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CANADA



THE SHIPBUILDING INDUSTRY 1954



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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I—General Review of the Manufacturing Industries, \$1.50
- II—The Manufacturing Industries of Canada, (7 sections, as follows):
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 25¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 25¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada,
Regional Distribution, 75¢
- III—Foods and Beverages
- IV—Tobacco and Tobacco Products
- V—Rubber Products
- VI—Leather Products
- VII—Textile Mills
- VIII—Knitting Mills
- IX—Clothing
- X—Wood and Paper Products
- XI—Printing Trades
- XII—Iron and Steel Products
- XIII—Transportation Equipment
- XIV—Non-ferrous Metal Products
- XV—Electrical Apparatus and Supplies
- XVI—Non-metallic Mineral Products
- XVII—Products of Petroleum and Coal
- XVIII—Chemicals and Allied Products
- XIX—Miscellaneous Manufactures

The present report belongs in Part XIII, Transportation Equipment. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A—General Review, 25¢
- B—The Aircraft and Parts Industry, 25¢
- C—The Bicycle Manufacturing Industry, 25¢
- D—The Boat Building Industry, 25¢
- E—The Motor Vehicles Industry, 25¢
- F—The Motor Vehicle Parts Industry, 25¢
- G—The Railway Rolling Stock Industry, 25¢
- H—The Shipbuilding Industry, 25¢
- I—The Miscellaneous Transportation Equipment Industry, 25¢

THE SHIPBUILDING INDUSTRY

1954

The value of production from Canadian shipyards amounted to \$156,606,890 in 1954 compared with \$183,215,310 in 1953 and \$159,057,949 in 1952.

The 76 shipyards which were included in 1954 employed 19,356 workers during the year and paid out \$65,256,543 in salaries and wages, \$56,259,981 for materials for shipbuilding and \$1,774,253 for fuel and electricity.

The 10 establishments in Quebec with production at \$70,833,679 accounted for 45 per cent of the

total for Canada and the 26 yards in British Columbia with output at \$34,040,210 accounted for 22 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. The government naval dockyards on the east and west coasts have not been included, although a considerable amount of repairs and overhauling was done at these stations.

TABLE 1. Principal Statistics of the Shipbuilding Industry, Significant Years 1929-1954, and by Provinces, 1953 and 1954

Year and province	Estab- lish- ments	Em- ployees	Earnings	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture	Gross selling value of products
	No.	No.	\$	\$	\$	\$	\$
1929	41	5,297	7,472,865	360,819	5,607,297	11,524,909	17,493,025
1933	38	2,254	2,644,396	240,961	989,661	3,291,245	4,521,867
1937	40	3,502	4,411,910	279,993	3,204,905	6,875,788	10,360,686
1939	43	3,491	4,950,179	298,877	3,814,321	7,121,769	11,234,967
1943	87	75,847	153,595,336	3,428,518	123,317,336	249,815,120	376,560,974
1946	79	20,246	40,975,731	1,400,316	25,915,348	64,535,796	91,851,460
1949	80	12,562	30,909,310	1,369,141	28,285,590	45,946,654	75,601,385
1950	76	11,454	28,356,192	1,332,569	25,242,491	37,111,496	63,676,556
1951	76	14,836	40,104,531	1,445,396	35,316,718	58,456,402	95,218,518
1952	74	20,676	61,700,312	2,072,958	60,247,318	96,737,673	159,057,949
1953							
Newfoundland	2	119	334,314	11,197	191,102	408,488	610,787
Prince Edward Island	1						
Nova Scotia	19	3,284	9,625,935	302,756	10,163,150	13,481,323	23,947,229
New Brunswick	3	1,248	2,927,965	111,665	1,910,267	6,155,605	8,177,537
Quebec	13	10,719	34,005,878	706,848	31,174,241	55,409,501	87,290,590
Ontario	13	3,796	12,443,881	352,289	12,133,108	18,154,864	30,640,261
British Columbia	28	3,405	13,394,083	385,624	10,249,400	21,913,882	32,548,906
Canada	79	22,571	72,732,056	1,870,379	65,821,268	115,523,663	183,215,310
1954							
Newfoundland	2	44	110,034	6,474	88,621	117,651	212,746
Prince Edward Island	1						
Nova Scotia	19	3,040	9,410,906	293,619	9,188,461	12,317,609	21,799,689
New Brunswick	3	1,170	3,173,915	107,548	1,929,551	6,989,645	9,026,744
Quebec	10	8,898	29,270,857	711,591	27,236,976	42,685,112	70,833,679
Ontario	15	2,723	9,336,301	321,000	7,279,709	13,093,113	20,693,822
British Columbia	26	3,481	13,954,530	334,021	10,536,663	23,169,526	34,040,210
Canada	76	19,356	65,256,543	1,774,253	56,259,981	98,572,656	156,606,890

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.

