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GENERAL REVIEW OF THE MINERAL INDUSTRIES

(MINES, QUARRIES AND OIL WELLS)

1966 and 1967

DOMINION BUREAU OF STATISTICS

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Manufacturing and Primary Industries Division

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INTRODUCTION

Shipments of mineral commodities by Canadian mine operators were valued at \$4,406,356,883 in 1967, an increase of 10.7 per cent over the 1966 value of \$3,980,304,565. The metals group increased 15.1 per cent to \$2,285 million from \$1,985 million. Non-metals increased 11.8 per cent to \$406 million from \$363 million. Mineral or fossil fuels rose 9.4 per cent to \$1,260 million from \$1,152 million. Structural materials was the only group showing a decline in value, amounting to 5.4 per cent from \$481 million to \$455 million.

Using the index base year of 1961 as 100 the quantity index of Real Domestic Product of the mineral industry was 145.2 in 1967 compared to 136.5 in 1966. The volume of ore or rock mined or quarried in 1967 amounted to 379,067,056 tons compared with 349,791,957 tons in 1966. Excluded from these figures were the tonnages of coal mined and the tonnages of sand, gravel, sodium sulphate and similar materials not actually mined or blasted.

The ten leading mineral commodities in order of total value were, in 1967: petroleum, copper, iron ore, nickel, zinc, natural gas, asbestos, sand and gravel, cement, and natural gas by-products. In 1966 these were: petroleum, copper, iron ore, nickel, zinc, natural gas, asbestos, cement, sand and gravel, gold.

Gains in 1967 output, compared to 1966, were recorded in all provinces except Nova Scotia and Quebec. Ontario continued to lead the provinces in value of output accounting for 27.1 per cent of the Canadian total in 1967 and 24.1 per cent in 1966; Alberta was in second place with 22.1 per cent in 1967 and 21.3 per cent in 1966; in third position was Quebec with 16.8 per

cent in 1967 against 19.4 per cent in 1966. Apart from Prince Edward Island the Yukon recorded the biggest percentage gain (25.2) with 1967 output valued at \$15 million in 1967 compared with \$12 million in 1966. Ontario, with 1967 output valued at \$1,194.5 million, showed an increase of 24.7 per cent over the 1966 value of \$957.9 million.

The leading metal, copper, had shipments increase from \$453.5 million in 1966 to \$582.6 million in 1967. Iron ore also showed a substantial gain from \$431.7 million in 1966 to \$470.1 million in 1967. Nickel output went to \$463.1 million from \$377.5 million in the preceding year. Value of zinc shipments in 1967 amounted to \$322.1 million compared with \$291.1 million in 1966. As in prior years gold output continued to decline dropping from \$125.2 million in 1966 to \$112.7 million in 1967 — this drop being partly accounted for by the shut down of additional gold mines.

Value of non-metals increased to \$406.3 million from \$363.4 million in the previous year with the increases being largely accounted for by sulphur, potash, salt and titanium dioxide.

Mineral or fossil fuels were valued at \$1,260.1 million in 1967, an increase of 9.4 per cent over the preceding year. The greatest increase was accounted for by a substantial boost in petroleum output in Alberta.

Output of structural materials, in 1967, was valued at \$454.7 million, a 5.4 per cent decrease from the 1966 value of \$480.6 million. While the value of domestic clay products showed a slight increase this was more than offset by decreases in cement, stone as well as sand and gravel and lime.

SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- . . figures not available.
- . . . figures not appropriate or not applicable.
- nil or zero.
- - amount too small to be expressed.
- P preliminary figures.
- † revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

EXPLANATORY NOTES

Establishment

The reporting unit in the Census of Mines, Quarries and Oil Wells is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

- Materials and supplies used,
- Goods purchased for resale as such,
- Fuel and power consumed,
- Number of employees and their pay,
- Inventories,
- Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A mining establishment is typically a mine, mine/mill, quarry, pit or bog principally engaged in mining operations. Prior to 1961, the Census of Mines, Quarries and Oil Wells attempted to cover the mining activities of all establishments, whether or not they were principally engaged in mining operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in mining are no longer included as mining establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957 - 60. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in mining establishments, many

non-mining establishments are now surveyed for commodity information only and the latter are included in the appropriate tables of industry reports.

Head Offices and Auxiliary Units

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Mines, Quarries and Oil Wells.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Mines, Quarries and Oil Wells as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

