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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

THE MACHINERY INDUSTRY

IN

CANADA

1943



(Industrial, household, office and business machinery.)



**OTTAWA
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THE MACHINERY INDUSTRY

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CANADA

1973

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OTTAWA
1973

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ANNUAL INDUSTRY REPORTIRON AND STEEL AND THEIR PRODUCTS GROUPTHE MACHINERY INDUSTRY, 1943

The annual census of production in Canada divides manufacturing into nine main groups of industries to which the producing concerns are classified according to the principal materials used. For example, the pulp and paper industry is classified under "Wood and Paper Products", iron foundries under "Iron and Steel and Their Products", etc. These main groups are further divided into industries to which the concerns are allotted according to the nature of their main products. The iron and steel group is subdivided into 17 industries, one being the Machinery Industry, which is reviewed in this bulletin. This industry covers the operations of iron and steel works which were occupied chiefly in making industrial, household, office and business machinery. Farm implements and machinery and electrical machinery and supplies are covered by separate reports.

Some concerns in other industrial groups made machinery as secondary or minor products so the production figures for the Machinery Industry do not necessarily represent the total Canadian output of the commodities listed. Table 11 of this report summarizes the total machinery production as assembled from all industries; in 1943 the total for industrial, office, business and household machinery (including electrical machinery was \$159,093,805, compared with \$163,438,107 in the previous year.

During the year under review, there were 256 factories in Canada which normally manufactured industrial, household, office and business machinery (exclusive of electrical or agricultural machinery) as their principal products. These plants were classified to the Machinery Industry and their output in 1943 was valued at \$152,359,576, a decline of 4.4 per cent from the corresponding total of \$159,371,788 for 1942.

Of the 256 establishments operating in this industry, 170 were located in Ontario, 44 in Quebec, 24 in British Columbia, 8 in Manitoba, 4 in Saskatchewan, 3 in Nova Scotia and 2 in Alberta and 1 in New Brunswick. Ontario firms accounted for 62 per cent of the total production for the Dominion, Quebec 28 per cent, and concerns in British Columbia, 8 per cent. These producers of machinery had a capital investment in Canada of \$123,621,515 and afforded employment to a monthly average of 28,239 people who received \$52,818,044 in salaries and wages. Expenditures for fuel and electricity amounted to \$1,799,257 and materials used in manufacturing processes cost \$48,685,844.

Products made in this industry included washing machines and ironers, cash registers, sewing machines, typewriters, transmission machinery, pulp and paper machinery, elevators, air compressors, rock drills and mining machinery, road-making machinery, gasoline-dispensing pumps, machine tools, rolling mill machinery, etc. Detailed production data for the industry are given in Table 10 and supplementary figures to show the total output of machinery from all industries in Table 11.

Machinery

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Table 1 - PRINCIPAL STATISTICS FOR THE MACHINERY INDUSTRY, 1933-1943

Year	Number 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 selling value of products at works
		\$		\$	\$	\$	\$
1933	189	53,167,815	6,317	6,575,848	452,903	6,787,924	18,912,926
1934	198	53,311,396	7,526	8,265,101	537,585	10,391,964	26,072,269
1935	211	59,899,705	8,949	10,531,251	611,375	12,194,263	32,856,175
1936	218	61,206,866	10,277	12,505,422	680,763	15,761,565	41,447,473
1937	214	66,323,206	12,638	16,059,392	759,245	22,204,200	57,096,816
1938	213	63,137,547	11,631	14,586,263	717,470	17,841,141	48,272,442
1939	232	69,053,059	12,248	15,847,861	812,624	18,099,490	48,458,408
1940	235	92,896,451	18,145	26,016,051	1,213,122	30,675,072	84,260,652
1941	247	110,809,396	23,376	37,676,055	1,412,852	44,617,850	124,159,341
1942	255	122,587,591	27,354	47,707,573	1,665,258	52,950,771	159,371,788
1943	256	123,621,515	28,239	52,818,044	1,799,257	48,685,844	152,359,576
Per cent change, 1943 from 1942		+ 0.8	+ 3.2	+ 10.7	+ 8.0	- 8.0	- 4.4

Table 2 - PRINCIPAL STATISTICS, BY PROVINCES, 1942 and 1943

Province	Number 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 selling value of products at works
		\$		\$	\$	\$	\$
<u>1942</u>							
Nova Scotia ...	3	338,484	99	138,098	5,592	210,820	435,147
Quebec	44	37,890,943	8,064	13,779,752	643,017	18,445,637	49,095,323
Ontario	169	78,112,566	17,327	30,393,250	912,333	30,109,237	99,776,288
Manitoba	10	881,503	202	312,868	13,236	324,104	650,288
Saskatchewan ..	4	383,262	122	188,051	8,678	208,058	374,475
Alberta	2)	241,106	57	85,202	6,003	42,822	248,149
New Brunswick ..	1)	4,739,727	1,483	2,810,351	76,399	3,710,093	8,792,118
British Columbia	22						
CANADA	255	122,587,591	27,354	47,707,573	1,665,258	52,950,771	159,371,788
<u>1943</u>							
Nova Scotia ...	3	341,277	96	146,927	6,997	202,838	426,784
Quebec	44	39,402,193	8,181	15,366,481	693,303	16,570,856	43,350,998
Ontario	170	74,195,355	17,491	32,447,269	946,482	26,899,489	94,340,123
Manitoba	8	1,132,586	172	306,808	14,962	120,373	525,384
Saskatchewan ..	4	330,155	130	200,677	11,639	132,408	510,864
Alberta	2)	221,788	67	122,122	14,931	91,329	355,434
New Brunswick ..	1)	7,998,161	2,102	4,227,760	110,943	4,668,551	12,869,989
British Columbia	24						
CANADA	256	123,621,515	28,239	52,818,044	1,799,257	48,685,844	152,359,576

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Table 3 - CAPITAL EMPLOYED, BY PROVINCES, 1942 and 1943 (On the last day of the year)

