The 24 establishments on the west coast with production at \$28,598,313 accounted for 26 per cent of the total for Canada and the 10 yards in Quebec with output at \$49,338,677 accounted for 45 per cent.

This industry includes the establishments which were occupied in making commercial or naval vessels and also the yards which did ship repair work or were engaged in outfitting ships for delivery.

Table 1 - PRINCIPAL STATISTICS OF THE SHIPBUILDING INDUSTRY, 1938-1947

Year	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1938	41	3,596	4,813,614	296,635	4,435,966	11,171,416
1939	43	3,491	4,950,179	298,877	3,814,321	11,234,967
1940	47	9,707	15,753,467	575,248	18,633,954	44,690,937
1941	65	21,240	32,341,826	1,111,696	41,471,884	109,326,883
1942	79	50,132	92,188,814	2,359,123	73,325,151	242,138,127
1943	87	75,847	153,595,336	3,428,518	123,317,336	376,560,974
1944	94	67,076	138,967,246	3,610,913	101,056,440	329,299,643
1945	89	48,118	99,470,593	2,653,650	60,294,253	204,594,323
1946	79	20,246	40,975,731	1,400,316	25,915,348	91,851,460
1947	74	21,119	46,457,707	1,653,601	37,263,603	110,131,129

NOTE: Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1946 and 1947

Province	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
<u>1946</u>						
Nova Scotia	23)	4,649	8,806,482	360,681	4,013,162	18,903,452
New Brunswick	2)					
Quebec	10	6,785	13,505,617	463,523	14,559,194	31,382,338
Ontario	20	2,521	4,921,252	206,244	2,276,315	9,791,076
British Columbia and Yukon	24	6,291	13,742,380	369,868	5,066,679	31,774,594
CANADA ..	79	20,246	40,975,731	1,400,316	25,915,348	91,851,460



Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1946 and 1947 (Concluded)

Province	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
<u>1947</u>						
Nova Scotia	23)	3,979	8,881,779	384,172	4,160,093	18,815,906
New Brunswick	2)					
Quebec	10	9,321	20,904,188	690,450	24,262,136	49,338,677
Ontario	15	2,463	4,992,593	219,565	5,382,146	13,378,233
British Columbia and Yukon	24	5,356	11,679,347	359,414	3,459,228	28,598,313
CANADA ..	74	21,119	46,457,707	1,653,601	37,263,603	110,131,129

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1946 and 1947

Province	Average Number of Employees					Salaries	Wages	Total Salaries and wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
<u>1946</u>								
Nova Scotia and New Brunswick	228	83	4,267	71	4,649	813,380	7,993,102	8,806,482
Quebec	485	180	6,032	88	6,785	1,762,415	11,743,202	13,505,617
Ontario	192	83	2,235	11	2,521	716,402	4,204,850	4,921,252
British Columbia and Yukon	525	152	5,607	7	6,291	1,828,546	11,913,834	13,742,380
TOTAL ...	1,430	498	18,141	177	20,246	5,120,743	35,854,988	40,975,731
<u>1947</u>								
Nova Scotia and New Brunswick	232	81	3,604	62	3,979	831,805	8,049,974	8,881,779
Quebec	566	186	8,517	52	9,321	1,987,193	18,916,995	20,904,188
Ontario	215	77	2,152	19	2,463	787,682	4,204,711	4,992,393
British Columbia and Yukon	478	128	4,742	8	5,356	1,694,120	9,985,227	11,679,347
TOTAL ...	1,491	472	19,015	141	21,119	5,300,800	41,156,907	46,457,707

Table 4 - WAGE-EARNERS, BY MONTHS, 1946 and 1947 (On the last work-day of each month)

Month	1946			1947		
	Male	Female	Total	Male	Female	Total
January	20,895	215	21,110	16,990	140	16,530
February	20,065	209	20,274	16,624	132	16,756
March	20,513	199	20,712	17,668	134	17,802
April	19,868	190	20,058	18,854	139	18,993
May	18,458	189	18,647	19,968	140	20,108
June	17,545	162	17,707	19,830	142	19,972
July	17,295	163	17,458	20,021	145	20,166
August	17,066	159	17,225	20,440	145	20,585
September	16,433	170	16,603	20,306	145	20,451
October	16,910	174	17,084	20,341	140	20,481
November	16,790	173	16,963	19,997	140	20,137
December	15,782	147	15,929	17,741	139	17,880
AVERAGE	18,141	177	18,318	19,015	141	19,156