TABLE 1. Mineral Production of Canada, by Kinds, 1966 and 1967

	1966		1967		
	Quantity	Value	Quantity	Value	
		dollars		dollars	
Metallics:					
Antimony	lb.	1,405,681	745,011	1,267,686	671,874
Bismuth	"	525,659	1,971,886	668,476	1,918,951
Cadmium	"	3,236,862	8,351,103	4,836,317	13,541,688
Calcium	"	249,179	245,125	543,692	535,509
Cobalt	"	3,511,169	7,107,963	3,603,773	7,352,433
Columbium (Cb ₂ O ₃)	"	2,637,997	3,182,170	2,159,557	2,404,475
Copper	"	1,012,152,458	453,523,980	1,226,627,725	582,585,272
Gold	troy oz.	3,319,474	125,177,364	2,986,268	112,731,618
Indium .....	"	..	..	..	..
Iron ore	ton	40,690,723	431,659,083	42,317,800	470,121,685
Iron, remelt	"	..	17,421,215	..	18,584,745
Lead	lb.	601,244,120	89,827,072	635,926,511	89,029,711
Magnesium	"	13,445,701	4,175,743	17,774,684	5,653,243
Mercury .....	"	..	..	..	..
Molybdenum	lb.	20,596,044	34,670,593	21,376,766	37,900,039
Nickel	"	447,219,823	377,479,471	497,294,289	463,139,703
Platinum, group	troy oz.	396,059	32,370,064	401,263	34,668,915
Selenium	lb.	575,482	2,791,087	724,573	3,514,179
Silver	troy oz.	33,417,874	46,751,605	36,315,189	62,897,907
Tellurium	lb.	72,239	469,553	73,219	475,925
Thorium	"	87,393	210,528	117,383	214,597
Tin	"	710,752	916,870	437,804	621,682
Tungsten (WO ₃) .....	"	..	..	..	..
Uranium (U ₃ O ₈)	lb.	7,863,890	54,334,787	7,476,228	53,021,936
Yttrium	"	20,724	130,223	172,551	1,594,298
Zinc	"	1,928,212,425	291,160,076	2,222,906,092	322,099,092
Total metallics .....	..	..	1,984,672,572	..	2,285,279,477
Non-metallics:					
Arsenious oxide	lb.	701,537	35,610	755,050	48,193
Asbestos	ton	1,489,055	163,654,863	1,452,104	165,118,786
Barite	"	221,376	2,199,054	172,270	1,573,370
Biotite	"	70	3,755	..	..
Feldspar	"	10,924	254,714	10,394	241,715
Glaucophane	"	..	1,895,754	..	2,099,855
Gneiss	lb.	11,633	13,225	24,160	28,341
Granite	ton	5	1,500	10	3,000
Gypsum	"	5,976,164	12,312,220	5,175,384	11,348,351
Helium .....	"	..	..	..	..
Iron oxides	ton	390	10,199	664	37,023
Lithia	lb.	253,566	260,611	436,894	266,226
Magnesitic dolomite and brucite	"	..	3,948,599	..	3,515,917
Mica	lb.	540,720	18,415	..	..
Nepheline syenite	ton	366,696	4,109,744	401,601	4,752,875
Nitrogen .....	"	..	..	..	..
Peat moss	ton	284,572	7,187,254	280,731	8,006,091
Phosphate .....	"	..	..	..	..
Potash (K ₂ O)	ton	1,990,053	62,664,666	2,383,253	67,395,461
Pozzolan .....	"	..	..	..	..
Pyrite, pyrrhotite	ton	326,954	1,139,141	377,941	1,702,518
Quartz	"	2,299,660	5,514,041	2,610,740	5,530,044
Salt	"	4,128,822	23,846,188	4,995,628	27,808,129
Soapstone and talc ¹	"	70,144	1,036,450	60,665	900,985
Sodium sulphate	"	405,314	6,471,795	428,316	6,359,039
Sulphur, in smelter gas	"	500,338	6,050,750	592,035	7,182,139
Sulphur, elemental	"	2,041,528	40,253,685	2,499,205	68,613,866
Titanium dioxide, etc.	"	..	20,505,484	..	23,737,330
Total non-metallics .....	..	..	363,387,717	..	406,269,252
Mineral - Fuels:					
Coal	ton	11,391,569	81,559,794	11,395,754	82,759,916
Natural gas	Mcf.	1,341,831,241	178,183,990	1,471,735,152	197,983,450
Natural gas by-products ²	bbl.	49,241,806	102,544,481	53,355,552	113,412,982
Petroleum (crude oil and condensate)	"	320,549,259	789,306,389	351,287,792	865,991,445
Total fuels .....	..	..	1,151,594,654	..	1,260,147,793
Structural materials:					
Clay products (brick, tile, etc.)	"	..	42,956,085	..	44,356,825
Cement	ton	8,930,552	156,300,622	7,994,954	143,150,284
Lime	"	1,555,037	18,339,724	1,422,899	16,567,197
Sand and gravel	"	218,271,189	152,064,482	215,212,700	146,697,783
Stone	"	95,822,054	110,968,709	84,007,308	103,888,272
Total structural materials .....	..	..	480,649,622	..	454,660,361
Grand totals .....	..	..	3,980,304,565	..	4,406,356,883

¹ Includes pyrophyllite.² Includes propane, butane and pentane plus.

TABLE 2 A. Mineral Production of Canada, by Province, 1966

No.		Newfound- land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Metals:						
1	Antimony	lb.	—	—	—	—
2	\$	—	—	—	—	—
3	Bismuth	lb.	—	—	—	471,912
4	\$	—	—	—	—	1,757,157
5	Cadmium	lb.	—	—	37,584	286,302
6	\$	—	—	—	96,967	738,659
7	Calcium	lb.	—	—	—	—
8	\$	—	—	—	—	—
9	Cobalt	lb.	—	—	—	84,022
10	\$	—	—	—	—	181,488
11	Columbium (Cb ₂ O ₃)	lb.	—	—	—	2,637,997
12	\$	—	—	—	—	3,182,170
13	Copper	lb.	38,787,069	—	230,773	14,178,625
14	\$	17,415,394	—	103,617	6,366,203	343,996,943
15	Gold	oz.	25,667	—	20	154,454,627
16	\$	967,903	—	754	73,648	935,459
17	Indium	—	—	—	—	35,276,158
18	\$	—	—	—	—	—
19	Iron ore	ton	16,546,189	—	—	13,848,441
20	\$	188,603,259	—	—	—	130,348,844
21	Iron, remelt	—	—	—	—	..
22	\$	—	—	—	—	17,421,215
23	Lead	lb.	43,508,408	—	2,976,305	103,728,634
24	\$	6,500,156	—	444,660	15,497,058	7,817,769
25	Magnesium	lb.	—	—	—	1,167,975
26	\$	—	—	—	—	—
27	Mercury	—	—	—	—	—
28	\$	—	—	—	—	—
29	Molybdenum	lb.	—	—	—	3,501,117
30	\$	—	—	—	—	7,064,004
31	Nickel	lb.	—	—	—	7,950,645
32	\$	—	—	—	—	6,813,703
33	Platinum group	oz.	—	—	—	—
34	\$	—	—	—	—	—
35	Selenium	lb.	—	—	—	342,151
36	\$	—	—	—	—	1,659,432
37	Silver	oz.	1,097,425	—	540,663	3,108,669
38	\$	1,535,298	—	756,388	4,349,028	5,214,146
39	Tellurium	lb.	—	—	—	7,294,590
40	\$	—	—	—	—	56,421
41	Thorium	lb.	—	—	—	366,736
42	\$	—	—	—	—	—
43	Tin	lb.	—	—	—	—
44	\$	—	—	—	—	—
45	Titanium ore	—	—	—	—	—
46	\$	—	—	—	—	—
47	Tungsten (WO ₃)	—	—	—	—	—
48	\$	—	—	—	—	—
49	Uranium (U ₃ O ₈)	lb.	—	—	—	—
50	\$	—	—	—	—	—
51	Yttrium	lb.	—	—	—	—
52	\$	—	—	—	—	—
53	Zinc	lb.	68,320,955	—	1,355,574	284,790,664
54	\$	10,316,464	—	204,692	43,003,390	586,294,976
55	Total metals	\$	225,338,474	—	1,510,111	69,386,294
Non-metallics:						
56	Arsenious oxide	lb.	—	—	—	—
57	\$	—	—	—	—	—
58	Asbestos	ton	57,097	—	—	1,341,491
59	\$	9,301,204	—	—	—	138,570,399
60	Barite	ton	—	—	199,488	—
61	\$	—	—	2,022,814	—	—
62	Diatomite	ton	—	—	—	—
63	\$	—	—	—	—	—
64	Feldspar	ton	—	—	—	10,924
65	\$	—	—	—	—	254,714
66	Fluorspar .....	..	—	—	—	—
67	\$	1,890,768	—	—	—	—
68	Gem stones	lb.	—	—	—	—
69	\$	—	—	—	—	—
70	Grindstone	ton	—	—	—	5
71	\$	—	—	—	1,500	—

