

42-206 C.1
no separate report for shipbuilding industry
published by M. M. Cohen
see Mr. Jones
 1920 - *For by Br.*
 1921 - 1936 - *min + c.*
 1937 - *to date (1940 - confidential)*

Published by Authority of the HON. W. D. EULER, M.P.
 Minister of Trade and Commerce.

56-262-39
 Price - *previous to 1937*
 10 cents

Historical File Copy

DEPARTMENT OF TRADE AND COMMERCE
 DOMINION BUREAU OF STATISTICS
 CENSUS OF INDUSTRY
 MINING, METALLURGICAL AND CHEMICAL BRANCH
 OTTAWA - CANADA

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)
 Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.
 Statistician - Metal and Chemical Products: H. McLeod, B.Sc.

ANNUAL INDUSTRY REPORT
 IRON AND STEEL AND THEIR PRODUCTS GROUP
 THE SHIPBUILDING INDUSTRY, 1937.

The value of work done in shipyards in Canada during 1937 amounted to \$10,360,686 compared with \$6,205,127 in 1936 and \$7,124,474 in 1935. The 1937 total included \$825,433 for work done on new vessels completed during the year, \$780,572 for work done on unfinished vessels, \$6,125,304 for ship repairs, and \$2,629,377 for other products such as aircraft, industrial machinery, fabricated structural steel work, etc.. Only 36 new vessels were launched during 1937 and the finished value of these ships was \$1,030,392, including the value of work done on them in the previous year.

As reviewed in this report, the shipbuilding industry covers all shipyards in Canada which were regularly occupied on ship repairs or in building new vessels of steel or wood. Factories which made small boats, such as, gasoline launches and row-boats have not been included as the operations of such establishments are reviewed in a separate report on the boat-building industry.

Forty shipyards were in operation in 1937, there being 16 in British Columbia, 8 in Nova Scotia, 8 in Ontario, 6 in Quebec, 1 in New Brunswick, and 1 in Manitoba. Capital employed in these works amounted to \$29,163,717, employees numbered 3,502, salaries and wages totalled \$4,411,910, fuel and electricity cost \$279,993, and materials cost \$3,204,905. Twenty-five of the shipyards were occupied entirely with repairs in 1937.

Table 1 - PRINCIPAL STATISTICS OF THE SHIPBUILDING INDUSTRY, 1933 - 1937.

Year	No. of plants	Capital employed	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
		\$		\$	\$	\$	\$
1933	38	32,622,232	2,254	2,644,396	240,961	989,661	4,521,867
1934	40	31,022,378	2,760	3,197,944	254,641	1,612,739	6,466,395
1935	39	28,157,880	2,967	3,302,386	259,342	2,021,381	7,124,474
1936	37	28,397,626	2,801	3,204,378	235,863	1,530,644	6,205,127
1937	40	29,163,717	3,502	4,411,910	279,993	3,204,905	10,360,686
% change 1937 from 1936	8.1	2.7	25.0	37.7	15.8	109.4	67.0

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1936 and 1937.

Province	No. of plants	Capital employed \$	Average number of em- ployees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross sell- ing value of products at works \$
<u>1936</u>							
Nova Scotia.....	7	4,212,643	415	462,391	35,315	240,161	874,653
Quebec	6	6,942,359	1,235	1,299,589	88,233	666,462	2,451,044
Ontario	7	6,140,138	405	442,568	43,697	216,193	1,092,743
British Columbia	15	6,453,800	596	766,120	48,749	329,704	1,439,849
New Brunswick ..	1)						
Manitoba	1)	4,648,686	150	233,710	19,869	78,124	346,838
CANADA	37	28,397,626	2,801	3,204,378	235,863	1,530,644	6,205,127
<u>1937</u>							
Nova Scotia	8	4,167,247	517	648,125	39,818	366,725	1,401,994
Quebec	6	8,443,437	1,555	1,879,884	99,160	1,794,684	4,926,014
Ontario	8	5,359,107	508	595,550	58,366	390,058	1,472,038
British Columbia	16	6,592,367	720	1,050,089	60,043	570,662	2,193,751
New Brunswick ..	1)						
Manitoba	1)	4,601,559	202	238,262	22,606	82,776	366,889
CANADA	40	29,163,717	3,502	4,411,910	279,993	3,204,905	10,360,686

Table 3 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES and CAPITAL EMPLOYED, 1937.

