Annual Bulletin
42-10-9-26.

Published by authority of the Honorable J. D. Chaplin,
Minister, DEPARTMENT OF TRADE AND COMMERCE,

Dominion Bureau of Statistics - Canada
Dominion Statistician - R. H. Coats, B.A., F.S.S. (Hon.), F.R.S.C.

Mining, Metallurgical and Chemical Branch
Chief - S. J. Cook, B.A., A.I.C., F.C.I.C.

THE EXPLOSIVES, AMMUNITION, FIREWORKS AND MATCHES INDUSTRY IN CANADA, 1925

Production of explosives, ammunition, fireworks and matches in Canada in 1925 amounted in value to $12,313,155; explosives produced during the year were valued at $7,999,856, ammunition was worth $2,129,975; fireworks totalled $128,684 in value and the output of matches was valued at $2,054,640. Capital employed in these industries totalled 16.8 million dollars, employees numbered 2,072 for the year, and salaries and wages amounted to $1,903,769. In 1924, the production of this group was shown at $13,310,315, capital employed reached 20.5 million dollars, the average number of employees was 2,174, and payments in salaries and wages amounted to $2,059,642.

SUMMARY STATISTICS OF THE EXPLOSIVES, AMMUNITION, FIREWORKS AND MATCHES INDUSTRY IN CANADA, 1921 - 1925

YEAR	No. of Plants	Capital Employed	No. of Employees	Salaries and Wages	Cost of Materials	Selling Value of Products	Value Added by Manufacturing
		$		$	$	$	$
Explosives-							
1921...	10	6,265,010	455	622,117	4,294,118	6,401,452	2,107,334
1922...	9	6,826,543	498	652,395	6,076,366	7,963,225	1,886,859
1923...	7	5,371,865	548	718,441	5,333,969	7,540,730	2,206,761
1924...	7	12,203,156	570	793,258	6,007,787	8,502,682	2,494,895
1925...	5	8,377,067	519	667,478	4,873,904	7,999,856	3,125,952
Ammunition-							
1921...	5	4,503,012	825	746,776	777,160	2,285,373	1,508,213
1922...	3	3,202,561	592	587,630	1,329,824	2,708,342	1,378,518
1923...	3	3,707,397	664	644,687	2,540,011	3,929,902	1,389,891
1924...	3	3,385,076	631	657,561	1,699,024	2,936,960	1,237,936
1925...	3	3,238,367	618	620,031	888,856	2,129,975	1,241,119
Fireworks -							
1921...	5	173,508	52	72,493	74,879	194,233	119,354
1922...	4	147,417	47	67,174	68,535	193,093	124,558
1923...	4	163,518	49	67,001	93,105	242,808	149,703
1924...	4	127,026	47	62,167	[illegible]	196,672	130,479
1925...	3	110,430	33	52,572	33,729	128,684	94,955
Matches -							
1921...	2	2,700,327	439	389,976	1,055,043	2,118,786	1,063,743
1922...	4	2,168,775	986	523,678	1,419,015	2,923,998	1,504,983
1923...	4	4,577,322	1,029	701,868	1,303,556	2,714,950	1,411,394
1924...	4	4,742,182	926	546,656	1,014,338	1,674,001	659,613
1925...	4	5,101,457	902	563,691	1,052,432	2,054,640	1,002,208
TOTAL-							
1921...	22	13,641,857	1,771	1,831,362	6,201,200	10,999,844	4,798,644
1922...	20	12,345,296	2,123	2,030,877	8,893,740	13,788,658	4,894,918
1923...	18	13,820,102	2,290	2,[illegible]	9,270,641	14,428,390	5,157,749
1924...	18	20,457,440	2,174	2,059,642	8,787,392	13,310,315	4,522,923
1925...	15	16,827,321	2,072	1,903,769	6,843,921	12,313,155	5,464,234