TABLE 2 A. Mineral Production of Canada, by Province, 1966

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Northwest Territories	Canada	No.
—	—	—	—	1,405,681	—	—	1,405,681	1
—	—	—	—	745,011	—	—	745,011	2
6,312	—	—	—	47,435	—	—	525,659	3
15,881	—	—	—	198,848	—	—	1,971,886	4
217,237	192,863	141,171	—	1,169,570	118,735	1,073,400	3,236,862	5
560,471	497,586	364,221	—	3,017,491	306,336	2,769,372	8,351,103	6
249,179	—	—	—	—	—	—	249,179	7
245,125	—	—	—	—	—	—	245,125	8
2,684,235	742,912	—	—	—	—	—	3,511,169	9
5,464,495	1,461,980	—	—	—	—	—	7,107,963	10
—	—	—	—	—	—	—	2,637,997	11
—	—	—	—	—	—	—	3,182,170	12
405,951,287	62,629,571	39,121,774	—	105,759,611	—	1,496,805	1,012,152,458	13
181,375,552	28,120,677	17,565,676	—	47,450,169	—	672,065	453,523,980	14
1,660,750	64,565	42,678	182	120,705	43,466	424,029	3,319,474	15
62,626,883	2,434,746	1,609,387	6,863	4,551,786	1,639,103	15,990,133	125,177,364	16
—	—	—	—	..	—	—	..	17
—	—	—	—	..	—	—	..	18
8,144,289	—	—	—	2,151,804	—	—	40,690,723	19
91,700,740	—	—	—	21,006,240	—	—	431,659,083	20
—	—	—	—	—	—	—	..	21
—	—	—	—	—	—	—	17,421,215	22
3,970,467	1,113,596	—	—	211,494,096	15,975,125	210,659,720	601,244,120	23
593,188	166,371	—	—	31,598,418	2,386,684	31,472,562	89,827,072	24
13,445,701	—	—	—	—	—	—	13,445,701	25
4,175,743	—	—	—	—	—	—	4,175,743	26
—	—	—	—	—	—	—	—	27
—	—	—	—	—	—	—	—	28
—	—	—	—	17,094,927	—	—	20,596,044	29
—	—	—	—	27,606,589	—	—	34,670,593	30
320,428,750	115,623,251	29,465	—	3,187,712	—	—	447,219,823	31
269,461,584	98,447,063	25,252	—	2,731,869	—	—	377,479,471	32
395,952	..	107	—	—	—	—	396,059	33
32,363,556	..	6,508	—	—	—	—	32,370,064	34
111,000	61,513	60,818	—	—	—	—	575,482	35
538,350	298,338	294,967	—	—	—	—	2,791,087	36
10,900,204	547,797	603,358	17	5,548,823	4,194,580	1,662,192	33,417,874	37
15,249,385	766,368	844,098	23	7,762,803	5,868,217	2,325,407	46,751,605	38
9,000	3,428	3,390	—	—	—	—	72,239	39
58,500	22,282	22,035	—	—	—	—	469,553	40
87,393	—	—	—	—	—	—	87,393	41
210,528	—	—	—	—	—	—	210,528	42
—	—	—	—	710,752	—	—	710,752	43
—	—	—	—	916,870	—	—	916,870	44
—	—	—	—	—	—	—	—	45
—	—	—	—	—	—	—	—	46
—	—	—	—	—	—	—	..	47
—	—	—	—	—	—	—	..	48
5,875,698	—	1,987,992	—	—	—	—	7,863,690	49
42,758,135	—	11,576,652	—	—	—	—	54,334,787	50
20,724	—	—	—	—	—	—	20,724	51
130,223	—	—	—	—	—	—	130,223	52
164,789,837	69,933,212	57,818,857	—	305,124,440	11,450,510	378,333,400	1,028,212,425	53
24,883,265	10,559,915	8,730,647	—	46,073,790	1,729,027	57,128,344	291,160,076	54
732,411,604	142,775,326	41,039,443	6,886	193,659,884	11,929,367	110,357,883	1,984,672,572	55
701,537	—	—	—	—	—	—	701,537	56
35,610	—	—	—	—	—	—	35,610	57
1,696	—	—	—	88,771	—	—	1,489,055	58
64,519	—	—	—	15,718,741	—	—	163,654,863	59
—	—	—	—	21,888	—	—	221,376	60
—	—	—	—	176,240	—	—	2,199,054	61
—	—	—	—	70	—	—	70	62
—	—	—	—	3,755	—	—	3,755	63
—	—	—	—	—	—	—	10,924	64
—	—	—	—	—	—	—	254,714	65
—	—	—	—	..	—	—	..	66
—	—	—	—	4,986	—	—	1,895,754	67
—	—	—	—	11,633	—	—	11,633	68
—	—	—	—	13,225	—	—	13,225	69
—	—	—	—	—	—	—	5	70
—	—	—	—	—	—	—	1,500	71