TRANSPORTATION EQUIPMENT

TABLE 2. Inventories¹, by Provinces, 1954

	Raw materials and supplies	Goods in process ²	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Nova Scotia	1,240,506	717,440	40,659	1,998,605
Quebec	5,442,196	3,403,784	—	8,845,980
Ontario	2,619,962	788,792	180,797	3,589,551
British Columbia.....	2,449,396	854,326	10,189	3,313,911
Other provinces.....	562,165	6,219	15,000	583,384
Canada	12,314,225	5,770,561	246,645	18,331,431
Closing:				
Nova Scotia	1,042,457	222,811	34,314	1,299,582
Quebec	4,259,102	4,927,036	—	9,186,138
Ontario	2,347,995	1,406,899	134,105	3,888,999
British Columbia.....	2,479,127	998,432	8,672	3,486,231
Other provinces.....	588,957	18,335	20,000	607,292
Canada	10,697,638	7,573,513	197,091	18,468,242

1. (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Shipbuilding Industry for the year under review are shown in the above table.

2. Adjusted to allow for progress payments.

TABLE 3. Products Made in the Shipbuilding Industry, 1953 and 1954

Product	1953			1954		
	Number of vessels delivered	Gross tonnage	Value of deliveries	Number of vessels delivered	Gross tonnage	Value of deliveries
			\$			\$
Naval vessels, all types.....	6	—	14,959,639	10	—	29,634,297
Commercial vessels:						
Cargo and cargo-passenger vessels	6	29,157	17,608,921	7	64,372	23,948,369
Dredges	1	—	1,587,675	5	—	1,093,675
Ferries	1	—	141,023	6	—	1,339,267
Fishing boats	20	—	607,404	17	—	782,662
Passenger ships.....	3	—	600,000	—	—	—
Scows and barges.....	13	—	567,029	19	—	1,790,302
Tankers.....	1	17,844	7,453,180	1	17,844	7,211,107
Tugs.....	20	—	326,666	13	—	609,876
Small craft:						
With power.....	13	—	113,405	19	—	167,096
Without power.....	13	—	30,522	4	—	9,500
All other commercial vessels.....	35	—	9,525,490	24	—	2,167,765
Total production for year	126	—	38,561,315	115	—	39,119,619
			Value			
			\$			\$
Other production:						
Work done during year on undelivered vessels and on reconditioning and conversion			74,218,646			65,652,151
Repairs done to vessels during the year.....			62,787,081			44,880,586
Miscellaneous products (boilers, engines, etc.).....			25,116,627			22,580,028
Total value of deliveries and other production.....			215,643,308			201,866,681
Less value of work done in previous years on vessels delivered in current year and on reconditioning and conversion.....			32,427,998			45,259,791
Total production for year			183,215,310			156,606,890