Province	Present value of land, build- ings, fixtures, machinery and tools	Value of Inventories		Cash, bills and accounts receivable, etc.	TOTAL CAPITAL EMPLOYED
		Raw materials, fuel and other supplies on hand and stocks in process	Finished products on hand		
	\$	\$	\$	\$	\$
1942					
Nova Scotia	116,843	12,124	74,050	135,467	338,484
Quebec	10,214,239	9,413,375	4,776,413	13,486,916	37,890,943
Ontario	27,678,419	18,040,917	6,203,326	26,189,904	78,112,566
Manitoba	346,674	139,453	133,474	261,902	881,503
Saskatchewan	71,480	125,003	30,000	156,779	383,262
British Columbia ..	1,544,946	1,055,606	698,822	1,440,353	4,739,727
Other provinces ..	156,572	18,345	7,361	58,828	241,106
CANADA	40,129,173	28,804,825	11,923,446	41,730,149	122,587,591
1943					
Nova Scotia	117,318	5,207	73,664	145,088	341,277
Quebec	10,095,435	10,563,904	4,734,368	14,010,486	39,402,193
Ontario	27,972,483	14,818,349	4,385,854	27,018,689	74,195,355
Manitoba	362,292	146,719	175,483	448,092	1,132,586
Saskatchewan	127,880	48,030	9,129	145,116	330,155
British Columbia ..	2,557,512	2,389,125	900,359	2,151,165	7,998,161
Other provinces ..	124,150	37,586	2,925	57,127	221,788
CANADA	41,355,070	28,008,920	10,281,762	43,975,763	123,621,515

Table 4 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1942 and 1943

Province	Average Number of Employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
1942								
Nova Scotia	10	7	82	-	99	44,698	93,400	138,098
Quebec	800	465	6,396	403	8,064	2,354,633	11,425,119	13,779,752
Ontario	2,033	1,176	12,778	1,340	17,327	6,283,612	24,109,638	30,393,250
Manitoba	30	12	158	2	202	94,743	218,125	312,868
Saskatchewan ...	17	5	98	2	122	40,061	147,990	188,051
British Columbia ..	169	75	1,222	17	1,483	520,283	2,290,068	2,810,351
Other provinces ..	5	2	48	2	57	12,078	73,125	85,203
CANADA	3,064	1,742	20,782	1,766	27,354	9,350,108	38,357,465	47,707,573
1943								
Nova Scotia	8	6	82	-	96	46,854	100,073	146,927
Quebec	925	550	6,215	511	8,181	3,076,957	12,289,524	15,366,481
Ontario	1,993	1,207	12,478	1,813	17,491	6,887,326	25,559,943	32,447,269
Manitoba	28	10	134	-	172	87,742	219,066	306,808
Saskatchewan ...	13	4	109	4	130	35,633	165,044	200,677
British Columbia ..	211	156	1,668	67	2,102	746,374	3,481,386	4,227,760
Other provinces ..	8	4	54	1	67	24,705	97,417	122,122
CANADA	3,186	1,917	20,740	2,396	28,239	10,905,591	41,912,453	52,818,044

Table 5 - WAGE-EARNERS, BY MONTHS, 1942 and 1943 (On the last work day of each month)

Month	1 9 4 2			1 9 4 3		
	Male	Female	TOTAL	Male	Female	TOTAL
January	19,670	1,280	20,950	21,297	2,235	23,532
February	19,873	1,316	21,189	21,316	2,261	23,577
March	20,211	1,376	21,587	21,252	2,307	23,559
April	20,386	1,489	21,875	20,999	2,364	23,363
May	20,533	1,603	22,136	20,870	2,467	23,337
June	20,883	1,635	22,518	20,767	2,594	23,361
July	20,917	1,741	22,658	20,819	2,371	23,190
August	21,164	1,936	23,100	20,680	2,409	23,089
September	21,224	2,137	23,361	20,463	2,417	22,880
October	21,412	2,176	23,588	20,298	2,534	22,832
November	21,595	2,207	23,802	20,269	2,542	22,811
December	21,515	2,238	23,753	19,866	2,427	22,293
AVERAGE	20,782	1,766	22,548	20,740	2,396	23,136

Table 6 - HOURS WORKED PER WEEK, BY WAGE-EARNERS, 1942 and 1943 (In one week of highest employment; overtime included)

Hours worked per week	Number of wage-earners			
	1 9 4 2		1 9 4 3	
	Male	Female	Male	Female
30 hours or less	610	138	864	182
31 - 43 hours	1,068	288	1,397	486
44 hours	1,078	195	1,584	360
45 - 47 hours	728	173	919	280
48 hours	1,148	344	880	266
49 - 50 hours	1,773	304	2,370	397
51 - 54 hours	2,970	280	3,981	483
55 hours	2,024	79	2,223	87
56 - 64 hours	6,952	485	5,757	504
65 hours and over	4,744	94	3,365	51
TOTAL	23,095	2,380	23,340	3,096
Total wages paid in selected week \$	860,519	46,538	863,055	68,583

Table 7 - FUEL AND ELECTRICITY USED, 1942 and 1943

Kind	Unit of Measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian ..	ton	12,949	95,418	13,260	98,621
Imported ..	ton	49,962	407,830	56,226	488,575
Anthracite coal	ton	20,491	148,321	20,669	156,390
Lignite coal	ton	790	3,849	754	4,116
Coke	ton	2,625	28,320	1,990	23,743
Gasoline	Imp.gal.	199,693	61,953	223,231	68,382
Kerosene	Imp.gal.	14,546	2,954	17,570	3,362
Fuel oil	Imp.gal.	1,429,676	136,339	1,134,651	115,991
Wood	cord	2,214	9,290	731	5,808
Gas - Manufactured	M cu.ft.	52,839	41,227	63,569	40,393
Natural	M cu.ft.	25,247	14,520	25,277	18,530
Other fuel .....	...	-	1,987	-	1,966
Electricity purchased	K.W.H.	68,815,772	713,250	70,152,808	773,380
TOTAL .....	...	-	1,665,258	-	1,799,257
Electricity generated for own use	K.W.H.	4,719,537	-	4,169,200	-