MATERIALS USED IN THE EXPLOSIVES, AMMUNITION, FIREWORKS AND MATCHES INDUSTRY IN CANADA, 1924 and 1925

Materials Used	Unit of Measure	1924 Quantity	1924 Cost at Works $	1925 Quantity	1925 Cost at Works $
Explosives -					
Purchased Materials Used -					
Ammonium hydroxide	lb. NH_3	78,509	8,937	27,606	3,078
Ammonium nitrate	lb.	2,283,806	132,397	4,132,417	242,043
Ammonium perchlorate	lb.	47,100	4,773	44,722	2,804
Calcium carbonate	lb.	323,627	2,225	366,600	1,974
Charcoal	lb.	281,254	7,837	239,027	5,083
Corn meal	lb.	155,743	4,280	245,539	7,071
Corn starch	lb.	268,696	13,262	246,849	13,163
Dinitrotoluene (D[illegible])	lb.	156,879	16,493	330,753	33,974
Flour	lb.	815,724	15,628	725,946	16,465
Glycerine	lb.	3,702,854	620,757	4,243,990	738,304
Graphite	lb.	3,238	292	3,915	280
Kaiselguhr	lb.	20,729	591	...	...
Mixed acids	lb.	...	...	3,000	180
Nitric acid	lb.	382,126	32,537	1,163,290	69,822
Nitrocotton (Pyrocotton)	lb.	1,233,635	252,668	162,315	81,108
Oleum	lb.	9,538,349	118,139	7,487,729	76,850
Paper	lb.	...	89,971	[illegible]	110,330
Petrolatum	lb.	12,935	841	13,638	830
Petroleum products (chiefly paraffine wax)	lb.	185,256	10,236	351,733	21,748
Potassium chlorate	lb.	181,453	6,771	49,000	3,675
Potassium nitrate	lb.	335,055	19,090	135,317	7,153
Sawdust	lb.	754,820	3,616	647,538	6,163
Sodium carbonate (soda ash)	lb.	292,855	6,467	334,058	6,907
Sodium chloride (salt)	lb.	434,367	3,442	434,621	3,316
Sodium biborate (borax)	lb.	28,550	1,777	28,031	1,711
Sodium nitrate (Chile saltpetre)	lb.	25,465,414	660,228	26,451,178	666,361
Sulphur	lb.	590,566	7,985	977,946	11,722
Sulphuric acid (66°Be.)	lb.	4,677,457	61,562	5,935,539	68,295
Trinitrotoluene (TNT)	lb.	109,774	20,383	...	...
Wood pulp	lb.	1,236,880	28,675	1,371,646	31,604
Containers, boxes, cartons, etc.	lb.	...	154,052	...	131,206
All other materials #		...	201,091	...	225,896
Total			2,507,003	...	2,586,389
Intermediate products used as materials ⊂			3,500,783	...	2,287,515
TOTAL			6,007,786	...	4,873,904
Ammunition -					
Purchased materials used [1]			905,190	...	888,856
Intermediate products used as materials			793,834	...	...
Total			1,699,024	...	888,856
Fireworks-					
Total			66,193	...	33,729
Matches -					
Ammonium phosphate	lb.	53,931	7,233	48,479	5,498
Glue	lb.	152,533	35,462	362,375	70,921
Lumber and splints	ft.	5,692,454	353,391	5,254,000	359,160
Phosphorus sesquisulphide	lb.	15,023	1,278	69,746	37,392
Potassium chlorate	lb.	841,025	54,532	970,031	66,043
Powdered glass		265,818	6,541	264,659	5,224
Wax	lb.	963,124	45,605	1,272,088	71,408
Containers, boxes, cartons, etc.			170,476	...	217,812
All other materials			339,870	...	218,966
Total			1,014,388	...	1,052,432
TOTAL MATERIALS			8,787,392	...	4,919,277

Includes ammonium perchlorate, ammonium sulphate, magnesium oxide, magnesium carbonate, mercury, sodium perchlorate, acetone, alcohol, amatol, cordite and various other materials.

⊂ Includes nitric acid, mixed acids, recovered acids, ammonium nitrate and nitroglycerine.

1 Includes wax, potassium chlorate, mercury fulminate, cotton, yarn, powder, shot, paper, cordite and various other materials.

PRODUCTS OF THE EXPLOSIVES, AMMUNITION, FIREWORKS, AND MATCHES INDUSTRY IN CANADA
1924 and 1925.

Products	Unit of Measure	1924 Quantity	1924 Selling Value $	1925 Quantity	1925 Selling Value $
Explosives -					
(a) Products made for sale-					
Class 1 - Gun powder.....	lb.	1,439,843	242,429	730,409	108,280
Class 11- Nitrate mixtures....	lb.	490,875	48,400	817,175	71,911
Class 111-Nitro compounds-					
Division 1 -					
Dynamites.....	lb.	9,172,523	1,390,960	12,538,660	1,897,005
Gelatine dynamites.....	lb.	18,381,624	2,911,295	18,965,696	2,977,139
Monobels.....	lb.	1,587,036	257,155	1,731,436	282,571
Propellant powders.....	lb.	25,321	43,046	54,890	93,314
Total powder and blasting explosives in bulk.....		...	4,893,285	...	5,430,220
Other products and by-products [1]..		...	108,614	...	282,121
Total.....		...	5,001,899	...	5,712,341
(b) Intermediate products made for use -					
Ammonium nitrate.....	lb.	2,612,273	208,779	102,495	8,618
Nitric acid.....	lb.	7,616,979	510,128	7,747,311	533,771
Nitroglycerine.....	lb.	8,317,487	1,500,180	9,039,492	1,611,924
Recovered acids.....	lb.	8,747,777	147,405	10,545,967	133,202
All other intermediate products		...	1,134,291	...	...
Total.....		...	3,500,783	...	2,287,515
Total Explosives.....		...	8,502,682	...	7,999,856
Ammunition -					
(a) Products made for sale[2]		...	2,143,126	...	2,129,975
(b) Intermediate products made for use		...	793,834	...	...
Total. Ammunition..		...	2,936,960	...	2,129,975
Fireworks -					
Class VII - Fireworks - Division 2...					
Manufactured fireworks.....		...	123,201	...	109,020
All other products.....		...	73,471	...	19,664
Total. Fireworks.....		...	196,672	...	128,684
Matches -					
Total.....		...	1,674,001	...	2,054,640
TOTAL.....		...	13,310,315	...	12,313,155

1 Includes recovered acids, nitre cake, chlorate mixtures, mercury fulminate and other products.

2 Includes safety cartridges, safety fuses for blasting, railway fog signals, percussion caps, loaded and empty shot shells, electric fuses, detonators, railway fusees and other products.