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Published by Authority of Hon. H. H. Stevens, M.P.,  
Minister of Trade and Commerce.

R Annual Bulletin  
63-7-1-31  
900 copies

DOMINION BUREAU OF STATISTICS - CANADA  
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THE NON-METALLIC MINERAL PRODUCTS INDUSTRY IN CANADA, 1929.

Manufactures of the non-metallic minerals in Canada during 1929 reached a value of \$242,023,518 or about 36 millions above the corresponding figure for 1928, according to statistics just issued by the Dominion Bureau of Statistics at Ottawa. Figures for 1929 cover the operation of 1,173 factories which represented a capital of \$329,448,644 and employed 31,431 workers throughout the year. In 1928 only 26,350 people were employed in the 1,178 plants of this class and production totalled \$206,082,141 in value.

Firms in this group are classified into 15 different industries and only one of these showed a lower output value in 1929 than in the preceding year. Petroleum products advanced \$16.3 millions to \$99,408,314; coke and gas gained \$5.2 millions to \$39,610,443; cement, \$2.6 millions to \$19,337,235; glass, \$2 millions to \$15,507,442; abrasives and abrasive products, \$1.8 millions to \$8,961,951; aerated waters, \$1.6 millions to \$12,249,218; products from domestic clays, \$1.5 millions to \$13,904,643; lime, \$1.4 millions to \$5,908,610; the miscellaneous group, \$1.2 millions to \$6,000,697; stone dressing, \$1.1 millions to \$8,224,060; production from imported clays, \$0.9 millions to \$3,373,038. Cement products at \$4,419,417 and asbestos products at \$2,236,638, each showed a gain of about \$250,000, and the salt industry recorded a slight advance to \$1,573,986. Sand-lime brick declined in value to \$953,726 from \$1,112,466 in 1928.

Imports into Canada of non-metallic minerals and their products totalled \$195,921,799 in value during 1929 as compared with \$162,172,427 in the previous year. Imports of coal and its products alone were valued at \$63,652,325 and imports of petroleum, asphalt and their products, chiefly crudes, were worth \$77,839,410. United States supplied \$149,531,567 worth or 80 per cent of Canada's imports in this class, while only \$13,207,944 or 7 per cent came from the United Kingdom. Exports from Canada during 1929 were valued at \$29,719,996 as against \$26,593,611 in 1928. Exports of asbestos and its products were worth \$12,748,634; exports of coal and its products were valued at \$5,411,417, and stone and its products exported were valued at \$7,009,017. United States took \$19,645,319 worth or 66 per cent of Canada's exports of non-metallic minerals and their products and the United Kingdom took \$2,170,488 or a little more than 7 per cent.



Table 1-

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## SUMMARY STATISTICS OF THE MANUFACTURES OF THE NON-METALLIC MINERALS IN CANADA, 1926-1929.