Table 8 - POWER EQUIPMENT, 1942 and 1943

	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 2</u>				
Steam engines and steam turbines	15	3,482	10	2,250
Diesel engines	-	-	-	-
Gasoline, gas and oil engines	19	443	3	10
Hydraulic turbines or water wheels	5	270	1	35
Total Primary Equipment	39	2,195	14	2,295
Electric motors run by purchased power ...	8,978	61,504	126	1,774
TOTAL	9,017	65,699	140	4,069
Electric motors run by primary power	314	3,907	27	579
Stationary boilers	107	11,016	6	432
Motor Generator Sets	32	2,883	2	200
<u>1 9 4 3</u>				
Steam engines and steam turbines	14	3,467	11	2,440
Diesel engines	1	50	-	-
Gasoline, gas and oil engines	27	291	12	29
Hydraulic turbines or water wheels	6	305	1	35
Total Primary Equipment	48	4,113	24	2,504
Electric motors run by purchased power ..	10,137	72,133	186	1,936
TOTAL	10,185	76,246	210	4,440
Electric motors run by primary power	316	3,992	27	579
Stationary boilers	113	10,976	10	1,097
Motor Generator Sets	48	15,338	5	395

Table 9 - MATERIALS USED BY FIRMS IN THE MACHINERY INDUSTRY, 1942 and 1943

Material	Unit of Measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Iron -					
Pig iron	ton	23,449	669,564	21,011	540,735
Castings	ton	33,989	4,508,042	41,662	5,524,585
Steel -					
Castings	ton	19,289	2,521,161	11,427	2,614,422
Bars (rounds, angles, etc.) ...	ton	22,830	2,185,250	37,120	2,007,753
Forgings	ton	-	2,927,252	10,797	3,588,730
Plates	ton	13,287	914,126	11,439	894,341
Shafting	ton	2,690	467,783	2,492	351,453
Sheets, Black	ton	11,798	1,030,333	9,311	793,152
Galvanized	ton	2,140	172,226	1,633	152,532
Tin plate	base boxes	967	13,325	1,701	23,556
Strip	ton	-	99,792	1,104	105,745
Structural shapes	ton	10,436	753,300	11,165	885,588
Stampings .....	...	-	107,982	-	59,573
Wire	ton	966	136,816	778	106,542
Tool steel, carbon and alloy, including high speed .....	...	-	562,956	-	619,312
Stainless steel .....	...	-	164,030	-	283,806
Alloy steel, other .....	...	-	145,940	-	282,739
Scrap iron or steel	ton	34,782	702,861	33,206	726,357
Other iron or steel .....	...	-	411,921	-	250,009
Ferro-alloys .....	...	-	205,627	-	131,322

Table 9 - MATERIALS USED BY FIRMS IN THE MACHINERY INDUSTRY, 1942 and 1943 - concluded

Material	Unit of Measure	1 9 4 2		1 9 4 3	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Non-ferrous metals, including scrap -					
Aluminum	pound	470,664	169,288	862,959	328,601
Brass and bronze	pound	20,211,871	3,546,640	18,861,811	3,373,865
Copper	pound	4,865,656	688,590	4,269,891	642,542
Lead	pound	2,632,125	119,741	360,051	31,602
Nickel	pound	226,810	75,539	139,191	46,025
Tin	pound	39,899	26,379	70,556	7,921
Zinc	pound	3,918,716	252,973	3,165,441	214,579
Babbitt metals and solders	pound	668,437	203,853	705,638	201,356
Other non-ferrous metals .....	...	-	93,073	-	137,627
Other materials and supplies -					
Parts for machines or vehicles ..	...	-	11,981,548	-	10,251,471
Iron and steel pipe, tubes and fittings .....	...	-	853,757	-	1,170,865
Electrical goods, including motors .....	...	-	4,181,608	-	-
Paints, oils and varnishes .....	...	-	515,708	-	469,262
Foundry coke (cupola)	ton	15,188	229,085	17,081	302,612
Moulding sands	ton	18,581	102,522	16,793	93,327
Core sands	ton	8,149	31,389	8,006	27,999
Silica sand for sand blasting ..	ton	1,326	6,954	2,380	21,891
Other foundry sands	ton	2,153	9,355	2,368	11,681
Starch	pound	31,000	2,171	26,058	1,824
Plumbago	pound	154,479	11,069	184,444	8,503
Other foundry facings	pound	-	113,520	796,686	15,560
Patterns and models .....	...	-	136,773	-	161,966
Lumber	M cu.ft.	23,389	1,255,250	15,063	918,312
Firebrick	number	451,239	49,327	335,341	55,814
Fireclay	ton	1,219	17,632	939	15,811
Cupola blocks	number	26,673	7,261	32,926	6,309
Core oil	Imp.gal.	42,119	28,073	37,827	25,784
Core compound	pound	664,269	22,654	752,491	26,778
Acetylene	cu.ft.	5,667,251	123,002	2,469,646	55,009
Oxygen	cu.ft.	15,457,628	177,915	6,033,006	75,854
Shipping materials .....	...	-	236,505	-	333,168
All other materials .....	...	-	7,551,116	-	9,709,576
TOTAL .....	...	-	52,950,771	-	48,685,844

Table 10 - PRODUCTS MADE BY FIRMS INCLUDED IN THE MACHINERY INDUSTRY, 1942 and 1943

NOTE: Data given in this table are for the Machinery Industry which included only the firms occupied chiefly in the manufacture of machinery. The output figures do not necessarily represent the total Canadian production as some machinery was made as secondary products by firms in other industries. The total production from all industries is shown in Table 11 in as much detail as possible.

Item	Selling Value at Works	
	1 9 4 2	1 9 4 3
	\$	\$
Machinery -		
Air conditioning equipment	133,598	136,687
Agricultural implements and parts	252,351	308,129
Bakers' machinery	611,846	535,560
Blowers for domestic furnaces	14,154	12,157
Bottling machinery	249,233	15,300
Canning machinery	995,791	1,165,385
Cement mill machinery	110,540	101,266
Cheese factory machinery	37,340	23,709
Cleaning and pressing machinery	219,094	176,980
Coal-pulverizing and coal-cleaning machinery	75,000	80,000

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Table 10 - PRODUCTS MADE BY FIRMS INCLUDED IN THE MACHINERY INDUSTRY, 1942 and 1943 - concluded