	Number of plants	Capital employed \$	Average number of employees	Gross selling value of products at works \$
<u>(a) PRODUCTION</u>				
Under \$25,000	8	210,795	80	120,277
\$25,000 to \$50,000	8	510,580	198	307,546
\$50,001 to \$100,000	7	3,319,874	217	518,799
\$100,001 to \$250,000	7	5,177,514	499	1,164,787
\$250,001 to \$500,000	4	5,483,839	402	1,159,958
\$500,001 to \$1,000,000 ..	3	4,522,690	585	2,204,421
Over \$1,000,000	3	9,938,425	1,521	4,884,898
TOTAL	40	29,163,717	3,502	10,360,686
<u>(b) EMPLOYEES</u>				
Under 10	4	116,845	28	55,824
10 to 20	11	560,826	161	372,256
21 to 50	8	647,989	260	637,639
51 to 100	8	7,795,390	508	1,453,927
101 to 250	6	10,104,242	1,024	2,956,142
Over 250	3	9,938,425	1,521	4,884,898
TOTAL	40	29,163,717	3,502	10,360,686
<u>(c) CAPITAL</u>				
Under \$25,000	7	94,192	105	177,205
\$25,000 to \$100,000	14	659,127	329	855,169
\$100,001 to \$500,000	8	2,187,242	449	1,229,139
Over \$500,000	11	26,223,156	2,619	8,099,173
TOTAL	40	29,163,717	3,502	10,360,686

Table 4 - CAPITAL EMPLOYED, 1936 and 1937.

Province	Present value of land, build- ings, machinery and equipment	Inventory value of materials, fuel and finished products on hand and stocks in process	Operating capital (cash, bills and accounts receivable, pre- paid expenses, etc.	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
<u>1936</u>				
Nova Scotia	3,797,749	171,871	243,023	4,212,643
Quebec	5,053,485	593,228	1,295,646	6,942,359
Ontario	4,818,704	413,866	907,568	6,140,138
British Columbia.	5,898,121	182,294	373,385	6,453,800
Other provinces .	4,457,803	115,394	75,489	4,648,686
TOTAL	24,025,862	1,476,653	2,895,111	28,397,626
<u>1937</u>				
Nova Scotia	3,736,647	212,997	217,603	4,167,247
Quebec	6,248,549	1,194,927	999,961	8,443,437
Ontario	2,385,281	477,351	496,475	5,359,107
British Columbia.	5,808,620	243,925	539,822	6,592,367
Other provinces .	4,403,445	79,586	118,528	4,601,559
TOTAL	22,582,542	2,208,786	2,372,389	29,163,717

Table 5 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1936 and 1937.

Province	Average number of employees					Salaries	Wages	TOTAL
	On Salaries		On Wages		SALARIES and WAGES			
	Male	Female	Male	Female				TOTAL
						\$	\$	\$
1936								
Nova Scotia	29	5	380	1	415	59,374	403,017	462,391
Quebec	99	11	1,122	3	1,235	218,912	1,080,677	1,299,589
Ontario	35	8	361	1	405	90,962	351,606	442,568
British Columbia.	83	7	506	...	596	164,722	601,398	766,120
Other provinces .	53	3	94	...	150	113,513	120,197	233,710
TOTAL	299	34	2,463	5	2,801	647,483	2,556,895	3,204,378
1937								
Nova Scotia	29	6	481	1	517	60,159	587,966	648,125
Quebec	170	16	1,366	3	1,555	355,879	1,524,005	1,879,884
Ontario	49	11	447	1	508	119,713	475,837	595,550
British Columbia.	86	7	627	...	720	187,739	862,350	1,050,089
Other provinces .	43	2	157	...	202	91,224	147,038	238,262
TOTAL	377	42	3,078	5	3,502	814,714	3,597,196	4,411,910

Table 6 - WAGE-EARNERS, BY MONTHS, 1936 and 1937.