Year	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
		\$		\$	\$	\$	\$
<u>APPRATED WATERS</u>							
1926 ...	347	10,695,527	1,691	1,879,321	3,053,477	7,408,504	4,353,027
1927 ...	335	11,665,036	1,802	2,053,043	3,461,511	8,712,427	5,251,116
1928 ...	347	11,650,938	1,967	2,407,861	4,705,656	10,677,831	5,972,175
1929 ...	345	12,756,026	2,174	2,553,456	4,576,027	12,249,218	7,673,191
<u>ASBESTOS PRODUCTS</u>							
1926 ...	14	2,773,433	270	321,865	750,907	1,530,094	779,137
1927 ...	13	2,860,945	300	358,959	797,975	1,663,300	865,325
1928 ...	14	3,064,164	345	421,448	925,661	2,050,432	1,124,771
1929 ...	12	2,949,712	351	359,433	1,348,460	2,236,658	938,178
<u>CEMENT PRODUCTS</u>							
1926 ...	185	2,857,752	922	778,662	890,041	2,544,242	1,664,201
1927 ...	151	2,671,273	872	936,053	912,686	2,663,065	1,750,379
1928 ...	151	4,140,543	1,262	1,466,508	1,261,653	4,136,955	2,875,302
1929 ...	153	5,024,497	1,347	1,608,238	1,502,952	4,419,417	2,916,463
<u>COKE AND GAS</u>							
1926 ...	50	79,043,166	4,293	5,897,273	15,970,181	33,526,334	17,556,135
1927 ...	46	88,811,029	4,145	5,869,119	16,614,903	34,044,749	17,429,046
1928 ...	45	92,145,190	3,914	5,608,779	17,164,246	34,708,447	17,544,201
1929 ...	43	94,749,062	3,902	5,938,314	18,517,214	39,910,443	21,393,229
<u>GLASS</u>							
1926 ...	52	11,432,823	3,033	3,443,644	4,884,559	11,670,269	6,785,710
1927 ...	54	12,736,057	3,120	3,976,959	5,257,950	14,164,086	8,906,136
1928 ...	59	12,694,832	3,219	3,378,165	4,791,486	13,365,354	8,773,868
1929 ...	60	16,229,364	3,948	4,740,673	5,355,156	15,507,442	10,152,286
<u>PETROLEUM PRODUCTS</u>							
1926 ...	23	57,178,125	3,753	5,892,399	51,172,159	71,196,311	20,024,152
1927 ...	23	56,135,564	3,856	6,183,226	53,059,921	64,323,820	11,468,299
1928 ...	23	56,531,614	4,319	6,922,530	57,383,841	83,122,172	25,738,331
1929 ...	23	71,260,459	4,978	8,153,625	76,861,939	99,408,314	22,546,375
<u>IMPORTED-CLAY PRODUCTS</u>							
1926 ...	12	2,849,558	597	783,448	520,218	2,039,514	1,519,296
1927 ...	13	2,834,820	652	843,535	567,519	2,089,238	1,520,719
1928 ...	14	3,068,562	696	891,125	708,571	2,458,801	1,750,230
1929 ...	15	3,472,052	872	1,112,881	992,150	3,373,038	2,380,888
<u>SAND-LIME BRICK</u>							
1926 ...	10	1,082,577	218	223,599	197,400	629,672	432,272
1927 ...	11	1,536,064	254	300,313	258,777	939,311	631,134
1928 ...	11	1,916,060	281	352,311	322,027	1,112,466	790,439
1929 ...	12	2,356,726	304	341,005	264,465	953,726	689,261
<u>STONE DRESSING</u>							
1926 ...	222	5,443,707	1,491	2,175,223	1,859,964	5,799,690	3,939,726
1927 ...	228	5,758,806	1,514	2,255,638	1,798,672	5,606,984	3,808,312
1928 ...	222	6,305,519	1,686	2,578,707	2,460,900	7,176,035	4,715,135
1929 ...	220	7,107,162	1,863	3,048,084	2,788,934	8,224,060	5,435,128
<u>ARTIFICIAL ABRASIVES AND ABRASIVE PRODUCTS</u>							
1926 ...)	Included with Miscellaneous Non-Metallic Mineral Products prior to 1928.						
1927 ...)							
1928 ...	12	7,317,135	691	1,048,521	2,169,428	7,122,588	4,953,160
1929 ...	12	6,683,533	828	1,270,898	2,905,928	8,961,951	6,056,023
<u>MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS (a)</u>							
1926 ...	31	8,926,857	1,552	1,626,661	3,004,413	8,612,658	5,608,245
1927 ...	31	13,331,203	1,592	1,729,777	3,582,615	10,231,304	6,648,489
1928 ...	17	8,331,500	995	1,117,773	1,790,404	4,799,640	3,009,236
1929 ...	23	9,747,137	982	1,224,582	2,035,905	6,000,697	3,964,792
<u>TOTAL FOR ALL INDUSTRIES LISTED ABOVE</u>							
1926 ...	956	177,585,585	17,820	23,022,095	32,293,319	144,955,283	62,661,969
1927 ...	907	193,590,848	18,108	24,411,627	86,312,529	144,642,884	58,350,355
1928 ...	917	207,166,077	19,375	26,693,778	93,683,873	170,950,721	77,246,848
1929 ...	920	232,395,750	21,549	30,351,632	117,149,130	201,294,944	84,145,814

(a) The Miscellaneous Non-Metallic Mineral Products group includes artificial graphite and electrodes, gypsum products, mica trimming, magnesite products, foundry facings and supplies.