TABLE 2 A. Mineral Production of Canada, by Province, 1966 - Concluded

No.		Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Non-metallics - Concluded:						
1	Gypsum..... ton	459,685	-	4,502,836	108,207	-
2	\$	1,173,401	-	8,140,651	413,074	-
3	Helium.....	-	-	-	-	-
4		-	-	-	-	-
5	Iron oxide..... ton	-	-	-	-	390
6	\$	-	-	-	-	10,199
7	Lithia..... lb.	-	-	-	-	253,566
8	\$	-	-	-	-	260,611
9	Magnesitic dolomite and brucite.....	-	-	-	-	-
10	\$	-	-	-	-	3,948,599
11	Mica..... lb.	-	-	-	-	339,800
12	\$	-	-	-	-	14,048
13	Nepheline syenite..... ton	-	-	-	-	-
14	\$	-	-	-	-	-
15	Nitrogen.....	-	-	-	-	-
16		-	-	-	-	-
17	Peat moss..... ton	-	-	9,359	66,610	117,231
18	\$	-	-	196,757	1,480,418	2,414,762
19	Potash (K ₂ O)..... ton	-	-	-	-	-
20	\$	-	-	-	-	-
21	Pyrite, pyrrhotite..... ton	-	-	-	-	-
22	\$	-	-	-	-	1,098,819
23	Quartz..... ton	-	-	8,638	-	529,112
24	\$	-	-	40,032	-	3,340,066
25	Salt..... ton	-	-	474,981	-	-
26	\$	-	-	4,724,993	-	-
27	Soapstone, talc, pyrophyllite..... ton	40,548	-	-	-	16,087
28	\$	608,220	-	-	-	208,306
29	Sodium sulphate..... ton	-	-	-	-	-
30	\$	-	-	-	-	-
31	Sulphur, in smelter gas..... ton	11	-	-	-	67,874
32	\$	76	-	-	-	471,214
33	Sulphur, elemental..... ton	-	-	-	-	-
34	\$	-	-	-	-	-
35	Titanium dioxide, etc.....	-	-	-	-	-
36	\$	-	-	-	-	20,505,484
37	Total non-metallics..... \$	12,973,669	-	15,125,247	1,894,992	171,097,221
Fuels:						
38	Coal..... ton	-	-	3,854,534	898,315	-
39	\$	-	-	51,518,674	7,892,427	-
40	Natural gas..... Mcf.	-	-	-	97,403	-
41	\$	-	-	-	89,913	-
42	Natural gas by-products ¹ bbl.	-	-	-	-	-
43	\$	-	-	-	-	-
44	Petroleum (crude oil and condensate) bbl.	-	-	-	6,853	-
45	\$	-	-	-	9,591	-
46	Total fuels..... \$	-	-	51,518,674	7,991,931	-
Structural materials:						
47	Clay products..... \$	172,700	-	1,525,004	618,651	6,278,308
48	Cement..... ton	63,541	-	187,225	249,032	2,935,987
49	\$	1,632,982	-	3,143,670	4,141,046	47,872,474
50	Lime..... ton	-	-	-	3,734	344,243
51	\$	-	-	-	100,089	3,750,568
52	Sand and gravel..... ton	3,599,421	660,726	8,109,366	5,367,393	50,238,532
53	\$	3,584,261	862,513	10,756,417	2,990,458	23,815,735
54	Stone..... ton	153,000	200,000	605,458	3,544,301	59,911,822
55	\$	318,000	200,000	1,837,851	3,084,172	62,108,030
56	Total structural materials..... \$	5,707,943	1,062,513	17,262,942	10,934,416	143,825,115
57	Grand totals, 1966..... \$	244,020,086	1,062,513	85,416,974	90,207,633	771,179,636
58	Grand totals, 1965..... \$	207,557,627	599,387	70,771,827	82,164,344	715,900,973

¹ Includes butane, propane and pentane plus.

TABLE 2A. Mineral Production of Canada, by Province, 1966 - Concluded

Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories	Canada	No.
565,185	134,225	—	—	206,026	—	—	5,976,164	1
1,581,010	427,211	—	—	576,873	—	—	12,312,220	2
—	—	—	—	—	—	—	..	3
—	—	—	—	—	—	—	..	4
—	—	—	—	—	—	—	390	5
—	—	—	—	—	—	—	10,199	6
—	—	—	—	—	—	—	253,566	7
—	—	—	—	—	—	—	260,611	8
—	—	—	—	—	—	—	..	9
200,920	—	—	—	—	—	—	3,948,599	10
4,367	—	—	—	—	—	—	540,720	11
366,696	—	—	—	—	—	—	18,415	12
4,109,744	—	—	—	—	—	—	366,696	13
—	—	..	—	—	—	—	4,109,744	14
—	—	..	—	—	—	—	..	15
1,700	20,464	800	6,515	61,893	—	—	284,572	16
30,000	518,195	17,500	121,093	2,408,529	—	—	7,187,254	17
—	—	1,990,053	—	—	—	—	1,990,053	18
—	—	62,664,666	—	—	—	—	62,664,666	19
—	—	—	—	..	—	—	326,954	20
—	—	—	—	40,322	—	—	1,139,141	21
1,161,057	393,204	183,750	—	23,899	—	—	2,299,660	22
902,089	969,742	149,938	—	112,174	—	—	5,514,041	23
3,418,979	27,069	84,979	122,814	—	—	—	4,128,822	24
15,243,719	660,894	1,443,635	1,772,947	—	—	—	23,846,188	25
13,509	—	—	—	—	—	—	70,144	26
219,924	—	—	—	—	—	—	1,036,450	27
—	—	405,314	—	—	—	—	405,314	28
—	—	6,471,795	—	—	—	—	6,471,795	29
160,613	—	—	—	271,840	—	—	500,338	30
1,501,860	—	—	—	4,077,600	—	—	6,050,750	31
546	4,217	36,384	1,933,920	66,461	—	—	2,041,528	32
15,949	60,683	1,235,792	37,224,660	1,716,601	—	—	40,253,685	33
—	—	—	—	—	—	—	..	34
—	—	—	—	—	—	—	20,505,484	35
23,708,791	2,636,725	71,983,326	39,118,700	24,849,046	—	—	363,387,717	36
—	—	2,078,165	3,467,254	1,087,631	5,670	—	11,391,569	37
—	—	3,717,586	11,947,258	6,437,459	46,390	—	81,559,794	38
15,537,395	—	49,867,762	1,090,691,124	185,591,319	—	46,238	1,341,831,241	39
5,939,946	—	6,122,521	146,609,428	19,402,660	—	19,522	178,183,990	40
—	—	1,344,189	46,082,546	1,815,071	—	—	49,241,806	41
—	—	2,385,483	96,677,184	3,481,814	—	—	102,544,481	42
1,323,781	5,230,712	93,218,119	203,339,433	16,680,707	—	749,654	320,549,259	43
4,230,278	13,057,426	211,797,159	522,989,385	36,360,605	—	861,945	789,306,389	44
10,170,224	13,057,426	224,022,749	778,223,255	65,682,538	46,390	881,467	1,151,594,654	45
25,799,667	487,172	1,395,489	3,422,614	3,256,480	—	—	42,956,085	46
3,242,591	508,152	214,145	822,360	707,519	—	—	8,930,552	47
52,680,630	10,221,927	4,963,191	15,685,259	15,959,443	—	—	156,300,622	48
1,078,350	55,835	—	72,875	—	—	—	1,555,037	49
12,232,867	939,643	—	1,316,557	—	—	—	18,339,724	50
94,123,982	9,675,796	8,314,360	12,886,213	24,295,400	—	—	218,271,189	51
67,245,821	5,806,203	5,089,410	10,298,933	21,634,731	—	—	152,084,482	52
25,702,843	2,022,876	—	144,433	3,537,321	—	—	95,822,054	53
23,602,286	3,417,682	—	544,737	5,855,951	—	—	110,968,709	54
191,561,271	20,872,627	11,448,090	31,268,100	46,706,605	—	—	480,649,622	55
957,851,890	179,342,104	348,493,608	848,616,941	330,898,073	11,975,757	111,239,350	3,980,304,565	56
993,730,951	182,143,774	328,753,797	761,831,887	280,156,052	13,400,535	77,456,418	3,714,467,572	57