TABLE 4. Materials Used in the Shipbuilding Industry, 1953 and 1954

Materials	Unit of measure	1953		1954	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Iron:					
Pig iron	net ton	863	49,573	541	32,559
Steel (other than special alloy):					
Bars	net ton	6,963	1,372,647	6,679	1,347,302
Plates	net ton	60,117	6,573,672	40,571	4,708,181
Sheets:					
Plain	net ton	3,018	464,208	3,108	401,172
Galvanized	"	762	133,527	721	127,321
Tinplate	"	3	652	—	—
Strip	"	282	59,861	339	73,294
Structural shapes	"	19,411	2,312,469	17,058	1,907,794
Wire	"	1,016	278,615	1,183	343,329
Alloy steel in all forms	—	—	903,682	—	835,366
Scrap iron and steel of all kinds	net ton	1,715	55,214	1,669	50,968
Iron and steel pipe and fittings	—	—	3,245,997	—	2,230,217
Other iron and steel	—	—	2,282,448	—	1,699,767
Non-ferrous metals:					
Aluminum - Castings	pound	46,888	73,072	25,569	17,473
Sheet	"	1,477,608	535,089	1,321,594	598,988
Other forms	"	643,217	480,192	975,108	453,720
Brass and bronze	"	1,649,586	748,919	984,354	480,309
Copper - Sheet	"	368,345	216,216	418,851	238,176
Wire	"	4,651	2,764	17,704	7,862
Other forms	"	202,225	116,703	96,622	47,984
Lead	"	77,575	17,922	79,882	19,630
Nickel	"	6,065	3,803	23,004	17,865
Tin	"	2,757	1,955	364	300
Zinc	"	109,627	30,608	176,471	44,800
Babbit metals and solders	"	155,436	125,867	124,121	103,215
Other non-ferrous metals	—	—	210,555	—	198,678
Other materials and supplies:					
Paint and varnishes	—	1	1	—	824,171
Lumber	M ft. b.m.	12,789	1,615,050	12,157	1,652,435
Timber	"	2,850	346,042	2,395	281,740
Engines purchased	—	—	2,952,021	—	3,871,075
Boilers purchased	—	—	725,370	—	243,909
Electrical equipment purchased	—	—	4,129,968	—	3,317,371
All other materials	—	—	35,756,587	—	30,083,010
Total	—	—	65,821,268	—	56,259,981

(1) Not available separately.

TABLE 5. Value of Shipbuilding, 1945-1954

Year	Value of ships delivered during the year	Less value of work done in previous years on ships delivered in current year ²	Add value of work done on ships not completed at year-end ²	Total value of new construction ²	Value of ship repairs
			Dollars		
1945	165,340,341	64,610,569	44,531,776 ¹	145,261,548	44,337,794
1946	44,749,959	15,382,051 ¹	25,535,274	54,903,162	28,644,712
1947	49,241,998	22,787,660	33,969,893	60,424,231	42,077,069
1948	91,164,330	46,251,542	19,182,147	64,094,935	31,084,414
1949	36,493,912	15,900,147	16,074,504	36,668,269	27,613,026
1950	25,702,978	16,207,727	16,659,090	26,154,341	27,011,849
1951	18,942,971	12,080,187	36,122,684	42,985,468	35,443,294
1952	34,881,738	17,085,838	64,777,915	82,573,815	47,578,971
1953	53,520,954	32,427,998	74,218,646	95,311,602	62,787,081
1954	68,753,916	45,259,791	65,652,151	89,146,276	44,880,586

1. 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.

2. Includes value of work done on reconditioning and conversion.

TRANSPORTATION EQUIPMENT

TABLE 6. Principal Statistics of the Shipbuilding Industry, Classified According to Type of Ownership, 1933 and 1934

Type	Estab- lish- ments	Employees	Earnings	Cost at plant of materials used	Gross value of production
	No.	No.	\$	\$	\$
1933					
Individual ownership	6	58	94,261	60,153	206,841
Partnerships	4	45	118,877	110,547	319,436
Incorporated companies	69	22,468	72,519,918	65,650,563	182,689,033
Total	79	22,571	72,732,056	65,821,268	183,215,310
1934					
Individual ownership	6	67	132,036	133,930	291,923,923
Partnerships	4	31	91,084	134,926	202,929
Incorporated companies	66	19,258	65,033,423	55,991,125	156,112,038
Total	76	19,356	65,256,543	56,259,981	156,606,890

TABLE 7. Principal Statistics of the Shipbuilding Industry in Canada, Grouped according to Size of Establishment, 1933 and 1934

