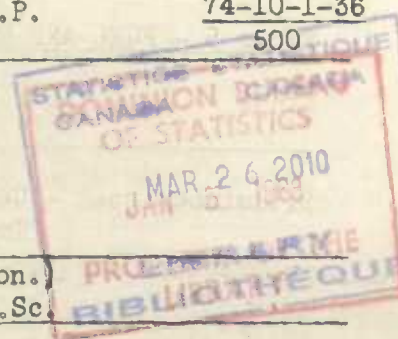


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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL AND CHEMICAL BRANCH
OTTAWA - CANADA



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CHEMICALS AND ALLIED PRODUCTS

THE EXPLOSIVES, AMMUNITION AND FIREWORKS INDUSTRY, 1934.

In 1934 there were only 9 factories in Canada engaged in the manufacture of explosives, ammunition and fireworks. Production from these works was valued at \$9,037,738 in 1934 compared with \$7,378,732 in 1933 and \$7,184,574 in 1932.

Capital employed in this industry was reported at \$6,865,362 in 1934, the number of employees was 1,277, salaries and wages totalled \$1,417,824, and the cost of materials for manufacturing was \$2,955,842.

Production of high explosives and black powders in 1934 was approximately 23,283 tons, an increase of almost 30 per cent over the tonnage for 1933. Four plants were in operation, all owned by Canadian Industries Limited; the new plant at East Selkirk, Manitoba, commenced operations in December, 1934.

In the ammunition division there were only 3 plants in operation, all being located in Quebec. Of these, 1 made safety fuse only, another made safety cartridges, shot shells, electric fuses, percussion caps, detonators, etc., and the other factory was the government arsenal which made rifle and artillery ammunition.

The 2 fireworks factories were located in Ontario.

Table 1 - PRINCIPAL STATISTICS OF THE EXPLOSIVES, AMMUNITION AND FIREWORKS INDUSTRY, 1920 - 1934.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$
1920	17	11,904,152	1,874	2,266,497	4,456,160	10,004,718	5,548,558
1921	20	10,941,530	1,333	1,441,386	2,974,568	6,709,469	3,734,901
1922	16	10,176,521	1,137	1,307,199	2,983,744	6,373,679	3,389,935
1923	14	9,242,780	1,261	1,430,129	3,678,204	7,424,559	3,746,355
1924	14	15,715,258	1,248	1,512,986	3,478,386	7,341,697	3,863,311
1925	11	11,725,864	1,347	1,758,358	3,508,974	7,971,000	4,462,026
1926	11	12,347,815	1,328	1,719,671	3,476,533	7,930,276	4,453,743
1927	13	13,482,835	1,192	1,363,750	3,520,701	8,661,063	5,140,362
1928	11	13,767,503	1,418	1,476,626	3,685,779	9,986,046	6,300,267
1929	10	14,493,270	1,445	1,581,361	3,960,702	10,828,778	6,868,076
1930	10	14,440,452	1,422	1,562,420	3,445,630	9,731,945	6,286,315
1931	9	9,868,935	1,228	1,327,804	2,826,856	8,540,927	5,714,071
1932	8	7,016,875	1,168	1,262,732	2,332,215	7,184,574	4,852,359
1933	8	6,583,517	1,168	1,260,662	2,360,404	7,378,732	5,018,328
1934	9	6,865,362	1,277	1,417,824	2,955,842	9,037,738	6,081,896

Table 2 - CAPITAL EMPLOYED, 1930 - 1934.

Years	Present value	Inventory value	Inventory	Operating capital	TOTAL CAPITAL EMPLOYED
	of lands, build- ings, machinery and other equip- ment	of materials on hand and stocks in process	value of finished products on hand	(cash, bills and accounts receivable, etc.)	
	\$	\$	\$	\$	\$
1930 ...	9,453,606	3,440,915		1,545,931	14,440,452
1931 ...	5,499,559	2,293,485	491,920	1,483,971	9,868,935
1932 ...	3,815,039	1,827,800	490,422	883,614	7,016,875
1933 ...	3,555,154	1,401,869	478,374	1,148,120	6,583,517
1934 ...	3,495,840	1,782,279	570,941	1,016,302	6,865,362

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1930 - 1934.

Years	Average number of employees					Salaries	Wages	TOTAL SALARIES AND WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
1930	117	8	1,032	265	1,422	297,820	1,264,600	1,562,420
1931	102	9	877	240	1,228	268,195	1,059,609	1,327,804
1932	139	8	786	235	1,168	379,112	883,620	1,262,732
1933	156	16	803	193	1,168	402,553	858,109	1,260,662
1934	189	23	852	213	1,277	443,937	973,887	1,417,824

Table 4 - WAGE-EARNERS, BY MONTHS, 1933 and 1934.