TABLE 2 B. Mineral Production of Canada, by Province, 1967

No.		Newfound- land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Metals:						
1	Antimony	lb.	—	—	—	—
2		\$	—	—	—	—
3	Bismuth	lb.	—	—	—	521,697
4		\$	—	—	—	1,327,661
5	Cadmium	lb.	12,242	—	51,600	411,656
6		\$	34,278	—	144,480	1,152,637
7	Calcium	lb.	—	—	—	—
8		\$	—	—	—	—
9	Cobalt	lb.	—	—	—	34,801
10		\$	—	—	—	75,170
11	Columbium (Cb ₂ O ₅)	lb.	—	—	—	2,159,557
12		\$	—	—	—	2,404,475
13	Copper	lb.	43,930,114	—	56,570	11,572,389
14		\$	20,897,555	—	26,910	5,504,985
15	Gold	oz.	27,258	—	1	1,421
16		\$	1,028,989	—	38	53,643
17	Indium	—	—	—	—	—
18	Iron ore	ton	16,981,567	—	—	14,532,027
19		\$	207,408,843	—	—	141,814,861
20	Iron, remelt	ton	—	—	—	—
21		\$	—	—	—	18,584,745
22	Lead	lb.	39,880,687	—	794,466	94,032,753
23		\$	5,583,296	—	111,225	13,164,585
24	Magnesium	lb.	—	—	—	—
25		\$	—	—	—	—
26	Mercury	—	—	—	—	—
27		\$	—	—	—	—
28	Molybdenum	lb.	—	—	—	3,551,846
29		\$	—	—	—	6,531,450
30	Nickel	lb.	—	—	—	3,244,162
31		\$	—	—	—	3,062,499
32	Platinum group	oz.	—	—	—	—
33		\$	—	—	—	—
34	Selenium	lb.	—	—	—	521,174
35		\$	—	—	—	2,527,694
36	Silver	oz.	1,073,153	—	89,238	3,017,416
37		\$	1,858,701	—	154,560	5,226,165
38	Tellurium	lb.	—	—	—	8,069,790
39		\$	—	—	—	56,685
40	Thorium	lb.	—	—	—	368,453
41		\$	—	—	—	—
42	Tin	lb.	—	—	—	—
43		\$	—	—	—	—
44	Titanium ore	—	—	—	—	—
45		\$	—	—	—	—
46	Tungsten (WO ₃)	—	—	—	—	—
47		\$	—	—	—	—
48	Uranium (U ₃ O ₈)	lb.	—	—	—	—
49		\$	—	—	—	—
50	Yttrium	lb.	—	—	—	—
51		\$	—	—	—	—
52	Zinc	lb.	69,702,559	—	46,290	302,713,881
53		\$	10,099,901	—	6,707	43,863,241
54		\$	—	—	—	491,766,159
55	Total metals	\$	246,911,563	—	299,440	67,957,099
56		\$	—	—	—	41,256,916
57	Total metals	\$	246,911,563	—	299,440	67,957,099
58	Total metals	\$	246,911,563	—	299,440	67,957,099
59	Total metals	\$	246,911,563	—	299,440	67,957,099
60	Total metals	\$	246,911,563	—	299,440	67,957,099
61	Total metals	\$	246,911,563	—	299,440	67,957,099
62	Total metals	\$	246,911,563	—	299,440	67,957,099
63	Total metals	\$	246,911,563	—	299,440	67,957,099
64	Total metals	\$	246,911,563	—	299,440	67,957,099
65	Total metals	\$	246,911,563	—	299,440	67,957,099
66	Total metals	\$	246,911,563	—	299,440	67,957,099
67	Total metals	\$	246,911,563	—	299,440	67,957,099
68	Total metals	\$	246,911,563	—	299,440	67,957,099
69	Total metals	\$	246,911,563	—	299,440	67,957,099
70	Total metals	\$	246,911,563	—	299,440	67,957,099
71	Total metals	\$	246,911,563	—	299,440	67,957,099
Non-metallics:						
56	Arsenious oxide	lb.	—	—	—	—
57		\$	—	—	—	—
58	Asbestos	ton	63,725	—	—	1,292,296
59		\$	10,499,143	—	—	136,481,924
60	Barite	ton	—	—	148,804	—
61		\$	—	—	1,396,488	—
62	Diatomite	—	—	—	—	—
63		\$	—	—	—	—
64	Feldspar	ton	—	—	—	10,394
65		\$	—	—	—	241,715
66	Fluorspar	—	—	—	—	—
67		\$	2,097,391	—	—	—
68	Gem stones	lb.	—	—	—	—
69		\$	—	—	—	—
70	Grindstone	ton	—	—	—	10
71		\$	—	—	—	3,000