Establishments reporting value of production	Estab- lish- ments	Employees	Earnings	Cost at plant of materials used	Gross value of production
	No.	No.	\$	\$	\$
1933					
Under \$25,000	3	9	20,746	13,759	43,563
\$25,000 to \$49,999	8	72	134,535	92,823	285,841
\$50,000 to \$99,999	7	102	273,321	217,448	557,403
\$100,000 to \$199,999	14	311	975,554	720,258	2,099,653
\$200,000 to \$499,999	22	1,162	3,989,397	2,058,985	7,600,999
\$500,000 to \$999,999	3	281	907,761	322,948	2,129,959
\$1,000,000 to \$4,999,999	11	3,442	11,007,898	7,983,248	25,211,078
\$5,000,000 and over	11	17,192	55,522,844	54,411,799	145,286,814
Total	79	22,571	72,732,056	65,821,268	183,215,310
1934					
Under \$25,000	3	10	25,744	23,280	47,218
\$25,000 to \$49,999	4	40	76,475	70,358	161,309
\$50,000 to \$99,999	9	117	267,861	349,260	650,069
\$100,000 to \$199,999	15	369	1,174,909	718,504	2,303,346
\$200,000 to \$499,999	12	603	2,136,596	1,251,855	4,202,219
\$500,000 to \$999,999	15	1,365	4,685,207	3,008,267	10,003,277
\$1,000,000 to \$4,999,999	9	2,852	9,273,169	7,800,028	20,739,064
\$5,000,000 and over	9	14,000	47,616,582	43,038,449	118,500,333
Total	76	19,356	65,256,543	56,259,981	156,606,890

TABLE 8. Employees and Their Earnings in the Shipbuilding Industry, by Provinces, 1953 and 1954

Province	Number of employees					Earnings		
	Office and supervisory		Production workers		Total	Office and supervisory	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1953								
Newfoundland, Prince Edward Island and New Brunswick	137	34	1,196	—	1,367	505,752	2,756,527	3,262,279
Nova Scotia	148	58	3,042	36	3,284	794,406	8,831,529	9,625,935
Quebec	943	248	9,478	50	10,719	4,628,753	29,377,125	34,005,878
Ontario	289	85	3,396	26	3,796	1,426,808	11,017,073	12,443,881
British Columbia	381	121	2,891	12	3,405	2,064,226	11,329,857	13,394,083
Total	1,898	546	20,003	124	22,571	9,419,945	63,312,111	72,732,056
1954								
Newfoundland, Prince Edward Island and New Brunswick	142	37	1,035	—	1,214	529,933	2,754,016	3,283,949
Nova Scotia	154	56	2,795	35	3,040	803,874	8,607,032	9,410,906
Quebec	1,025	254	7,558	61	8,898	5,165,989	24,104,868	29,270,857
Ontario	295	81	2,339	8	2,723	1,453,497	7,682,804	9,336,301
British Columbia	371	119	2,983	8	3,481	2,112,461	11,842,069	13,954,530
Total	1,987	547	16,710	112	19,356	10,065,754	55,190,789	65,256,543

TABLE 9. Production Workers, by Months, 1953 and 1954

Month	1953			1954		
	Male	Female	Total	Male	Female	Total
January	20,071	121	20,192	18,110	113	18,223
February	20,741	123	20,864	18,636	114	18,950
March	21,174	118	21,292	19,084	113	19,197
April	20,666	117	20,783	18,529	112	18,641
May	20,421	122	20,543	17,320	116	17,436
June	19,927	123	20,050	16,528	118	16,646
July	19,831	126	19,957	15,577	117	15,694
August	20,044	125	20,169	15,862	115	15,977
September	19,906	121	20,027	15,788	106	15,894
October	19,625	128	19,753	15,786	109	15,895
November	19,313	126	19,439	15,272	108	15,380
December	18,305	131	18,436	13,823	103	13,926
Average	20,003	124	20,127	16,710	112	16,822

TABLE 10. Capital and Repair Expenditures in the Shipbuilding Industry, 1950 - 1954

Year	Capital expenditures		Sub - total	Repair and maintenance expenditures		Sub - total	Total capital and repair expenditures
	Construction	Machinery and equipment		Construction	Machinery and equipment		
	\$'000						
1950	315	1, 474	1, 789	631	2, 500	3, 131	4, 920
1951	516	1, 978	2, 492	1, 202	2, 636	3, 838	6, 330
1952	1, 110	1, 798	2, 908	1, 681	4, 298	5, 979	8, 887
1953	1, 507	2, 000	3, 507	1, 992	3, 111	5, 103	8, 610
1954 ¹	1, 126	1, 433	2, 559	1, 650	2, 833	4, 483	7, 042

1. Preliminary.



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List of Firms in the Shipbuilding Industry, 1954