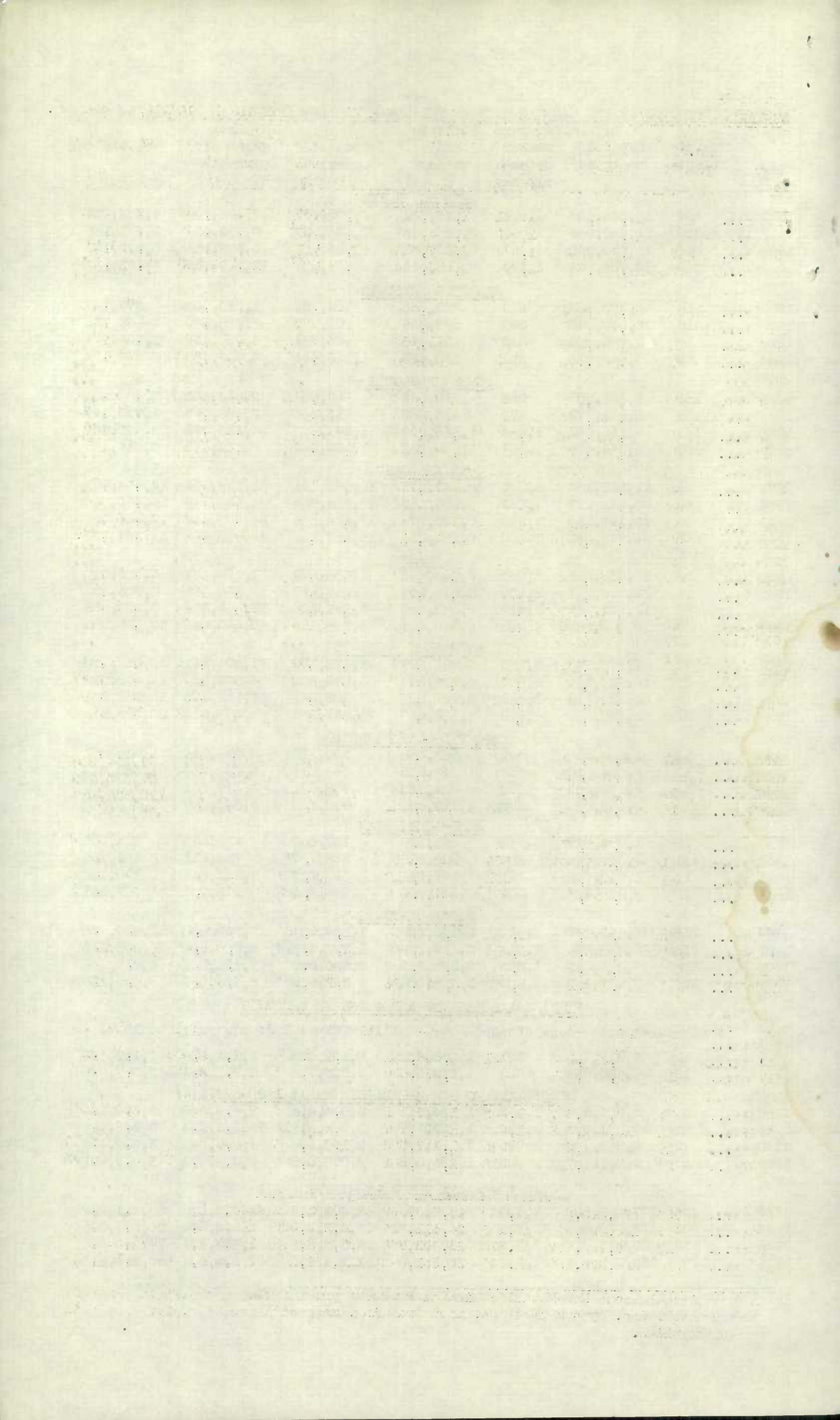


Table 1. concluded

SUMMARY STATISTICS OF THE MANUFACTURES OF THE NON-METALLIC MINERALS IN CANADA, 1926-1929.