Month	1936			1937		
	Male	Female	TOTAL	Male	Female	TOTAL
January	2,084	3	2,087	2,780	4	2,784
February	1,968	3	1,971	2,875	3	2,878
March	2,556	3	2,559	2,925	3	2,928
April	2,767	5	2,772	3,531	5	3,536
May	2,565	4	2,569	3,159	4	3,163
June	2,801	4	2,805	3,036	5	3,041
July	2,628	7	2,635	3,036	4	3,040
August	2,592	8	2,600	2,959	4	2,963
September	2,608	5	2,613	2,637	4	2,641
October	2,770	5	2,775	3,102	4	3,106
November	2,090	5	2,095	3,519	4	3,523
December	2,138	5	2,143	3,372	4	3,376
AVERAGE	2,463	5	2,468	3,078	5	3,083

Table 7 - REGULAR HOURS WORKED PER WEEK, 1936 and 1937. (Overtime not included)

Regular hours worked per week	Per cent of wage-earners		Regular hours worked per week	Per cent of wage-earners	
	1936	1937		1936	1937
40 hours or less ...	19.4	2.0	51 - 53 hours	0.1	2.5
41 - 43 hours	0.3	0.2	54 hours	8.1	16.0
44 hours	30.2	30.6	55 hours	5.5	10.0
45 - 47 hours	10.8	18.1	56 - 59 hours	0.9	1.2
48 hours	10.3	11.5	60 hours and over ...	3.6	2.9
49 hours	10.8	5.0			

Table 8 - FUEL AND ELECTRICITY USED, 1936 and 1937.

Kind	Unit of measure	1 9 3 6		1 9 3 7	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian ..	short ton	4,745	34,522	3,762	30,169
Imported ..	short ton	5,359	30,338	7,548	45,905
Anthracite coal	short ton	128	1,404	153	1,599
Coke	short ton	450	5,291	851	10,599
Gasoline	Imp. gal.	14,121	3,166	43,096	10,468
Kerosene	Imp. gal.	8,318	1,617	10,801	2,125
Fuel oil	Imp. gal.	280,943	17,693	456,157	30,175
Wood	cord	389	1,995	374	1,865
Gas - Manufactured	M cu.ft.	412	636	884	1,480
Natural	M cu.ft.	...	...	4	3
Electricity purchased	K. W. H.	11,997,095	137,794	9,685,626	145,305
Other fuel .....	\$	...	1,407	...	300
TOTAL .....	\$	...	235,863	...	279,993
Electricity generated for own use	K. W. H.	96,200	...	110,130	...

Table 9 - POWER EQUIPMENT, 1936 and 1937.

Type	1 9 3 6		1 9 3 7	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	76	9,810	92	10,581
Diesel engines	4	94	6	185
Gasoline, gas and oil engines	10	209	15	446
Hydraulic turbines or water wheels ..	...	...	1	15
Total Primary	90	10,113	114	11,227
Electric motors run by purchased power	952	31,433	1,009	33,404
TOTAL	1,042	41,546	1,123	44,631
Electric motors run by primary power.	3	2,250	3	2,250
Total Electric Motors	955	33,683	1,012	35,654
Boilers	83	10,409	95	14,034

Table 10 - POWER EQUIPMENT, 1937, showing - ORDINARILY IN USE separately from -
IN RESERVE OR IDLE.

Type	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	90	7,381	2	3,200
Diesel engines	6	185	...	...
Gasoline, gas and oil engines	15	446	...	...
Hydraulic turbines or water wheels ..	1	15	...	...
Total Primary	112	8,027	2	3,200
Electric motors run by purchased power	1,005	32,829	4	575
TOTAL	1,117	40,856	6	3,775
Electric motors run by primary power.	3	2,250	...	...
Total Electric Motors	1,008	35,079	4	575
Boilers	85	8,609	10	5,425

Table 11 - MATERIALS USED, 1936 and 1937.