Table 5 - FUEL AND ELECTRICITY USED, 1946 and 1947

Kind	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian ..	short ton	16,939	160,684	7,388	81,224
Imported ..	short ton	14,471	140,897	19,902	202,534
Anthracite coal	short ton	767	10,496	604	10,361
Coke	short ton	1,873	29,599	1,585	25,441
Gasoline	Imp.gal.	324,819	92,570	441,657	132,681
Kerosene	Imp.gal.	56,005	11,415	84,709	19,582
Fuel oil	Imp.gal.	3,122,673	221,771	3,429,933	371,191
Wood	cord	933	7,858	1,178	8,675
Gas -- Manufactured	M cu.ft.	42,220	35,948	35,780	24,817
Natural	M cu.ft.	139	129	...	...
Electricity purchased	K. W. H.	56,784,168	671,163	63,125,400	712,918
Other fuel .....	...	...	17,786	...	64,177
TOTAL .....	...	...	1,400,316	...	1,653,601
Electricity generated for own use	K. W. H.	188,437	...	254,000	...

Table 6 - POWER EQUIPMENT, 1946 and 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 6</u>				
Steam engines and steam turbines	47	8,264	5	340
Diesel engines	16	1,323	...	...
Gasoline, gas and oil engines (except diesel) ..	77	4,685	1	20
Total primary equipment	140	14,272	6	360
Electric motors run by purchased power	5,002	83,189	100	2,855
TOTAL	5,142	97,461	106	3,215
Electric motors run by power generated by above primary units	8	266	...	...
Stationary power boilers	62	8,510	6	1,141
Motor-generator sets	215	10,179	77	1,565
<u>1 9 4 7</u>				
Steam engines and steam turbines	44	5,504	5	323
Diesel engines	24	1,718	...	...
Gasoline, gas and oil engines (except diesel) ..	94	5,992	1	20
Total primary equipment	162	13,214	6	343
Electric motors run by purchased power	4,608	80,921	82	2,429
TOTAL	4,770	94,135	88	2,772
Electric motors run by power generated by above primary units	18	416	...	...
Stationary power boilers	64	7,099	4	413
Motor-generator sets	220	10,044 k.v.a.	55	1,127 k.v.a.

Table 7 - MATERIALS USED, 1946 and 1947

Material	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Iron -					
Pig iron	net ton	939	30,709	974	41,658
Iron castings of all kinds	net ton	2,097	387,533	2,323	450,383
Steel (other than special alloy) -					
Steel castings	net ton	1,590	421,882	1,362	461,439
Bars	net ton	4,297	306,898	3,935	306,691
Forgings	net ton	...	821,541	...	1,237,971
Plates - Boiler	net ton	3,303	229,214	3,705	299,735
Other	net ton	41,332	3,190,962	47,384	3,482,293

Shipbuilding

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Table 7 - MATERIALS USED, 1946 and 1947 (Concluded)

Material	Unit of measure	1946		1947	
		Quantity	Cost at works	Quantity	Cost at works
Steel (other than special alloy) - (concluded)					
Shafting	net ton	204	39,696	764	201,055
Sheets - Plain	net ton	1,032	105,734	987	100,151
Galvanized	net ton	685	74,396	548	72,594
Tinplate	net ton	...	3,405	...	4,911
Strip	net ton	124	11,280	338	34,124
Structural shapes	net ton	12,274	856,730	16,438	1,234,553
Boiler tubes	net ton	...	61,215	623	124,607
Wire	net ton	323	46,494	249	32,894
Alloy steel in all forms .....	...	...	165,280	...	75,267
Scrap iron and steel of all kinds	net ton	5,488	81,471	1,347	35,634
Other iron and steel .....	...	...	85,478	...	1,352,562
Non-ferrous metals -					
Aluminum	pound	64,783	22,121	609,773	161,724
Brass and bronze	pound	1,266,591	349,798	2,297,397	532,617
Copper	pound	493,000	132,848	492,868	148,929
Lead	pound	280,557	25,605	122,266	15,328
Tin	pound	851	181	10	7
Zinc	pound	344,635	28,148	354,108	42,970
Babbitt metals and solders	pound	152,300	79,649	145,563	87,497
Other metals .....	...	...	7,554	...	7,859
Other materials and supplies -					
Iron and steel pipe and fittings	...	...	1,249,977	...	1,839,006
Lumber	M ft.b.m.	22,344	1,697,453	20,540	2,077,219
Timber	M ft.b.m.	2,720	161,604	3,011	169,845
Oxygen	cu.ft.	47,396,806	368,635	64,707,423	586,373
Acetylene	cu.ft.	9,678,019	196,796	11,347,094	232,146
Engines purchased .....	...	...	454,350	...	3,747,153
Boilers purchased .....	...	...	91,000	...	281,433
Electrical equipment purchased ..	...	...	918,813	...	1,637,951
All other materials .....	...	...	13,210,898	...	16,147,024
TOTAL .....	...	...	25,915,348	...	37,263,603