Year	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
		\$		\$	\$	\$	\$
<u>DOMESTIC-CLAY PRODUCTS</u>							
1926 ...	200	28,152,062	4,395	4,346,687	...	10,387,323	...
1927 ...	194	30,437,607	4,776	4,769,307	...	11,173,189	...
1928 ...	186	32,473,203	5,195	5,181,398	...	12,381,718	...
1929 ...	181	34,190,056	5,530	5,719,014	...	13,904,643	...
<u>CEMENT</u>							
1926 ...	12	41,380,000	2,340	3,052,662	...	13,013,283	...
1927 ...	12	40,509,319	2,270	3,143,932	...	14,391,937	...
1928 ...	11	47,678,841	2,407	3,405,385	...	16,739,163	...
1929 ...	11	50,881,818	2,546	3,523,595	...	19,337,235	...
<u>LIME</u>							
1926 ...	60	5,325,809	1,106	1,082,854	...	3,781,484	...
1927 ...	60	6,200,481	1,132	1,133,708	...	3,923,388	...
1928 ...	54	6,952,079	1,218	1,316,115	...	4,554,568	...
1929 ...	53	7,404,677	1,382	1,393,092	...	5,908,610	...
<u>SALT</u>							
1926 ...	12	2,782,728	384	482,651	...	1,480,149	...
1927 ...	11	3,194,802	376	499,967	...	1,614,667	...
1928 ...	10	4,422,922	455	539,775	...	1,495,971	...
1929 ...	8	4,576,543	424	516,453	...	1,578,086	...
<u>TOTAL OF MINERAL INDUSTRIES LISTED ABOVE.</u>							
1926 ...	285	78,140,599	8,225	8,964,854	...	28,632,239	...
1927 ...	277	80,342,209	8,554	9,546,914	...	31,103,181	...
1928 ...	261	91,527,045	9,275	10,442,673	...	35,151,420	...
1929 ...	253	97,053,094	9,882	11,152,154	...	40,728,574	...
<u>GRAND TOTAL</u>							
1926 ...	1,241	255,724,184	26,045	31,986,949	82,293,319	173,587,527	91,294,208
1927 ...	1,184	273,933,057	26,662	33,958,541	86,312,529	175,746,065	89,433,536
1928 ...	1,178	298,693,122	28,650	37,136,451	93,683,873	206,082,141	112,398,268
1929 ...	1,173	329,448,844	31,431	41,503,846	117,149,130	242,023,518	124,874,388

Table 2.- PRINCIPAL STATISTICS OF THE NON-METALLIC MINERAL PRODUCTS INDUSTRY IN CANADA, BY PROVINCES, 1929.

Year	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
P.E.I.....	4	99,867	18	19,280	25,495	71,590	46,098
Nova Scotia..	54	24,303,167	1,279	1,681,803	10,637,726	15,330,695	4,692,969
New Brunswick.....	41	1,405,574	388	375,084	243,945	1,121,926	877,381
Quebec.....	249	82,298,831	8,298	10,546,463	26,137,403	54,684,907	28,547,304
Ontario....	327	146,284,130	15,936	21,537,831	50,084,186	115,368,237	65,284,051
Manitoba..	51	16,190,352	1,156	1,338,847	1,565,571	7,500,021	3,934,450
Saskatchewan....	34	9,049,952	773	1,110,036	3,876,745	14,390,871	5,514,126
Alberta....	43	18,623,714	1,574	2,074,263	9,708,837	17,740,774	8,031,887
British Columbia..	70	31,193,257	2,009	2,820,239	9,869,172	18,814,497	5,945,325
CANADA....	1,173	329,448,844	31,431	41,503,846	117,149,130	242,023,518	124,874,388