Name of firm	Location of shipyard
Newfoundland:	
Burby's Shipyard	Hovertown
Newfoundland Shipyards Limited	Clareville
Prince Edward Island:	
Bruce Stewart & Co. Limited	Charlottetown
Nova Scotia:	
Collings, Wm., & Sons, Limited	711 Barrington St., Halifax
Halifax Shipyards, Limited	Halifax and Dartmouth
Hogan, T., & Company, Limited	121 Lower Water St., and 298 Upper Water St., Halifax
Ferguson Industries Ltd.	Pictou
Leary's Shipyards	Dayspring
Lunenburg Foundry Co. Limited	Lunenburg
MacLean, John, & Sons, Limited	Mahone Bay
McKay, W.C., & Sons, Limited	Shelburne
North Sydney Marine Railway Company, Limited	North Sydney
Pinaud's, Walter, Yacht Yard	Baddeck
Port Hawkesbury Marine Railway Co. Ltd.	Port Hawkesbury
Purdy Brothers, Limited	67 Upper Water St., Halifax
Smith & Rhuland, Limited	Lunenburg
Steel & Engine Products Ltd.	Water St., Liverpool
Sweeney, W. Laurence	Water St., Yarmouth
Sydney Engineering & Dry Dock Co. Ltd.	Esplanade, Sydney
Theriault, A.F., & Son Ltd.	Meteghan River, Digby County
Wagstaff & Hatfield	Port Greville
Weagle, Hugh D.	Ft. Canal St., Dartmouth
New Brunswick:	
La Construction De St. Paul Ltée	Lower Caraquet
St. John Dry Dock Co., Limited	Bayside Drive, East Saint John
St. John Iron Works, Ltd.	Vulcan St., Saint John
Quebec:	
Canadian Vickers, Limited	4970 Notre Dame St. E., Montreal
Chantier Maritime de St-Laurent Ltée	St-Laurent
Davie Brothers Ltd.	61 Commercial St., Lévis
Davie Shipbuilding & Repairing Co. Ltd.	Lauzon
Davie, Geo. T., & Sons, Limited	Lauzon
Marine Industries, Limited	Sorel
McDonnell Ship Repairs Limited	770 Mill St., Montreal 3
Montreal Dry Docks, Limited	1151 Mill St., Montreal
St. Lawrence Dry Docks Limited	Rear 2050 Notre Dame St. W., Montreal
Talbot, Hunter, Engineering & Boiler Works Ltd.	170 St. Paul St., Quebec
Ontario:	
Canadian Dredge & Dock Co., Limited	Wellington St., Kingston
Collingwood Shipyards Limited, The	Collingwood
Erieau Shipbuilding & Drydock Co. Ltd.	Erieau
Gamble, Harry, Shipyards	Port Dover
Grant, J.A., & Sons	Port Colborne
Heighton, H.E., & Son	130 Mellanby Ave., Port Colborne
Kingston Shipyards Limited	Kingston
Magee, E.B., Ltd.	Port Colborne
Midland Shipyards Co. Limited	Midland
Port Dalhousie Shipyards Ltd.	Port Dalhousie
Port Weller Dry Docks Limited	Port Weller
Port Arthur Shipbuilding Co., Limited	Port Arthur
Russel - Hipwell Engines Limited	2202 - 3rd Ave. East, Owen Sound
Toronto Dry Dock Company, Limited	170 Villiers St., Toronto
Western Engineering Service Ltd.	Port William
British Columbia:	
Alert Bay Shipyards Ltd.	Alert Bay
Allied Builders Ltd.	Vancouver
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
Black Ball Towing Co. Ltd.	650 Denman St., Vancouver
British Columbia Packers Ltd.	Foot Blenheim St., Vancouver
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 & Okanagan Landing
Fosters' Shipyard	419 Bay St., Victoria
Madill, S., Ltd.	Nanaimo
McKenzie Barge & Derrick Co. Ltd.	Vancouver
Northwest Marine Repairs Ltd.	1352 Powell St., Vancouver
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.	33 Dallas Rd., Victoria
West Coast Salvage & Contracting Co. Ltd.	1199 W. - 6th Ave., Vancouver
Withey's Shipyard Ltd.	Gabriola Island
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 "Boat Building Industry" which is covered in a separate report.