Months	1933			1934		
	Male	Female	TOTAL	Male	Female	TOTAL
January	782	208	990	825	200	1,025
February	776	210	986	831	201	1,032
March	770	199	969	810	211	1,021
April	836	196	1,032	808	218	1,026
May	814	192	1,006	789	220	1,009
June	789	189	978	828	211	1,039
July	644	137	781	835	211	1,046
August	843	188	1,031	903	209	1,112
September	818	189	1,007	907	222	1,129
October	828	198	1,026	887	216	1,103
November	873	200	1,073	884	217	1,101
December	862	203	1,065	910	207	1,117
AVERAGE	803	193	996	852	213	1,065

Table 5 - FUEL AND ELECTRICITY USED, 1933 and 1934.

Kinds	Unit of measure	1933		1934	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian ..	short ton	6,632	39,442	7,586	46,195
Imported ..	short ton	6,476	36,016	7,470	45,561
Anthracite coal	short ton	353	3,968	311	3,670
Coke	short ton	192	1,917	162	1,417
Gasoline	Imp. gal.	1,116	177	1,094	193
Fuel oil	Imp. gal.	329,631	15,738	379,339	17,771
Kerosene	Imp. gal.	356	67	500	89
Wood	cord	320	1,093	573	1,843
Gas - Manufactured	M cu.ft.	26,089	8,193	31,118	8,809
Electricity purchased	K.W.H.	4,348,055	51,778	5,403,720	63,078
TOTAL	xxx		158,589		188,626
Electricity generated for own use - K.W.H.		731,400	...	897,730	

Table 6 - POWER EQUIPMENT, 1933 and 1934.

	1	9	3	3	1	9	3	4
	Number of		Total rated		Number of		Total rated	
	units		horse power		units		horse power	
Steam engines and steam turbines	25		2,370		25		2,370	
Gasoline, gas and oil engines		1		6	
Hydraulic turbines or water wheels	1		125		1		125	
Total Primary Equipment	26		2,495		27		2,501	
Electric motors run by purchased power .	208		2,927		263		3,311	
TOTAL	234		5,422		290		5,812	
Electric motors run by above primary units	112		788		61		504	
Total Electric Motors	320		3,715		324		3,815	
Boilers	11		2,978		14		3,078	

DIRECTORY OF FIRMS IN THE EXPLOSIVES, AMMUNITION AND FIREWORKS INDUSTRY, 1934.

Names of Firms and Location of Plants

Products Made in 1934.

(a) EXPLOSIVES

Canadian Industries Limited,
Head Office - P.O. Box 1260,
Montreal, P.Q.
Plants at Belpell, P.Q.,
Nobel, Ont., East Selkirk,
Man., James Island, B.C.

Blasting powders, fuse powders, sporting
powders, dynamites, cordite, signal
bombs, sodium sulphate, nitre cake,
nitric acid.

(b) AMMUNITION

Canadian Safety Fuse Co. Limited,
Head Office - P.O. Box 1260,
Montreal, P.Q.
Plant at Brownsburg, P.Q.

Safety fuse for blasting; leadtex
elements.

Canadian Industries Limited,
Head Office - P. O. Box 1260,
Montreal, P.Q.
Plant at Brownsburg, P.Q.

Safety cartridges, shot shells, electric
fuses, detonators, track signals,
railway fusees, percussion caps.

Dominion Arsenal,
Carleton St., Quebec, P.Q.

Small arms and artillery ammunition,
primers and chargers.

(c) FIREWORKS

T. H. Hand Fireworks Co. Limited
Head Office - 2401 Bloor St. West,
Toronto, Ont.
Plant at Dixie, Ont.

Fireworks.

Toronto Fireworks Company, Limited,
Head Office - 28 James St.,
Hamilton, Ont.
Plant at Islington, Ont.

Fireworks.



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Number of units	Number of units	Number of units	Number of units
11	5,278	14	2,018
100	2,719	328	2,812
100	198	01	204
204	2,182	280	2,612
208	2,927	423	2,311
22	2,428	07	2,111
1	122	1	122
22	2,280	22	2,280

LIST OF FIRMS IN THE ELECTRIC, ELECTRONIC AND TELEPHONE INDUSTRIES, 1954

Electric Made in 1954

Name of Firm and Location of Plants

(a) EXPLOSIVES

Canadian Explosives Limited,
Head Office - 204 Box 1280,
Montreal, P.Q.
Plants at Montreal, P.Q.,
Koyal, Que., and Belknap,
New Jersey, U.S.A.

Dynastone powder, fuse powder, sporting
powders, dynamite, cordite, signal
cords, sodium sulphate, nitro cells,
nitric acid.

(b) METALS

Canadian Safety Fuse Co. Limited,
Head Office - 204 Box 1280,
Montreal, P.Q.

Safety fuses for blasting, leadless
elementary.

(c) TELEPHONE

Canadian Industrial Limited,
Head Office - 70 Box 1280,
Montreal, P.Q.
Plant at Newburg, P.Q.

Safety cartridges, shot shells, electronic
fuses, detonators, match signals,
raining fuses, percussion caps.

Bell and other auxiliary apparatus,
industrial instruments.

Western Electric Co. Limited,
Head Office - 204 Box 1280,
Montreal, P.Q.