Table 8 - PRODUCTS MADE IN THE SHIPBUILDING INDUSTRY, 1946 and 1947

	1946			1947		
	No. of vessels delivered	Gross tonnage	Value of deliveries	No. of vessels delivered	Gross tonnage	Value of deliveries
Naval vessels, all types .....	...	...	14,014,487	...	...	5,115,445
Commercial Vessels -						
Cargo and Cargo-Passenger vessels	36	60,225	24,680,276	28	76,321	33,060,034
Dredges	1	...	8,220	1	...	8,444
Ferries	5	...	574,429	6	12,409	7,466,586
Fishing boats	79	...	697,224	63	1,895	733,197
Scows and barges	37	...	800,768	28	...	846,338
Tugs	97	...	3,046,321	89	...	1,511,807
Small craft - with power	170	...	818,857	118	...	314,816
without power	64	...	100,787	70	...	60,234
All other commercial vessels .....	...	...	8,590	8	...	125,097
TOTAL COMMERCIAL VESSELS	...	...	30,735,472	411	...	44,126,553

Shipbuilding

Table 8 - PRODUCTS MADE IN THE SHIPBUILDING INDUSTRY, 1946 and 1947 (Concluded)

	1 9 4 6	1 9 4 7
	Value	Value
Work done during year on undelivered vessels	25,535,274	33,969,893
Repairs done to vessels during the year	28,644,712	42,077,069
Miscellaneous products (boilers, engines, etc.) .	8,303,566	7,629,829
TOTAL GROSS PRODUCTION	107,233,511	132,918,789
Less value of work done in previous year on vessels delivered in current year	15,382,051	22,787,660
TOTAL NET PRODUCTION	91,851,460	110,131,129

Table 9 - VALUE OF SHIPBUILDING, 1937-1947

Year	Value of ships delivered dur- ing the year	Less value of work done in previous year on ships delivered in current year	Add value of work done on ships not com- pleted at year end	Total value of new construction	Value of ship repairs
1937	1,030,392	204,959	780,572	1,606,005	6,125,304
1938	4,456,186	800,901	133,107	3,788,392	6,099,280
1939	984,047	135,919	1,495,631	2,343,759	7,744,386
1940	11,181,439	616,524	18,630,604	29,195,519	13,078,322
1941	55,119,904	17,997,998	48,425,609	85,547,515	19,900,616
1942	169,860,376	40,713,154	79,566,438	208,713,360	27,734,479
1943	305,933,303	69,846,518	98,384,791	334,471,576	34,382,613
1944	261,566,009	85,355,741	68,759,297	244,969,565	63,104,439
1945	165,340,341	64,610,569	44,531,776	145,261,548	44,337,794
1946	44,749,959	15,382,051	25,535,274	54,903,182	28,644,712
1947	49,241,998	22,787,660	33,969,893	60,424,231	42,077,069

* - The large discrepancy between these figures is due chiefly to the cancellation of wartime contracts and to the fact that several of the yards engaged in such work ceased operations during the year and no reports were received for inclusion in the 1946 totals.

LIST OF FIRMS IN THE SHIPBUILDING INDUSTRY, 1947

Name of Firm	Location of Plant
<u>Nova Scotia -</u>	
Atlantic Shipyards Ltd.	Meteghan
Boudreau, Charles M.	Upper Wedgeport
Collings, Wm., & Sons, Limited	711 Barrington St., Halifax
Halifax Shipyards, Limited	Halifax and Dartmouth
Hogan T., & Company	121 Lower Water St., and 298 Upper Water St., Halifax,
Industrial Shipping Co. Ltd.,	Mahone Bay
Leary's Shipyards	Dayspring
McKay, W. C., & Sons, Limited	Shelburne
Mahone Bay Shipbuilding Co., Limited	Mahone Bay
Murray Steelcraft	Queen St., Pugwash
North Sydney Marine Railway Company, Limited	North Sydney
Pictou Foundry & Machine Company Limited	Front St., Pictou
Pinauds', Walter, Yacht Yard	Baddeck
Port Hawkesbury Marine Railway Co. Ltd.	Port Hawkesbury
Purdy Brothers, Limited	67 Upper Water St., Halifax