Item	Selling Value at Works	
	1 9 4 2	1 9 4 3
	\$	\$
Machinery - concluded		
Confectioners' machinery	-	478
Concrete-making machinery	79,442	102,118
Conveying and elevating machinery	3,134,327	2,783,173
Dairy and creamery machinery	386,060	632,409
Elevators, freight and passenger, and parts	1,771,365	1,157,964
Engines and parts	14,929,523	13,476,647
Fire engines	340,200	172,794
Flour and grist mill machinery	64,985	44,429
Grain elevator machinery	469,870	400,900
Hoisting machinery (except mine hoists)	1,953,562	1,886,041
Household machinery	6,013,422	618,039
Laundry machinery	594,171	792,983
Leather-working machinery	199,956	239,575
Machinery parts, not specified elsewhere	994,772)	
Metal-working machinery and parts (machine tools)	16,498,484)	12,090,549
Mining and metallurgical machinery and parts	3,581,304	3,654,342
Office and business machinery and parts	9,151,683	4,835,250
Printing machinery	1,800	1,939
Pulp mill and paper mill machinery	2,246,789	1,790,809
Pumps and parts	3,306,137	3,595,502
Refrigeration and ice-making machinery	484,800	686,094
Road-making machinery	1,430,792	949,776
Rubber mill machinery	380,569	500,158
Saw-mill machinery	198,216	420,485
Service station and garage machinery (including pumps)	1,065,090	214,286
Ships' machinery and fittings	6,141,017	12,331,591
Stokers and parts	1,191,339	966,984
Textile machinery	177,844	146,592
Transmission machinery	3,882,792	4,270,671
Ventilating, exhaust and dust-collecting systems	415,552	494,680
Water wheels and water turbines	1,106,145	2,180,452
Wood-working machinery	469,153	447,336
All other machinery, including air compressors, power shovels, glass-blowing machinery, rolling mill machinery, etc.	10,486,193	8,091,989
TOTAL MACHINERY	95,846,301	82,532,208
All other products	55,233,686	61,407,583
Amount received for repair work	8,291,801	8,419,785
TOTAL	159,371,788	152,359,576

Table 11 - TOTAL PRODUCTION IN CANADA OF INDUSTRIAL, HOUSEHOLD AND BUSINESS MACHINERY,
1942 and 1943 (Data assembled from all industries)

Item	1 9 4 2		1 9 4 3	
	Number	Selling value at works	Number	Selling value at works
		\$		\$
Air compressors	-	(x)	-	(x)
Bakers' machinery -				
Mixing machines	-	215,598	-	181,893
Ovens	-	214,384	-	213,610
Other bakers' machinery	-	182,114	-	147,399
Baling machines	-	(x)	-	(x)
Blowers for domestic furnaces	2,182	32,854	1,990	37,409
Bottling machinery	-	(x)	-	(x)
Canning machinery	-	1,036,957	-	1,229,483
Cheese factory machinery	-	37,845	-	24,036
Chlorinators and chlorine control apparatus ..	-	(x)	-	(x)
Cleaning and pressing machinery (except laundry)	-	219,094	-	176,980

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Table 11 - TOTAL PRODUCTION IN CANADA OF INDUSTRIAL, HOUSEHOLD AND BUSINESS MACHINERY,
1942 and 1943 (Data assembled from all industries) - continued

Item	1 9 4 2		1 9 4 3	
	Number	Selling value at works \$	Number	Selling value at works \$
Coal-cleaning and coal-pulverizing machinery ..	-	(x)	-	(x)
Concrete-making machinery, including mixers ..	-	95,673	-	111,231
Conveying and elevating machinery (except passenger and freight elevators)	-	3,362,784	-	2,953,098
Cream separators	20,986	1,084,035	13,081	866,073
Dairy and creamery machinery, except cream separators, but including milking machines, churns, pasteurizers, etc.	-	1,688,224	-	1,818,289
Dish-washing machinery	-	(x)	-	(x)
Electric appliances, motor driven, not else- where specified	-	523,782	-	261,213
Elevators, freight and passenger, and parts ..	-	1,895,159	-	1,223,710
Engines -				
Steam, including steam turbines	-	15,981,240	8,657	19,422,144
Gasoline (except automobile) -				
Marine type, including outboard	1,471	330,692	1,085	585,812
Airplane (assembled only)	-	(x)	-	-
Handcar and railway motor car	-	(x)	-	-
Stationary type	-	221,184	77	31,988
Type not specified	-	-	136	18,448
Diesel	-	(x)	158	1,699,990
Engine parts	-	2,405,922	-	3,473,866
Fire engines	-	(x)	-	(x)
Flour mill and grist mill machinery	-	68,885	-	46,933
Generators and parts, electric, A.C. and D.C. .	-	7,125,321	-	7,544,055
Glass-working machinery, automatic	-	(x)	-	(x)
Grain elevator machinery	-	609,605	-	474,809
Hoisting machinery, including chain blocks, monorail electric hoists, overhead cranes, etc., but excluding mine hoists	-	7,372,812	-	6,916,152
Ice-making and refrigerating machinery (except electric refrigerators)	-	459,113	-	675,036
Household machinery -				
Washing machines, hand	7,816	105,551	7,789	98,200
Washing machines, electric	52,198	3,062,705	5,373	336,300
Washing machines, other power	7,237	549,680	38	3,323
Wringers, clothes	26,146	147,796	11,025	53,469
Ironers	2,064	171,683	78	5,998
Refrigerators, electric, and condensing units.	-	6,721,822	-	798,407
Vacuum cleaners, electric -				
Floor models	34,547	1,306,686	2,577	79,850
Hand models	487	9,943	1,586	18,662
Attachments and parts	-	245,674	-	143,579
Other household machinery (including sewing machines)	-	2,444,645	-	129,678
Laundry machinery	-	638,036	-	792,983
Lawn mowers	55,985	443,875	42	5,449
Leather-working machinery	-	199,956	-	239,575
Logging machinery	-	472,863	-	555,970
Machinery parts (specified as such)	-	4,366,122	-	4,169,760
Metal-working machinery (machine tools) -				
Boring machines	57	1,387,014	42	852,166
Drilling machines	-	310,481	-	623,249
Grinding machines	-	392,635	-	561,599
Hammers	-	44,308	-	27,754
Lathes	-	9,844,046	-	4,895,279
Milling machines	-	754,797	-	238,450

Table 11 - TOTAL PRODUCTION IN CANADA OF INDUSTRIAL, HOUSEHOLD AND BUSINESS MACHINERY,
1942 and 1943 (Data assembled from all industries) - continued