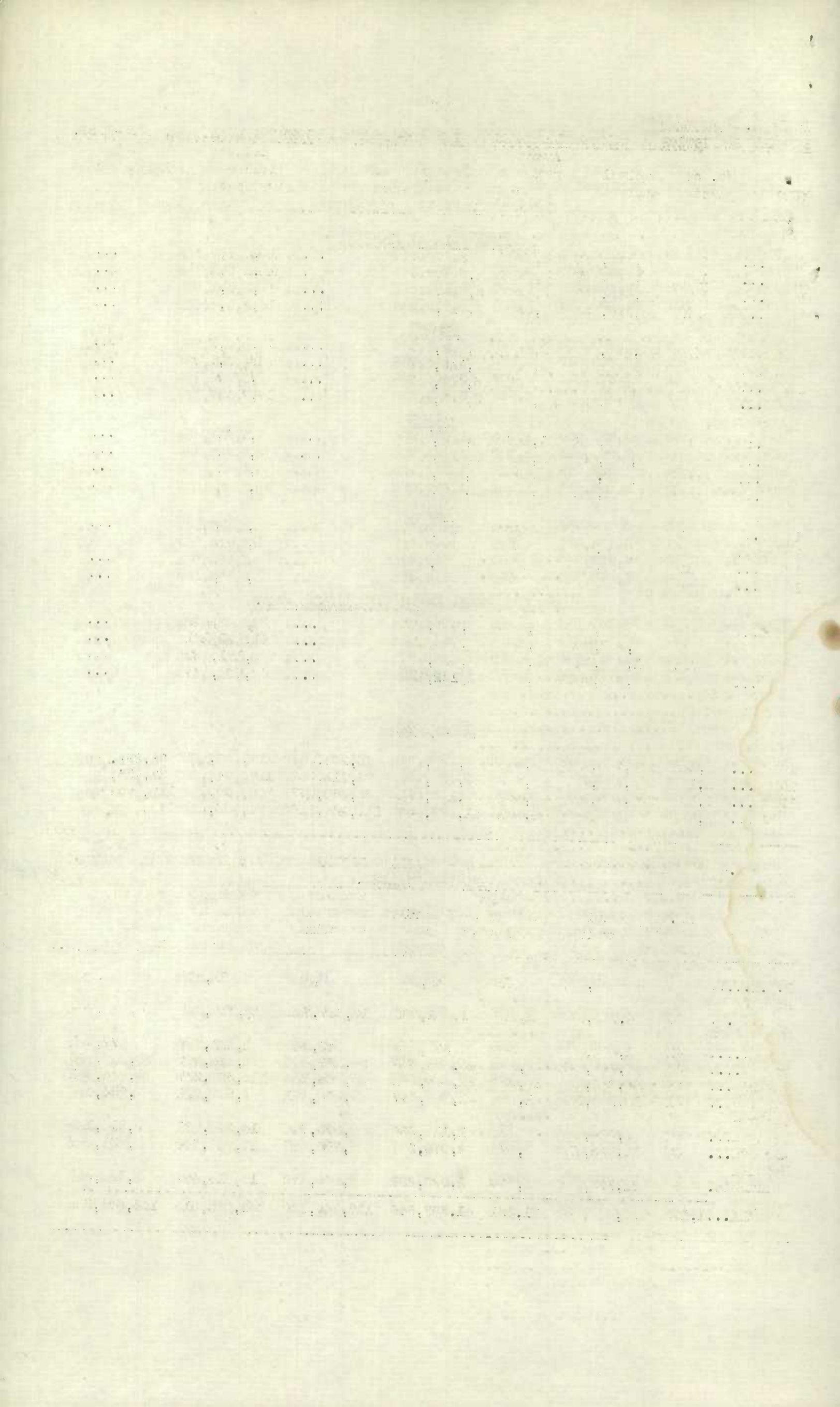


Table 3.- ALPHABETICAL LIST OF PRODUCTS MADE IN ALL INDUSTRIES CLASSIFIED UNDER THE NON-METALLIC MINERAL PRODUCTS INDUSTRY IN CANADA, 1929.