TABLE 2 B. Mineral Production of Canada, by Province, 1967

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Northwest Territories	Canada	No.
-	-	-	-	1,267,686	-	-	1,267,686	1
-	-	-	-	671,874	-	-	671,874	2
4,272	-	-	-	142,507	-	-	668,476	3
18,412	-	-	-	572,878	-	-	1,918,951	4
2,024,006	204,766	134,332	-	991,316	94,999	911,400	4,836,317	5
5,667,217	573,345	376,129	-	2,775,685	265,997	2,551,920	13,541,688	6
543,692	-	-	-	-	-	-	543,692	7
535,509	-	-	-	-	-	-	535,509	8
2,929,470	639,502	-	-	-	-	-	3,603,773	9
5,967,044	1,310,219	-	-	-	-	-	7,352,433	10
-	-	-	-	-	-	-	2,159,557	11
-	-	-	-	-	-	-	2,404,475	12
552,291,827	59,119,602	45,949,225	-	172,638,580	7,167,919	1,131,126	1,226,627,725	13
261,814,899	28,123,194	21,858,046	-	82,112,961	3,409,779	538,077	582,585,272	14
1,495,385	53,945	47,895	146	126,823	17,900	380,304	2,986,268	15
56,450,784	2,036,424	1,808,036	5,512	4,787,568	675,725	14,356,476	112,731,618	16
-	-	-	-	..	-	-	..	17
-	-	-	-	..	-	-	..	18
8,649,763	-	-	-	2,154,443	-	-	42,317,800	19
99,903,925	-	-	-	20,994,056	-	-	470,121,685	20
-	-	-	-	-	-	-	..	21
-	-	-	-	-	-	-	18,584,745	22
11,058,534	3,569,976	3,119,353	-	207,653,727	15,299,709	254,753,820	635,926,511	23
1,548,195	499,797	436,709	-	29,071,522	2,141,959	35,665,535	89,029,711	24
17,774,684	-	-	-	-	-	-	17,774,684	25
5,653,243	-	-	-	-	-	-	5,653,243	26
-	-	-	-	-	-	-	-	27
-	-	-	-	-	-	-	-	28
-	-	-	-	17,824,920	-	-	21,376,766	29
-	-	-	-	31,368,589	-	-	37,900,039	30
330,117,521	109,427,373	324,391	-	4,180,842	-	-	497,294,289	31
332,238,885	103,585,379	306,225	-	3,946,715	-	-	463,139,703	32
399,898	..	1,365	-	-	-	-	401,263	33
34,580,361	..	88,554	-	-	-	-	34,668,915	34
134,800	31,274	37,325	-	-	-	-	724,573	35
653,780	151,679	181,026	-	-	-	-	3,514,179	36
14,309,391	629,311	605,215	14	6,082,617	3,869,374	1,980,228	36,315,189	37
24,783,864	1,089,967	1,048,232	24	10,535,093	6,701,756	3,429,755	62,897,907	38
6,500	4,575	5,459	-	-	-	-	73,219	39
42,250	29,738	35,484	-	-	-	-	475,925	40
117,383	-	-	-	-	-	-	117,383	41
214,597	-	-	-	-	-	-	214,597	42
-	-	-	-	437,804	-	-	437,804	43
-	-	-	-	621,682	-	-	621,682	44
-	-	-	-	-	-	-	-	45
-	-	-	-	-	-	-	-	46
-	-	-	-	-	-	-	..	47
-	-	-	-	-	-	-	..	48
5,450,639	-	2,025,589	-	-	-	-	7,476,228	49
41,418,268	-	11,603,668	-	-	-	-	53,021,936	50
172,551	-	-	-	-	-	-	172,551	51
1,594,298	-	-	-	-	-	-	1,594,298	52
537,064,861	72,516,726	56,823,363	-	262,830,908	9,476,545	419,964,800	2,222,906,092	53
77,820,698	10,507,674	8,233,705	-	38,084,199	1,373,151	60,852,900	322,099,092	54
970,906,229	147,907,416	45,975,814	5,536	225,542,822	14,568,367	117,394,663	2,285,279,477	55
755,050	-	-	-	-	-	-	755,050	56
48,193	-	-	-	-	-	-	48,193	57
1,631	-	-	-	92,192	2,260	-	1,452,104	58
61,240	-	-	-	17,670,108	406,371	-	165,118,786	59
-	-	-	-	23,466	-	-	172,270	60
-	-	-	-	176,882	-	-	1,573,370	61
-	-	-	-	..	-	-	..	62
-	-	-	-	..	-	-	..	63
-	-	-	-	-	-	-	10,394	64
-	-	-	-	-	-	-	241,715	65
-	-	-	-	..	-	-	..	66
-	-	-	-	2,464	-	-	2,099,855	67
4,000	-	-	-	20,160	-	-	24,160	68
4,000	-	-	-	24,341	-	-	28,341	69
-	-	-	-	-	-	-	10	70
-	-	-	-	-	-	-	3,000	71

TABLE 2B. Mineral Production of Canada, by Province, 1967 - Concluded

No.		Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	
Non-metallics - Concluded:							
1	Gypsum	ton	439,156	—	3,757,329	88,641	—
2		\$	1,068,604	—	7,798,930	182,000	—
3	Helium		—	—	—	—	—
4			—	—	—	—	—
5	Iron oxide	ton	—	—	—	—	664
6		\$	—	—	—	—	37,023
7	Lithia	lb.	—	—	—	—	436,894
8		\$	—	—	—	—	266,226
9	Magnesitic dolomite and brucite		—	—	—	—	..
10		\$	—	—	—	—	3,515,917
11	Mica		—	—	—	—	..
12			—	—	—	—	..
13	Nepheline syenite	ton	—	—	—	—	—
14		\$	—	—	—	—	—
15	Nitrogen		—	—	—	—	—
16			—	—	—	—	—
17	Peat moss	ton	—	—	11,681	78,315	106,996
18		\$	—	—	359,991	2,016,500	2,642,507
19	Phosphate		—	—	—	—	—
20			—	—	—	—	—
21	Potash (K ₂ O)	ton	—	—	—	—	—
22		\$	—	—	—	—	—
23	Pyrite, pyrrhotite	ton	—	—	—	—	..
24		\$	—	—	—	—	1,579,876
25	Quartz	ton	—	—	9,455	—	689,477
26		\$	—	—	51,942	—	3,255,614
27	Salt	ton	—	—	446,865	—	—
28		\$	—	—	4,845,047	—	—
29	Soapstone, talc, pyrophyllite	ton	..	—	—	—	..
30		\$	443,640	—	—	—	228,695
31	Sodium sulphate	ton	—	—	—	—	—
32		\$	—	—	—	—	—
33	Sulphur, in smelter gas	ton	1,377	—	—	22,565	81,733
34		\$	13,770	—	—	225,650	817,330
35	Sulphur, elemental	ton	—	—	—	—	—
36		\$	—	—	—	—	—
37	Titanium dioxide, etc.		—	—	—	—	..
38		\$	—	—	—	—	23,737,330
39	Total non-metallics	\$	14,122,548	—	14,452,398	2,427,150	172,804,157
Fuels:							
40	Coal	ton	—	—	3,738,487	837,963	—
41		\$	—	—	51,681,004	7,489,617	—
42	Natural gas	Mcf.	—	—	—	103,877	59,130
43		\$	—	—	—	88,002	8,870
44	Natural gas by-products ¹	bbl.	—	—	—	—	—
45		\$	—	—	—	—	—
46	Petroleum (crude oil and condensate)	bbl.	—	—	—	8,837	—
47		\$	—	—	—	12,372	—
48	Total fuels	\$	—	—	51,681,004	7,589,991	8,870
Structural materials:							
49	Clay products	\$	199,570	—	1,390,252	566,500	5,611,049
50	Cement	ton	82,217	—	212,927	230,070	2,284,323
51		\$	1,744,284	—	3,770,834	3,904,288	34,997,061
52	Lime	ton	—	—	—	2,882	337,374
53		\$	—	—	—	77,245	3,492,396
54	Sand and gravel	ton	3,143,938	1,327,600	6,056,265	7,604,962	45,012,646
55		\$	3,086,688	1,155,852	3,912,213	4,382,988	21,753,139
56	Stone	ton	240,000	725,383	585,015	3,265,148	47,764,482
57		\$	300,496	619,149	1,720,001	3,534,911	54,958,523
58	Total structural materials	\$	5,331,038	1,775,001	10,793,300	12,465,932	120,812,168
59	Grand totals, 1967	\$	266,365,149	1,775,001	77,226,142	90,440,172	741,435,723
60	Grand totals, 1966	\$	244,020,086	1,062,513	85,416,974	90,207,633	771,179,636