Item	1 9 4 2		1 9 4 3	
	Number	Selling value at works \$	Number	Selling value at works \$
Metal-working machinery (machine tools) - con. -				
Threading machines	-	882,659	-	93,627
Planers	-	278,900	-	649,676
Presses (forming, stamping, etc.)	-	1,624,616	-	1,993,017
Shapers	132	453,495	80	267,722
Shearing machines	10	93,889	-	106,811
Slotters	4	33,176	-	54,077
Other metal-working machinery	-	2,433,757	-	1,984,922
Mining and metallurgical machinery -				
Agitators	-	27,897	-	48,399
Ball and rod mills	-	206,617	-	20,554
Classifiers	-	149,662	-	55,470
Crushers, jaw and gyratory	-	161,728	-	50,764
Filters	-	247,231	-	309,255
Flotation machines	-	369,139	-	81,724
Hoists	-	183,269	-	335,191
Screens	-	105,769	-	74,653
Skips and cages	-	59,016	-	32,043
Thickeners	-	26,371	-	16,000
All others	-	2,134,476	-	2,555,089
Motors, electric, and parts	-	13,706,589	-	14,699,748
Motor-generator sets	-	3,293,955	-	6,193,231
Office and business machinery -				
Adding machines	3,476	272,693	1,425	123,592
Scales, domestic, office and truck	14,033	1,033,383	14,924	754,997
Typewriters	53,743	3,072,935	16,221	1,025,658
Other, including accounting machines, cash registers, time recorders, meat slicers, bread slicers, calculating machines, etc.	-	4,459,874	-	3,040,307
Oil burners -				
Power type	855	141,920	-	364,243
Oil burner parts	-	16,240	-	5,623
Permanent wave machines and hair dryers	-	141,669	-	103,448
Printing machinery	-	5,700	-	11,432
Pulp-making and paper-making machinery	-	2,501,270	-	1,927,216
Pumps -				
Hand (iron and steel)	-	328,772	-	338,468
Centrifugal	-	1,717,879	-	2,378,836
Steam, direct-acting	-	1,277,072	-	1,745,537
Rotary	-	171,468	-	214,569
Other power	-	820,891	-	832,632
Pump parts	-	577,463	-	717,066
Water pumping systems for country houses	-	444,288	-	421,418
Gasoline dispensing pumps	-	209,146	-	160,000
Road-making machinery	-	1,502,901	-	974,834
Rolling-mill machinery	-	(x)	-	(x)
Rubber-mill machinery	-	393,394	-	500,158
Sawmill machinery	-	361,619	-	632,182
Service station and garage machinery (except pumps)	-	116,783	-	443,812
Ships' machinery and fittings	-	11,737,625	-	20,700,127
Shovels, power	-	(x)	-	(x)
Stone-working machinery	-	(x)	-	(x)
Stokers, mechanical	-	2,345,728	-	1,949,199
Stoker parts	-	382,003	-	606,685
Textile machinery and parts	-	180,012	-	165,754
Transmission machinery, including brackets, hangers, shafting and other parts	-	4,122,086	-	4,424,682

Machinery

- 10 -

Table 11 - TOTAL PRODUCTION IN CANADA OF INDUSTRIAL, HOUSEHOLD AND BUSINESS MACHINERY,
1942 and 1943 (Data assembled from all industries) - concluded

Item	1942		1943	
	Number	Selling value at works \$	Number	Selling value at works \$
Ventilating and dust-collecting systems (fans motors, ducts, etc.)	-	2,349,964	-	2,061,450
Vulcanizers	-	(x)	-	(x)
Water wheels and turbines	-	1,201,756	-	2,182,452
Water softeners	-	152,515	-	567,699
Welding machinery, including arc welders, etc. .	-	1,300,261	-	2,081,884
Well-drilling machinery	-	(x)	-	(x)
Wood-working machinery -				
Band sawing machines	54	62,756	69	64,467
Boring machines	11	4,927	5	1,218
Lathes	13	7,041	15	10,638
Matchers and planers	9	50,052	5	45,673
Moulders	13	50,097	6	25,521
Rip and cross-cut saws	179	131,245	108	98,012
Sanders	24	15,300	17	13,496
Shapers and jointers	42	34,077	39	33,731
Surfacers	45	60,958	40	75,292
Tenoners and mortisers	17	16,473	14	13,588
Other wood-working machinery	-	73,376	-	77,860
All other machinery, not separately specified .	-	6,341,153	-	8,528,500
Total of items (x) reported by only one or two firms	-	8,006,038	-	4,464,719
TOTAL MACHINERY AND PARTS	-	163,438,407	-	159,093,805

(x) Reported by less than three firms.

LIST OF FIRMS IN THE MACHINERY INDUSTRY

<u>Name of Firm</u>	<u>Location of Plant</u>
<u>Nova Scotia -</u>	
Oxford Foundry and Machine Company, Limited	Oxford.
Acadia Gas Engines, Limited	Bridgewater.
Hawboldt Gas Engines	Chester.
<u>New Brunswick -</u>	
Northern Machine Works	Main Street, Bathurst.
<u>Quebec -</u>	
Bailey Meter Company, Limited	980 St. Antoine Street, Montreal.
Braidwood, John, and Sons, Limited	60 Nazareth Street, Montreal.
Associated Clock Industries, Limited	355 Craig Street West, Montreal.
Canadian Allis-Chalmers Company, Limited	25 St. Joseph Street, Lachine.
Canadian Duff-Norton Company, Limited	Cutting Street, Coaticook.
Canadian Ingersoll Rand Company, Limited	rue des Forges, Sherbrooke.
Canadian Pneumatic Tool Company, Limited	757 St. Antoine Street, Montreal.
Canadian Fairbanks-Morse Company, Limited	62 Belvidere Street S., Sherbrooke.
Conlin Engineering Company	120 Lagauchetière Street West, Montreal.
Côté Bros., & Burritt	1260 Conde Street, Montreal.
Crammond, William A.	4857 Dagenais Street, Montreal.
Dominion Engineering Works, Limited	1st Avenue, Lachine.
Fournier, O.	St. Charles de Bellechasse.
Gosselin, J. A., Limited	Hebert Street, Drummondville.