Product	Industry number (see key on page 6).	Unit of measure	Quantity	Selling value at works
Abrasive wheels.....	2	-	...	819,384
Alumina, fused.....	2	lb.	107,715,465	4,974,789
Ammonia, liquor.....	6	lb. NH <sub>3</sub>	1,694,538	25,651
Ammonium sulphate.....	6	lb.	68,282,003	1,296,952
Abrasive products, not elsewhere speci- fied, including abrasive cloth, abrasive paper, pulpstones, sharpen- ing stones, etc.....	2	-	...	388,183
Asbestos boiler and pipe covering.....	3	ft.	3,593,131	406,595
Asbestos brake lining.....	3	ft.	2,921,243	555,759
Asbestos packings.....	3	lb.	506,787	254,595
Asbestos products not elsewhere specified, including corrugated sheat- ing, lumber, millboard, paper, shingles, wallboard, gaskets, blackboards, tile, etc.....	3	-	...	1,070,312
Asphalt.....	11	Imp.gal.	35,253,769	2,689,760
Boiler compound.....	10	Imp.gal.	51,830	26,405
Brick, clay:-				
Soft mud process - (Face.....	12	no.	26,624,063	538,096
(Common.....	12	no.	77,399,073	1,198,511
Stiff mud process - (Face.....	12	no.	114,093,455	2,469,417
(wire cut) (Common.....	12	no.	170,840,374	2,509,451
Dry press - (Face.....	12	no.	38,590,601	813,461
(Common.....	12	no.	26,130,929	368,039
Fancy or ornamental, including en- bossed and enamelled brick.....	12	no.	186,588	12,795
Sewer brick.....	12	no.	4,765,357	96,588
Paving brick.....	12	no.	96,640	3,844
Brick, cement.....	5	M	649,806	178,257
Brick, sand-lime.....	15	M	78,361	983,723
Building blocks, cement, hollow.....	5	-	...	902,413
Cement, Portland.....	4	bbls.	12,284,081	19,337,235
Cement posts, poles, etc.....	5	-	...	19,843
Cinder blocks.....	5	M	2,209	306,228
Coke, petroleum.....	11	ton	109,516	605,983
Coke, gas house.....	6	ton	305,352	2,009,192
Coke, by-product.....	6	ton	2,410,790	16,360,714
Core compound.....	21	lb.	665,386	31,964
Cement products, other, including catch basins, chimney blocks, battery wells, basement foundations, vaults, cribbing, flue blocks, ready-mix concrete, laundry tubs, trays, lintels and sills, railway slabs, septic tanks, etc.....	5	-	...	277,042
Electrodes, carbon and graphite.....	18	lb.	58,805,636	1,758,671
Facings, foundry.....	21	ton	4,638	114,792
Fireclay.....	12-13	ton	5,036	35,451
Fireclay blocks and shapes.....	12	-	...	130,411
Firebrick and stove linings.....	13	-	...	362,360
Firebrick.....	12	no.	5,196,319	251,043
Gas made -				
Straight coal gas including coke oven gas.....	6	M cu.ft.	34,381,044	
Straight water gas (blue gas).....	6	M cu.ft.	337,223	
Carburetted water gas.....	6	M cu.ft.	3,763,697	
Mixed coal and water gas.....	6	M cu.ft.	271,335	
Oil gas.....	6	M cu.ft.	171,574	
Acetylene gas.....	6	M cu.ft.	213	
Total gas made.....	6	M cu.ft.	38,925,086	
Gas sold.....	6	M cu.ft.	17,649,371	13,316,684