		1 9 3 6		1 9 3 7	
Materials	Unit of measure	Quantity	Cost at works \$	Quantity	Cost at works \$
Iron -					
Pig iron	long ton)			126	3,398
Iron castings of all kinds	short ton)			1,058	112,839
Steel (other than special alloy) -					
Steel castings	short ton)			553	98,395
Bars and rods	short ton)			901	88,863
Plates	short ton)			11,601	633,519
Sheets - plain	short ton)	6,935	455,155	86	13,806
- galvanized	short ton			52	5,762
Strip	short ton)			8	466
Structural shapes	short ton)			3,000	199,243
Wire	short ton)			105	8,923
Scrap iron and steel of all kinds	short ton)			410	5,855
Other iron and steel	\$)			...	23,006
Non-ferrous metals -					
Aluminium	pound	...	...	83,019	80,423
Brass and bronze	pound	140,000	49,209	187,002	49,591
Copper	pound	...	...	24,375	11,255
Lead	pound	...	...	46,428	4,534
Tin	pound	...	...	3,773	2,076
Zinc	pound	...	...	41,778	3,225
Babbitt metals and solders	pound	...	...	44,128	20,803
Other metals .....	\$	...	...	...	13,583
Other materials and supplies -					
Iron and steel pipe and fittings.	\$	...	56,285	...	50,481
Bolts, nuts, rivets, spikes, etc.	\$	...	102,924	...	167,010
Boilers	No.)	13	65,380	5	9,378
Engines	No.)			...	176,461
Electric motors and generators ..	No.	7	4,210	...	10,516
Other electrical supplies .....	\$	...	38,795	...	70,836
Lumber	M ft.b.m.	4,306	168,578	5,073	257,468
Timber	M ft.b.m.	521	27,006	1,345	58,330
Masts, spars, knees and blocks ..	\$	...	13,777	...	28,374
Sailcloth and sails .....	\$	...	2,992	...	7,398

Table 11 - MATERIALS USED, 1936 and 1937. (continued)

TABLE 11 - MATERIALS, 1922, 1936 and 1937. (Continued)					
Materials	Unit of measure	1 9	3 6	1 9	3 7.
		Quantity	Cost at works \$	Quantity	Cost at works \$
Other materials and supplies (concluded) -					
Cordage, cables, etc.	\$...	27,348	...	41,731
Caulking materials (oakum, tar, etc.)	\$...	20,205	...	23,767
Paints, oils and varnishes	\$...	93,058	...	118,163
Upholstering materials	\$...	2,154	...	6,541
Plumbing supplies	\$...	16,895	...	20,482
Other furnishings and fittings for cabins and staterooms	\$...	12,723	...	38,236
All other materials	\$...	372,155	...	737,618
Shipping containers	\$...	1,790	...	2,500
TOTAL	\$...	1,530,644	...	3,204,905

Table 12 - PRODUCTS MADE IN THE SHIPBUILDING INDUSTRY, 1936 and 1937.

Products	1 9 3 6		1 9 3 7	
	Number	Selling value at works \$	Number	Selling value at works \$
Steel vessels completed during year -				
Steam	1	29,823	...	...
Motor .....	...	...	10	510,171
Sail, with auxiliary .....	...	...	1	4,468
Sail, without auxiliary	3	77,808	...	...
Wooden vessels completed during year -				
Steam .....	...	...	3	260,023
Motor	10	62,967	10	72,400
Sail, with auxiliary	2	23,250	4	48,858
Scows and barges	4	40,265	7	82,797
All other .....	...	...	1	51,675
Total vessels completed during year ...	20	234,113	36	1,030,392
Vessels being built but which were not launched during the year				
Repairs to vessels and boats during year ..	...	4,956,960	...	6,125,304
Aeroplanes and hydroplanes made	3	250,215	5	641,666
Structural steel fabricated short ton	2,164	157,330	3,984	515,286
Industrial machinery .....	...	4,450	...	675,601
Engines .....	...	730	5	66,041
All other products .....	...	428,227	...	730,783
Total Gross Production .....	...	6,241,054	...	10,565,645
Less value of all work done in previous year on all vessels completed during the current year				
Net Value of Production .....	...	35,927	...	204,959
Net Value of Production .....	...	6,205,127	...	10,360,686