LIST OF FIRMS IN THE MACHINERY INDUSTRY - continued

<u>Name of Firm</u>	<u>Location of Plant</u>
<u>Quebec - concluded</u>	
Hardware and Woodenware, Limited	330 Water Street, Coaticook.
Hydraulic Machinery Company, Limited	1972 Tansley, Montreal.
Jeffrey Manufacturing Company, Limited	300 St. Patrick Street, Ville la Salle.
La Compagnie F. X. Drolet	206 DuPont, Quebec.
La Fonderie de Plessisville	Plessisville.
L'Auto-Neige Bombardier, Limitée,	10662 rue Lajeunesse, Montreal.
LePage, C. H.	72 Jacques Cartier Ave., Quebec.
Linde Canadian Refrigeration Company, Limited	355 St. Peter Street, Montreal.
Miller Bros. & Sons, Limited	45 Des Seigneurs Street, Montreal.
Montreal Scale Works, Reg'd.	421 Rue Bonsecours, Montreal.
Montreal Shoe Machinery Company, Limited	535 Ontario E., Montreal.
Nagle Elevator Company, Reg'd.	155 Lagauchetière Ouest, Montreal.
O'Neill European Machine Co. of Montreal Canada	Stirling Ave., Ville La Salle.
Paquin, Alph., & Fils	508 rue St. Antoine, Joliette.
Panneton, Emery	29 Thibault, Cap de Madeleine
Providence Manufacturing Company, Limited	St. Hyacinthe
Pulp and Paper Mill Accessories, Limited	2035 Aylmer Street, Montreal.
Royal Typewriter Company, Limited	7035 Park Ave., Montreal.
Rubenstein Bros. Company	50 Craig Street West, Montreal.
Sherbrooke Machineries, Limited	Randrill Street, Sherbrooke.
Sicard, Limited	2055 Bennett Street, Montreal.
Singer Manufacturing Company	163 St. Paul Street, St. Johns.
Superheater Company, Limited	14 Drummond Rd., Sherbrooke.
United Shoe Machinery Company of Canada, Limited	2610 Bennett Avenue, Montreal.
Valois & Valois, Limited	639 Notre Dame Street W., Montreal.
Vessot, S., & Cie., Limited	104 Querbes Blvd., Joliette.
Victory Tool and Machine Company	250 Rose de Lima Street, Montreal.
Volcano Limitée	2020 St. Anne, St. Hyacinthe.
Wilson Machine Company, Limited	161 Nazareth Street, Montreal.
<u>Ontario -</u>	
Acton Machine Shops	Bower Street, Acton.
Atlantic Service Company, Limited	135 Logan Avenue, Toronto.
Adams, J. D., Limited	Paris.
Albany Pump Company (A. W. Bennett)	112 Adelaide Street East, Toronto
Albatross, Crane and Hoist Company, Limited	15 Britain Street, Toronto.
American Can Company	Lewis Street, Niagara Falls.
Armstrong, S. A., Limited	115 Dupont Street, Toronto.
Auto Knitters and Hosiery, Limited	637 Davenport Road, Toronto.
Atlas Engineering and Machine Company, Limited	16 Eastern Avenue, Toronto.
Austin Manufacturing Company	1732 Dundas Street West, Toronto.
Barber, C., & Sons	Meaford.
Bawden Machines Co., Limited	163 Sterling Toad, Toronto.
Beatty Bros., Limited	Fergus.
Beaver Laundry Machinery Company, Limited	393 Sorauren Ave., Toronto.
Berkel Products Company, Limited	533-535 College Street, Toronto.
Bertram, John, & Sons Company, Limited	Hatt Street, Dundas.
Better Packages of Canada, Limited	58 Stewart Street, Toronto.
Bickle-Seagrave, Limited	12 Young Street, Woodstock.
Blakeslee and Company, Limited	1379 Bloor Street West, Toronto.
Bowser, S. F., Company, Limited	68 Fraser Street, Toronto.
Bramham, John, Dairy Machinery	175 Munro Street, Toronto.
Brantford Oven and Rack Company, Limited	Brock and Campbell Streets, Brantford.
Brantford Washing Machines, Limited	14 Grey Street, Brantford.
Brown Boggs Foundry and Machine Company, Ltd.	37 Victoria Ave. North, Hamilton.
Brunner Corporation (Canada) Limited	283 King Street East, Toronto
Buchanan, F. L., Limited	129 Front Street, Orillia.
Burnside, Harry	422 King Street West, Toronto.