¹ Includes butane, propane and pentane plus.

TABLE 2B. Mineral Production of Canada, by Province, 1967—Concluded

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Northwest Territories	Canada	No.	
536,375	133,897	—	—	219,986	—	—	5,175,384	1	
1,268,365	414,491	—	—	615,961	—	—	11,348,351	2	
—	—	..	—	—	—	—	..	3	
—	—	..	—	—	—	—	..	4	
—	—	—	—	—	—	—	664	5	
—	—	—	—	—	—	—	37,023	6	
—	—	—	—	—	—	—	436,894	7	
—	—	—	—	—	—	—	266,226	8	
—	—	—	—	—	—	—	..	9	
—	—	—	—	—	—	—	3,515,917	10	
..	—	—	—	—	—	—	..	11	
..	—	—	—	—	—	—	..	12	
401,601	—	—	—	—	—	—	401,601	13	
4,752,875	—	—	—	—	—	—	4,752,875	14	
—	—	..	—	—	—	—	..	15	
—	—	..	—	—	—	—	..	16	
3,746	19,516	397	7,275	52,805	—	—	280,731	17	
55,160	518,080	19,698	116,813	2,277,342	—	—	8,006,091	18	
—	—	—	—	—	—	—	—	19	
—	—	2,383,253	—	—	—	—	2,383,253	21	
—	—	67,395,461	—	—	—	—	67,395,461	22	
—	—	—	—	..	—	—	377,941	23	
—	—	—	—	122,640	—	—	1,702,516	24	
1,193,122	474,660	172,913	2,534	68,579	—	—	2,610,740	25	
463,050	1,120,355	178,446	51,685	408,952	—	—	5,530,044	26	
4,307,443	25,453	89,732	126,135	—	—	—	4,995,628	27	
10,116,598	567,931	1,452,131	1,827,422	—	—	—	27,808,129	28	
..	—	—	—	—	—	—	60,665	29	
226,650	—	—	—	—	—	—	900,985	30	
—	—	428,316	—	—	—	—	428,316	31	
—	—	6,359,039	—	—	—	—	6,359,039	32	
334,001	—	—	—	252,359	—	—	592,035	33	
2,340,010	—	—	—	3,785,379	—	—	7,182,139	34	
447	4,811	43,588	2,391,199	59,160	—	—	2,499,205	35	
14,000	79,000	1,459,449	64,950,842	2,110,575	—	—	68,613,866	36	
—	—	—	—	—	—	—	..	37	
—	—	—	—	—	—	—	23,737,330	38	
28,351,141	2,699,857	76,864,224	66,946,762	27,194,644	406,371	—	406,269,252	39	
—	—	2,008,147	3,601,559	1,207,686	1,912	—	11,395,754	40	
—	—	3,620,962	12,418,414	7,534,128	15,791	—	82,759,916	41	
14,228,759	—	49,975,781	1,181,927,668	225,399,348	—	40,589	1,471,735,152	42	
5,431,117	—	6,638,205	161,897,336	23,992,783	—	17,137	197,983,450	43	
—	—	1,575,182	49,763,149	2,017,221	—	—	53,355,552	44	
—	—	2,528,529	106,981,782	3,902,671	—	—	113,412,982	45	
1,240,159	5,585,142	92,534,900	231,543,449	19,697,369	—	677,937	351,287,792	46	
3,523,664	13,998,039	211,721,868	591,023,631	44,841,061	—	870,810	865,991,445	47	
8,954,781	13,998,039	224,509,564	872,231,163	80,270,643	15,791	887,947	1,260,147,793	48	
—	—	—	—	—	—	—	—	—	49
27,450,940	526,405	1,158,495	4,117,469	3,336,145	—	—	44,356,825	49	
2,894,483	415,059	280,435	885,463	709,977	—	—	7,994,954	50	
47,597,495	9,033,093	7,790,020	17,362,618	16,950,591	—	—	143,150,284	51	
974,458	45,364	—	62,821	—	—	—	1,422,899	52	
11,101,674	753,263	—	1,142,619	—	—	—	16,567,197	53	
94,751,250	10,289,157	9,671,401	14,187,340	23,168,141	—	—	215,212,700	54	
67,664,191	6,381,206	5,526,002	11,928,771	20,906,733	—	—	146,697,783	55	
25,744,989	2,012,973	—	141,509	3,527,809	—	—	84,007,308	56	
32,522,455	3,379,285	—	567,037	6,286,415	—	—	103,888,272	57	
186,336,755	20,073,252	14,474,517	35,118,514	47,479,884	—	—	454,660,361	58	
1,194,548,906	184,678,564	361,824,119	974,301,975	380,487,993	14,990,529	118,282,610	4,406,356,883	59	
957,851,890	179,342,104	348,493,608	848,616,941	330,898,073	11,975,757	111,239,350	3,980,304,565	60	