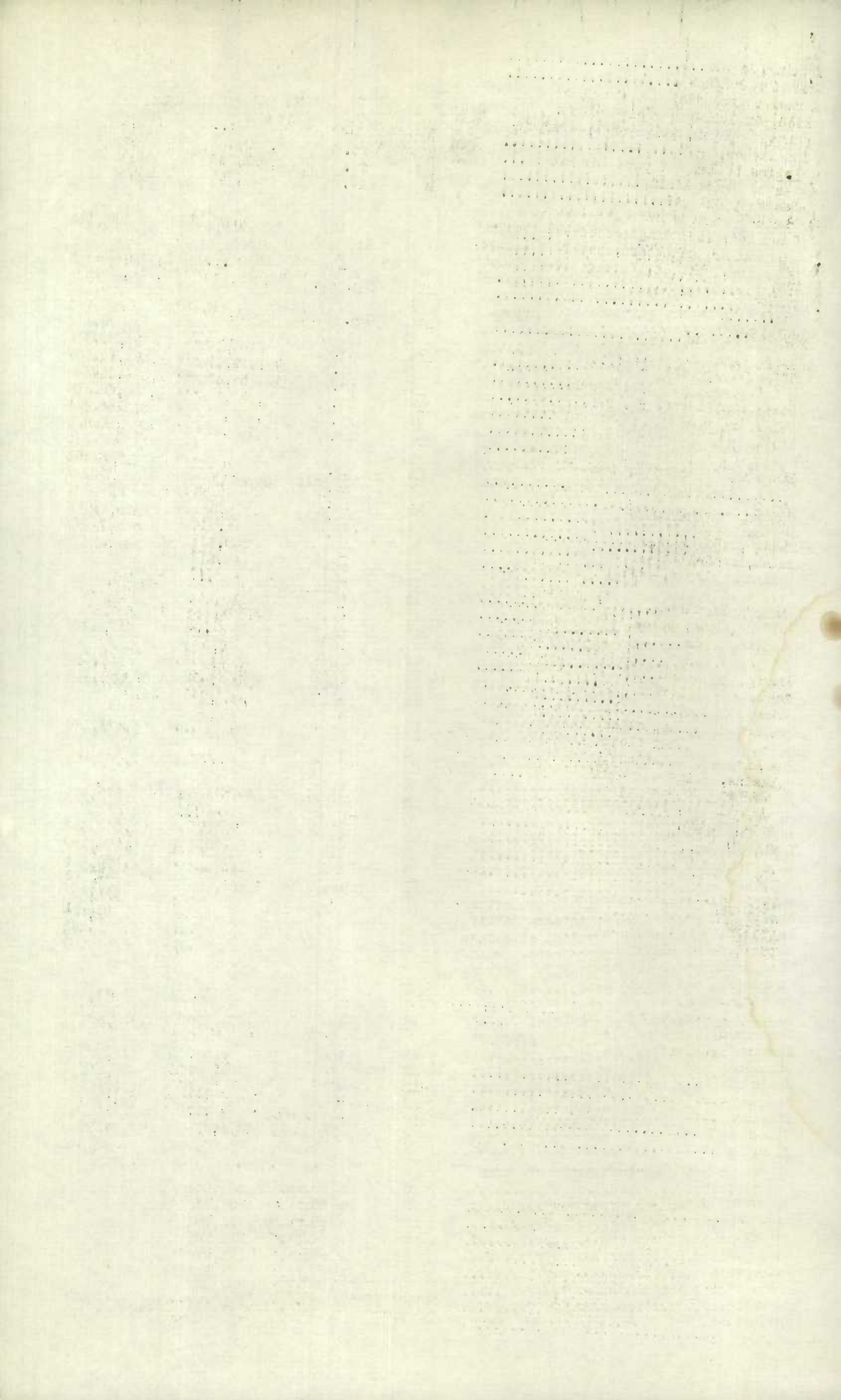




Table 3.- ALPHABETICAL LIST OF PRODUCTS MADE IN ALL INDUSTRIES CLASSIFIED UNDER THE NON-METALLIC MINERAL PRODUCTS INDUSTRY IN CANADA, 1929, (continued)

Product	Industry number (see key on page 6)	Unit of measure	Quantity	Selling value at works
Gas used in heating ovens or retorts in coke or gas plants.....	6	M cu.ft.	7,493,291	1,573,146
Gas used in associated metallurgical works.....	6	M cu.ft.	12,370,553	1,411,670
Gas otherwise accounted for but not sold	6	M cu.ft.	178,092	185,595
Gas, not accounted for.....	6	M cu.ft.	733,779	838,122
Gas, still.....	11	M cu.ft.	3,140,187	708,781
Gasoline.....	11	Imp.gal.	436,620,614	63,502,116
Glass, bent plate.....	7	-	...	23,346
Glass, bent sheet.....	7	-	...	14,952
Glass, bevelled or polished edge plates	7	-	...	1,114,329
Glass, bevelled or polished edge sheet.	7	-	...	99,506
Glass, chipped or edged plate.....	7	-	...	112,254
Glass, chipped or edged sheet.....	7	-	...	32,230
Glass, cut (tumblers, fruit bowls, etc.)	7	-	...	263,161
Glass, leaded, including memorial windows	7	-	...	403,392
Glass vials, etc.....	7	-	...	73,237
Glass, plate mirrors.....	7	-	...	810,201
Glass, pressed and blown.....	8	-	...	11,069,375
Glass, sheet mirrors.....	7	-	...	28,073
Glass products, not elsewhere specified, including non-shatterable plate signs, sheet signs, showcases, display cases, silvered reflectors, store fronts, lenses, lamp shades, framed mirrors, auto windshields, etc.....	7	-	...	932,593
Granite, cut and polished, for building purposes.....	16	-	...	465,185
Grease, lubricating.....	10-11	lb.	17,734,230	408,950
Gypsum products including blocks and tiles, hardwall plasters, crushed rock, wallcoating, wallboard, dry insulex, etc.	17	-	...	3,475,120
Insulators, porcelain.....	13	-	...	2,065,404
Kerosene.....	11	Imp.gal.	49,362,381	6,879,474
Line, hydrated.....	9	ton	93,504	1,200,451
Line, quick.....	9	ton	580,583	4,708,159
Limestone for building purposes.....	16	-	...	2,739,504
Magnesite flooring and stucco.....	19	-	...	174,951
Marble, chips and dust.....	16	-	...	23,802
Marble, cut and polished.....	16	-	...	1,621,112
Mica plate of all kinds.....	20	-	...	41,567
Mica products, not elsewhere specified, including cut or uncut, washers, thin split, tubes, etc.....	20	-	...	67,687
Mineral water, natural (fortified or not)	1	-	...	165,285
Monuments, finished, lettered only.....	16	-	...	785,748
Monuments, granite, cut and polished...	16	-	...	1,815,465
Monuments and bases and cut bases.....	16	-	...	334,004
Monuments, marble, cut and polished....	16	-	...	391,947
Oil, core.....	10-21	Imp.gal.	182,076	80,261
Oils, fuel and gas.....	11	Imp.gal.	448,699,760	17,295,233
Oils, light (toluol, benzol, etc.).....	6	Imp.gal.	6,058,061	874,012
Oils, lubricating.....	10-11	Imp.gal.	24,447,243	4,693,483
Parting, foundry.....	21	lb.	570,379	17,317
Petroleum spirits, including engine distillate, V.M.P. naphtha or solvent.	11	Imp.gal.	7,269,281	975,833
Pipe, drain, cement.....	5	-	...	95,711
Pipe, sewer and culvert, cement.....	5	-	...	1,450,665
Pipe, sewer, clay, including flue linings, copings, etc.....	12-13	-	...	2,155,166
Pottery, glazed or unglazed.....	12-13	-	...	392,354