LIST OF FIRMS IN THE SHIPBUILDING INDUSTRY, 1947

Name of Firm	Location of Plant
<u>Nova Scotia - (concluded)</u>	
Shelburne Shipbuilders, Ltd.	Dock St., Shelburne
Smith & Rhuland	Lunenburg
Sweeney, W. Laurence	Water St., Yarmouth
Sydney Engineering & Dry Dock Co. Ltd.	Esplanade, Sydney
Theriault, A. F.	Meteghan River, Digby County
Thompson Bros. Machinery Co. Ltd.	Water St., Liverpool
Wagstaff & Hatfield	Port Greville
Weagle, Hugh D., Boat Builder	Ft. Canal St., Dartmouth
<u>New Brunswick -</u>	
St. John Dry Dock & Shipbuilding Co., Limited	Bayside Drive, East Saint John
St. John Iron Works, Ltd.	Vulcan St., Saint John
<u>Quebec -</u>	
Canadian Vickers, Limited	4970 Notre Dame St. E., Montreal
Chantier Maritime de St. Laurent Ltee.	St. Laurent
Davie Shipbuilding & Repairing Co. Ltd.	Lauzon
Davie, Geo. T. & Sons, Limited	Lauzon
Marine Industries, Limited	Sorel
MacQueen, Donald	831 Wellington St., Montreal
Montreal Dry Docks, Limited	1151 Mill St., Montreal
Norwegian Woodcraft Ltd.	2255 Westhill Ave., Montreal
St. Lawrence Dry Docks Limited	Rear 2050 Notre Dame St. W., Montreal
St. Lawrence Metal & Marine Works Inc.,	75 Henderson St., Quebec
<u>Ontario -</u>	
Canadian Dredge & Dock Co., Limited	Wellington St., Kingston
Canadian Shipbuilding & Engineering Limited	Kingston
Collingwood Shipyards Limited, The	Collingwood
Erieau Shipbuilding & Drydock Co.	Erieau
Grant, J. A., & Sons	Port Colborne
Greavette Boats, Limited	Humber Bay and Gravenhurst
Heighton, H. E. & Son	130 Mellanby Ave., Humberstone
Mac-Craft Co. Limited	Sarnia
Midland Shipyards, Limited	Midland
Muir Bros. Dry Dock Company, Limited	Port Dalhousie
Port Weller Dry Docks Limited	St. Catharines
Port Arthur Shipbuilding Co., Limited	Port Arthur
Russell Brothers, Limited	Owen Sound
Taylor, J. & J., & Sons, Ltd.	Ft. of Bathurst St., Toronto
Toronto Dry Dock Company Limited	170 Villiers St., Toronto
<u>British Columbia and Yukon</u>	
Beach Avenue Shipyards (1932) Ltd.	944 Beach Ave., Vancouver
Benson, A. C., Shipyard, Ltd.	1705 W. Georgia St., Vancouver
B. C. Marine Engineers & Shipbuilders, Ltd.	Ft. Victoria Drive, Vancouver
British Columbia Packers Ltd., (Celtic Shipyards)	Foot Blenheim St., Vancouver
British Yukon Navigation Co. Ltd.	Whitehorse, Yukon
Burrard Dry Dock Company Limited	Esplanade St. E., North Vancouver
Burrard Shipyard & Engineering Works, Limited	1729 W. Georgia St., Vancouver
Burrard Iron Works, Ltd.	235 Alexander St., Vancouver
Canadian Pacific Railway Company	Nelson-Nakusp, Rosebery & Okenagan Landing
Dawe Marine Ltd.	650 Denman St., Vancouver
Fosters Shipyard	419 Bay St., Victoria
Nelson Bros. Fisheries Ltd.	2374 Duke Rd., Queensboro, New Westminster
Newcastle Shipbuilding Ltd.	Nanaimo

LIST OF FIRMS IN THE SHIPBUILDING INDUSTRY, 1947 (concluded)

Name of Firm	Location of Plant
<u>British Columbia and Yukon -(concluded)</u>	
Pacific Drydock Company Limited	171 W. Esplanade, N. Vancouver
Point Hope Shipyards, Limited	Victoria
Prince Rupert Dry Dock and Shipyard	Prince Rupert
Star Shipyard (Mercers) Ltd.	61 Duncan St., New Westminster
Sterling Shipyards, Ltd.	North End, Victoria Drive, Vancouver
Vancouver Shipyards Ltd.	1881 W. Georgia St., Vancouver
Victoria Machinery Depot Co., Ltd.	Dallas Road and 343 Bay St., Victoria
West Coast Shipbuilders, Ltd.	205 West 1st Ave., Vancouver
West Coast Salvage & Contracting Co. Ltd.	1199 W - 6th Ave., Alder St., Vancouver
Wright Shipyards	Broughton St., Vancouver
Yarrows, Limited	Esquimalt

NOTE: Establishments occupied chiefly in making rowboats, canoes and small vessels of five tons or less are included in the "Boatbuilding Industry" which is covered in a separate report.



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