LIST OF FIRMS IN THE MACHINERY INDUSTRY - continued

<u>Name of Firm</u>	<u>Location of Plant</u>
<u>Ontario - continued</u>	
Burroughs Machines, Limited	804 MacDougall Street, Windsor.
Canada Machinery Corporation, Limited	19 Concession Street, Galt.
Canada Vulcanizer & Equipment Company, Limited	1109 York Street, London.
Canadian Elevator Equipment Company, Limited	2 River Street, Toronto.
Canadian Hoffman Machinery Company, Limited	60 Coleman Avenue, Toronto.
Canadian Ice Machine Company, Limited	65 Villiers Street, Toronto.
Canadian Ironing Machine Company, Limited	944 Yonge Street, Toronto.
Canadian Laundry Machinery Company, Limited	47 Sterling Road, Toronto.
Canadian Longyear, Limited	Regina Street, North Bay.
Canadian Mines Equipment Company, Limited	596 Hamilton Road, London.
Canadian Postage Meters, Limited	181 King Street West, Toronto.
Canadian Scale Company, Limited	41 Ossington Avenue, Toronto.
Canadian Sirocco Company, Limited	310 E. Ellis Street, Windsor.
Canadian Sullivan Machinery Company, Limited	Hatt Street, Dundas.
Canadian Toledo Scale Company, Limited	2462 Howard Avenue, Windsor.
Canners' Machinery, Limited	Aylmer.
Canners' Machinery, Limited	Sydenham Street, Simcoe.
Clark Machine Company	Merritt Street, Merrittton.
C. L. C. Machinery Company	196 Grant Avenue, Hamilton.
Climax Baler Company, Limited	43 Burton Street, Hamilton.
Cobalt Foundry, Limited	Cobalt.
Cober, Elevator Manufacturing Company	35 Front Street East, Toronto.
Coffield Washer Company, Limited	77-91 Niagara Street, Hamilton.
Connor, J. H., & Son, Limited	10 Lloyd Street, Ottawa.
Corman Engineering Company, Limited	525 Richmond Street West, Toronto.
Cook and Denison Machine and Tool Works	31 Yarmouth Street, Guelph.
Cowan and Company of Galt, Limited	81 North Water Street, Galt.
Deer Fixture Company, Limited	91 Jarvis Street, Toronto.
Delamere and Williams, Limited	18 Hook Avenue, Toronto.
Deimler Refrigeration	5 Walcott Avenue, Toronto.
Dillon, Thomas A., Screening Equipment	1244 Dufferin Street, Toronto.
Dominion Auto-Drive, Limited	Walkerville.
Dominion Road Machinery Company, Limited	East Street, Goderich.
Dominion Rubber Company, Limited	Elm Street, Kitchener.
Dominion Welders and Machinery, Limited	322 Lumsden Avenue, Toronto 13.
Dowsell, Lees and Company, Limited	193 Elgin Street, Hamilton.
Easy Washing Machine Company, Limited	Miranda and Schell Avenues, Fairbank.
Epps, C. H.	Clinton
Factory Equipment, Ltd.	Berczy Street, Aurora.
Fairgrieve and Son, Limited	40 Dovercourt Road, Toronto.
Fellows, J. A., and Company	27 Jarvis Street, Brantford.
Fletcher Manufacturing Company, Limited	883 Dundas Street East, Toronto.
Ford-Smith Machine Company, Limited	Cavell Avenue, Hamilton.
Foreman Marine Equipment, Limited	49 Leslie Street, Toronto.
Foster Wheeler, Limited	Eastchester Avenue, St. Catharines.
Gault Elevator Company	463 Church Street, Toronto.
Gibson Machines	455 Keele Street, Toronto
Gilbert and Barker Manufacturing Company, Limited	64 Jefferson Avenue, Toronto.
Greedy, Wm. & J. G., Limited	56 Esplanade, Toronto.
Gurney Scale Company, Limited	James and Colborne Streets, Hamilton.
Hall, Fred, and Son	39 Wentworth Ave. North, Hamilton.
Hamilton Gear and Machine Company	76 Van Horne Street, Toronto.
Harley-Kay, Limited	Water Street, Georgetown.
Heath and Sherwood	6 Duncan Avenue, Kirkland Lake.
Hepburn, John T., Limited	18 Van Horne and Geary Avenue, Toronto.
Hobart Manufacturing Company, Limited	119 Church Street, Toronto.
Holman Machines, Limited	Tecumseh Street, Woodstock.
Hubbard Portable Oven Company of Canada, Limited	103 Bathurst Street, Toronto.
International Business Machines Co., Limited	300 Campbell Ave., Toronto.

LIST OF FIRMS IN THE MACHINERY INDUSTRY - continued

<u>Name of Firm</u>	<u>Location of Plant.</u>
<u>Ontario - continued</u>	
International Machinery Company	73 Robert Street and Mars Avenue, Hamilton.
Jackson-Cochrane, Limited	16 Victoria Street, Kitchener.
Jardine, A. B., & Company, Limited	Avenue Street, Hespeler.
Kennedy, Wm., & Sons, Limited	1st Avenue West, Owen Sound.
Ker and Goodwin Machinery Company, Limited	260 Colborne Street, Brantford.
Kermath Manufacturing Company of Canada, Limited	619 King Street West, Toronto.
Kribs, W. A., Co., Limited	Guelph Avenue, Hespeler.
La France Fire Engine and Foamite, Limited	195 Weston Road, Toronto.
Leitch, Arthur S., Company, Limited	148 Harrison Street, Toronto.
Link-Belt, Limited	791 Eastern Avenue, Toronto, and Elmira.
Lock, J. H., & Sons, Limited	221 Sterling Road, Toronto.
London Concrete Machinery Company, Limited	Cor. Cabell & Kitchener Ave., London.
Long, E., Limited	Orillia.
Mahaffy Iron Works, Limited	145 Kendal Avenue, Toronto.
Mathews Conveyor Company, Limited	S. John Street, Port Hope.
Maxwells, Limited	73 Park Street, St. Mary's.
Maytag Company, Limited	Toronto, Winnipeg, Regina, Calgary, Edmonton, Vancouver.
McCaskey Systems, Limited	Beverley Street, Galt.
McDougall, R., Company, Limited	Chapman Street, Galt.
McInnis, C. H., Company	729 Caron Avenue, Windsor.
Merrickville Engineering Company, Limited	Merrickville
Morris, Herbert, Crane & Hoist Co., Limited	Stanley Avenue, Niagara Falls.
National Cash Register Co. of Canada, Limited	222 Lansdowne Avenue, Toronto.
National Equipment Company, Limited	41 Wabash Avenue, Toronto.
Niagara Screens and Machines, Limited	20 Breadalbane Street, Toronto.
Northern Crane & Hoist Works, Limited	Argyle Road, Walkerville.
Northern Foundry & Machine Company, Limited	453 Bay Street, Sault Ste. Marie.
Northern Machine and Tool Company	278 King Street East, Toronto.
National Refining Company, Limited	54 Ross Street, Toronto.
Oil Well Supply Company, Limited	Robert Street, Petrolia.
Otis-Fenson Elevator Company, Limited	Victoria Avenue North, Hamilton.
Outboard Marine & Manufacturing Co. of Canada, Limited	Monaghan Road, Peterborough.
Peerless Machine and Tool Company, Limited	59 Duke Street Guelph.
Pendrith Machinery Company, Limited	775 King Street West, Toronto.
Perrin, William R., Limited	530 King Street East, Toronto.
Perrin-Turner, Limited	530 King Street East, Toronto.
Plant, W. P. (Estate)	Box 32, Hastings.
Plewes-Jackson Engineering, Limited	58 Fraser Avenue, Toronto.
Pollard Manufacturing Company, Limited	564 Ferguson Avenue, Niagara Falls.
Preston Woodworking Machinery Co., Limited	Railway Street, Preston.
Provincial Engineering, Limited	749 Buttrey Street, Niagara Falls.
Pumps and Softeners, Limited	Dundas Street East., London.
Rae Machine Tool Works, Limited	Shaw and Emerald Streets, Hamilton.
Remington Rand, Limited	301 Sherman Avenue North, Hamilton.
Richardson, C. and Company, Limited	24 Wellington Street, St. Mary's.
Richmond Industrial Equipment Co., Limited	6 Wellington Street, Toronto.
Roberts, F. W., Manufacturing Company of Canada, Limited	695 Buttrey Avenue, Niagara Falls.
Roelfson Elevator Company, Limited	289 Sumach Street, Toronto.
Sawyer-Massey, Limited	Wellington Street North, Hamilton.
Scott Engineering Company, Limited	594 Runnymede Road, Toronto.
Service Station Equipment Company, Limited	101 Hanson Street, Toronto.
Shank Conveyor and Washer Company	28 Berryman Street, Toronto.
Smart-Turner Machine Company, Limited	191 Barton Street East, Hamilton.
Smillie Steel Products, Limited	130 Liberty Street, Toronto.
Smith, L. C. & Corona Typewriters of Canada, Limited	35 Front Street East, Toronto.