Table 3.- ALPHABETICAL LIST OF PRODUCTS MADE IN ALL INDUSTRIES CLASSIFIED UNDER THE NON-METALLIC MINERAL PRODUCTS INDUSTRY IN CANADA, 1929 (concluded)

Product	Industry number (see key on page 6)	Unit of Measure	Quantity	Selling value at works
Repairs and custom work.....	3-7-19-21	-	...	\$ 98,742
Salt.....	14	-	...	1,578,086
Silicon carbide, crude.....	2	lb.	43,184,962	2,577,033
Silicon carbide, firesand.....	2	lb.	5,591,042	55,910
Soaps.....	10	lb.	465,064	66,395
Soda fountains.....	7	-	...	140,000
Soda water and other carbonated beverages, non-alcoholic.....	1	-	...	10,874,570
Stone, artificial.....	5	-	...	1,135,823
Syrups and fruit juices.....	1	-	...	1,052,319
Tar.....	6-11	Imp.gal.	30,222,726	1,972,006
Tile, drain.....	12	no.	25,000,013	720,310
Tile, floor and wall.....	13-16	sq.ft.	670,000	197,513
Tile, structural, hollow blocks, including fireproofing and load-bearing tile:-				
Roofing tile.....	12	ton	256,875	2,219,012
Floor tile (quarries).....	12	sq.ft.	307,400	70,156
Wax and candles.....	11	lb.	10,794,609	538,233
All other products.....	1-2-3-4-5-6- 7-8-10-11-12- 13-16-18-21	-	...	2,452,576 <del>2,051,320</del>
GRAND TOTAL.....		-	...	242,023,518

KEY TO NUMBERED INDUSTRIES

<u>Classification</u>	<u>Industry number</u>
Aerated Waters.....	1
Artificial Abrasives and Abrasive Products.....	2
Asbestos and Allied Products.....	3
Cement.....	4
Cement Products.....	5
Coke and Gas.....	6
Glass:-	
Plate, Cut and Ornamental.....	7
Pressed and Blown.....	8
Lime.....	9
Petroleum Products:-	
Lubricating Oils and Greases.....	10
Petroleum Refining.....	11
Products from Domestic Clays.....	12
Products from Imported Clays.....	13
Salt.....	14
Sand-Lime Brick.....	15
Stone, Monumental and Ornamental.....	16
Miscellaneous -	
Gypsum Products.....	17
Graphite and Its Products.....	18
Magnesite Products.....	19
Mica Trimming.....	20
Non-Metallc Mineral Products, n.e.s.....	21

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