DIRECTORY OF FIRMS INCLUDED IN THE SHIPBUILDING INDUSTRY, 1937.

<u>Names of Firms</u>	<u>Location of Plants</u>
<u>NOVA SCOTIA -</u>	
Eastern Shipbuilding Corp. Ltd.	Shelburne
Halifax Shipyards Limited	Halifax
Marine Railway Ship Repairing	North Sydney
McKay, W. C., & Sons Limited	Shelburne
Meteghan Shipbuilding Co. Ltd.	Meteghan
Purdy Brothers Limited	Furness Withy Pier, Upper Water St., Halifax
Shelburne Shipbuilders Limited	Shelburne
Smith & Rhuland	Lunenburg
<u>NEW BRUNSWICK -</u>	
St. John Dry Dock & Shipbuilding Co. Ltd.	East Saint John
<u>QUEBEC -</u>	
Canada Marine Works (Estate A. K. Cantin)	2050 Notre Dame St. W., Montreal
Canadian Vickers Limited	4970 Notre Dame St. E., Montreal
Dane, Geo. T., & Sons	Lauzon
Davie Shipbuilding & Repairing Co. Ltd.	Geo. Davie St., Lauzon
Marine Industries Limited	Sorel
Montreal Dry Docks Limited	1151 Mill St., Montreal
<u>ONTARIO -</u>	
Burgley, W., & Son, Ltd.	Dry Dock, Cornwall
Collingwood Shipyards Limited, The	Huron St., Collingwood
Georgian Bay Shipbuilding & Wrecking Co.	Ship Yard, Midland
Heighton, H.E., & Son	130 Mellanby Ave., Humberstone
Kingston Shipbuilding Co. Ltd.	Lower Union & Ontario Sts., Kingston
Midland Shipbuilding Co. Ltd.	Foot of Manley St., Midland
Muir Bros. Dry Dock Co. Ltd.	Port Dalhousie
Port Arthur Shipbuilding Co. Ltd.	Port Arthur
<u>MANITOBA -</u>	
Department of Public Works (Dominion Govt.)	Selkirk
<u>BRITISH COLUMBIA -</u>	
Beach Avenue Shipyards (1932) Ltd.	944 Beach Ave., Vancouver
B.C. Lake & River Service - Canadian Pacific Railway	Nelson, Nakusp, Rosebery & Okanagan Landing
B.C. Marine Engineers & Shipbuilders, Ltd.	Foot Victoria Drive, Vancouver
British Yukon Navigation Co. Ltd.	Whitehorse
Burrard Dry Dock Co. Ltd.	Esplanade St. E., North Vancouver
Burrard Shipyard & Engineering Works Ltd.	1729 W. Georgia St., Vancouver
Cranes Shipyards Limited	650 Denman St., Vancouver
McCharles, F. R.	6628 Sperling Rd., Vancouver
North Van Ship Repairs, Limited	Ft. Rogers St., North Vancouver
Point Hope Shipyards Ltd.	Victoria
Prince Rupert Dry Dock and Shipyard	Waterfront St., Prince Rupert
Stanley Park Shipyards Ltd.	1969 W. Georgia St., Vancouver
Star Shipyard (Mercers) Ltd.	61 Duncan St., New Westminster
Vancouver Shipyards Ltd.	660 Gilford St., Vancouver
West Coast Salvage & Contracting Co. Ltd.	2146 Alder St., Vancouver
Yarrows Limited	Esquimalt

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010642130