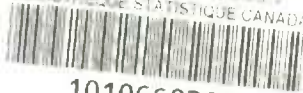
LIST OF FIRMS IN THE MACHINERY INDUSTRY - continued

<u>Name of Firm</u>	<u>Location of Plant</u>
<u>Ontario - concluded</u>	
Smith and Travers Company, Limited	208 Walnut Street, Sudbury.
Specialty Equipment Company	515 Queen Street West, Toronto.
Stephens-Adamson Manufacturing Company of Canada, Limited	50 Franklin Street, Belleville.
Stevens Company of Galt, Limited	10 Rose Street, Galt.
St. Lawrence Engine Company, Limited	St. Andrews Street, Brockville.
Thor-Canadian Company, Limited	1244 Dufferin Street, Toronto.
Toronto Textile Machinery Company	25 St. Patrick Street, Toronto.
Turnbull Elevator Company, Limited	126 John Street, Toronto.
Toronto Engine Works, Limited	2 Laird Drive, Leaside.
Underwood Elliott Fisher Manufacturing Company, Limited	354 Victoria Street, Toronto.
United Steel Corporation, Limited	58 Pelham Ave., Toronto, and Windsor,
	317 South Main Street, Welland
Viking Pump Company of Canada, Ltd.	661 Grove Avenue, Windsor.
Walker, Wallace, Limited	17 Cornwall Street, Toronto.
Wallace & Tiernan, Limited	350 Sorauren Avenue, Toronto.
Waterloo Manufacturing Company, Limited	67 King Street South, Waterloo.
Waterous, Limited	South Market Street, Brantford.
Wayne Pump Company	48 Abell Street, Toronto.
Wayne Forge & Machine Company, Limited	256-8 Adelaide Street West, Toronto.
Weaver Industries, Limited	341 Richmond Street, Chatham.
Webster Air Equipment Company, Limited	1161 King Street, London.
Welland Machine & Tool, Limited	Victoria Street, Welland.
Westco Pump & Engineering, Limited	220 King Street West, Toronto.
Whitehall Machine & Tools Company	Beverley Street, Galt.
Williams Machines, Limited	311 Montrose Street, Preston.
Williams Tool Corporation of Canada, Limited	36 Bridge Street, Brantford.
Woodstock Machinery, Limited	655 Canterbury, Woodstock.
Wright Industries, Limited	37-39 McCaul Street, Toronto.
Yates, P. B., Machine Company, Limited	Cavell Avenue, Hamilton.
<u>Manitoba -</u>	
Alpha Manufacturing Company, Limited	Midland and Notre Dame Avenue, Winnipeg.
Forever Industries, Limited	154 Princess Street, Winnipeg.
Guarantee Laundry and Dry Cleaning Machinery Company	838 Winnipeg Street, Winnipeg.
Kipp-Kelly, Limited	68 Higgins Avenue, Winnipeg.
Roberts, Wm., & Sons	120 Lombard Street, Winnipeg.
Strong, Scott Manufacturing Company, Limited	772 Dufferin Avenue, Winnipeg.
<u>Saskatchewan -</u>	
Epp, P. A.	Rosthern.
Richardson Road Machinery Company, Limited	112 Avenue 1 South, Saskatoon.
Western Machine Works, Limited	6th Avenue and Scarth Street, Regina.
Universal Grain Loader Company	Grayson.
<u>Alberta -</u>	
Coutts Machinery Company, Limited	10569 - 95th Street, Edmonton.
Progress Manufacturing Company	12520 - 102nd Avenue, Edmonton.

LIST OF FIRMS IN THE MACHINERY INDUSTRY - concluded

<u>Name of Firm</u>	<u>Location of Plant</u>
British Columbia -	
Allard Machine Works, Limited	1031 Quebec Street, New Westminster.
Canadian Mixermobile Company, Limited	263 East 7th Avenue, Vancouver.
Canadian Sumner Iron Works, Limited	3550 East Broadway, Vancouver.
Easthope Bros., Limited	1747 West Georgia Street, Vancouver.
Empire Manufacturing Company, Limited	1201 West 6th Street, Vancouver.
Gilchrist Engineering Company, Limited	135 West 2nd Avenue, Vancouver.
Heaps Engineering, Limited	Ewen Avenue, New Westminster.
Lawrence Manufacturing Company, Limited	595 West 8th Avenue, Vancouver.
Letson & Burpee, Limited	172 Alexander Street, Vancouver.
Lipsett Engine and Manufacturing Co., Limited	1840 West Georgia Street Vancouver.
Marine Iron Works, Limited	515 Pembroke Street, Victoria.
Murray-Lata Machine Company, Limited	311 - 2nd Avenue West, Vancouver.
Murdie, G. B., Limited	Harbour Road, Industrial Reserve, Victoria.
Opsal Steel Company, Limited	97 East 2nd Avenue, Vancouver.
Progressive Engineering Works, Limited	360 First Avenue West, Vancouver.
Pumps and Power, Limited	1380 Napier Street and 40 Cordova Street East, Vancouver.
Shade Engineering Works, Limited	1910 Main Street, Vancouver.
Simplex Engine and Manufacturing Co., Limited	1865 West Georgia Street, Vancouver.
Tyee Machinery Company, Limited	Lot 71, Granville Island, Vancouver.
Vancouver Machinery Depot, Limited	1155 West 6th Avenue, Vancouver.
Vivian Diesels and Munitions, Limited	1660 Station Street, Vancouver.
Vivian, W., Gas Engine Works	1090 - 6th Avenue West, Vancouver.
Wagstaff Hoist, Limited	955 Kingsway, Vancouver.
Webb & Gifford, Limited	222 Front Street, New Westminster.

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