TABLE 3. Annual Values of the Mineral Production of Canada since 1902

Year	Metallics	Non-metallics	Fuel	Structural materials	Total	Value per capita
	dollars					
1902	35,924,651	2,730,425	16,359,722	7,896,836	63,211,634	11.51
1903	33,210,147	2,589,302	17,197,317	8,443,747	61,740,513	10.93
1904	30,924,897	2,807,995	17,858,902	8,182,103	60,073,897	10.31
1905	36,946,212	3,468,408	18,756,112	9,608,267	69,078,999	11.51
1906	41,949,563	4,424,882	21,081,724	11,530,528	79,286,697	12.79
1907	42,426,607	5,021,384	26,254,162	12,863,049	86,865,202	13.55
1908	41,774,362	5,188,269	26,954,515	11,339,955	85,557,101	12.91
1909	44,156,841	4,593,142	26,548,109	16,533,349	91,831,441	13.50
1910	49,438,873	5,109,754	32,647,404	19,627,592	106,823,623	15.29
1911	46,105,423	5,659,746	28,746,214	22,709,611	103,220,994	14.32
1912	61,172,753	6,570,980	38,729,694	28,794,869	135,048,296	18.28
1913	66,361,351	7,402,849	41,060,860	30,809,752	145,634,812	19.08
1914	59,386,619	6,165,107	37,302,122	26,009,227	128,863,075	16.36
1915	75,814,841	7,254,732	36,118,839	17,920,759	137,109,171	17.18
1916	106,319,365	10,245,689	43,169,294	17,467,185	177,201,534	22.15
1917	106,455,147	14,566,995	48,787,368	19,837,311	189,646,821	23.53
1918	114,549,152	17,192,967	60,428,979	19,130,799	211,301,897	25.93
1919	73,262,793	16,676,377	59,325,710	27,421,510	176,686,390	21.26
1920	77,939,630	22,260,697	85,767,250	41,892,088	227,859,665	26.63
1921	49,343,232	10,148,665	77,694,017	34,737,428	171,923,342	19.56
1922	61,785,707	10,986,120	71,990,674	39,534,741	184,297,242	20.66
1923	83,764,403	14,097,925	78,465,622	37,751,381	214,079,331	23.76
1924	102,058,235	12,374,278	59,770,024	35,380,869	209,583,406	22.92
1925	116,951,996	14,628,048	57,354,055	37,649,234	226,583,333	24.38
1926	115,090,770	16,643,022	68,743,933	39,959,398	240,437,123	25.44
1927	113,349,051	17,771,709	71,426,516	44,809,419	247,356,695	25.67
1928	131,819,402	19,019,744	74,413,160	49,737,181	274,989,487	27.96
1929	154,282,736	21,245,279	76,787,397	58,534,834	310,850,246	31.00
1930	142,614,237	15,347,391	68,184,485	53,727,465	279,873,578	27.42
1931	120,794,977	11,028,311	54,453,143	44,158,295	230,434,726	22.71
1932	111,943,049	7,839,551	49,047,342	22,398,283	191,228,225	18.50
1933	147,206,959	10,061,071	47,778,436	16,696,687	221,743,153	20.55
1934	194,213,956	10,558,174	54,262,099	19,286,761	278,320,990	25.91
1935	222,139,223	12,579,334	54,824,200	23,215,400	312,758,157	28.84
1936	259,988,203	16,782,608	59,983,320	25,770,741	362,524,872	33.11
1937	335,000,751	22,536,303	65,828,879	34,869,699	458,235,632	41.48
1938	324,064,074	20,122,661	64,803,294	33,878,666	442,868,695	39.71
1939	343,453,866	25,114,106	70,671,328	35,362,759	474,602,059	42.12
1940	382,440,214	26,074,296	78,837,874	42,472,651	529,825,035	46.55
1941	395,193,386	34,532,635	85,141,997	45,373,272	560,241,290	48.69
1942	391,540,411	37,329,163	92,169,291	45,729,807	566,768,672	48.63
1943	356,558,751	38,970,577	92,514,384	42,010,254	530,053,966	44.94
1944	308,111,295	37,431,875	97,291,007	42,984,937	485,819,114	40.67
1945	316,962,810	39,841,422	93,531,276	48,419,673	498,755,181	41.31
1946	290,386,425	43,792,717	102,516,888	66,120,221	502,816,251	40.91
1947	395,140,994	54,670,989	110,481,207	84,576,785	644,869,975	51.38
1948	488,287,835	67,097,524	159,736,260	105,127,246	820,248,865	63.97
1949	538,967,258	64,585,216	183,654,473	113,903,079	901,110,026	67.01
1950	617,238,340	94,721,564	201,193,957	132,296,212	1,045,450,073	76.24
1951	745,877,561	115,418,150	232,854,093	151,333,791	1,245,483,595	88.90
1952	728,458,160	124,493,256	263,582,319	168,808,618	1,285,342,353	88.90
1953	709,920,510	124,999,607	314,181,168	187,202,218	1,336,303,503	90.02
1954	802,401,423	128,038,507	352,959,465	204,982,696	1,488,382,091	97.36
1955	1,007,839,501	144,920,841	414,318,015	228,232,439	1,795,310,796	114.37
1956	1,146,349,595	160,341,599	518,761,191	259,453,169	2,084,905,554	129.65
1957	1,159,579,226	169,061,110	564,776,791	296,905,265	2,190,322,392	131.87
1958	1,130,160,395	150,354,802	510,768,681	309,455,160	2,100,739,038	122.99
1959	1,370,648,535	178,216,641	535,577,823	324,577,512	2,409,020,511	137.79
1960	1,406,558,061	197,505,783	565,851,829	322,594,308	2,492,509,981	139.48
1961	1,387,159,036	210,467,786	673,794,894	331,345,763	2,602,767,479	142.71
1962	1,496,433,950	217,453,009	770,245,508	356,166,833	2,840,299,300	152.84
1963	1,509,536,931	253,452,413	884,879,854	379,011,116	3,026,880,314	159.89
1964	1,701,648,538	287,497,000	972,725,417	403,058,324	3,364,929,279	174.44
1965	1,907,575,899	327,238,901	1,045,490,868	434,161,904	3,714,467,572	189.09
1966	1,984,672,572	363,387,717	1,151,594,654	480,649,622	3,980,304,565	198.9
1967	2,285,279,477	406,269,252	1,260,147,793	454,660,361	4,406,356,883	215.9

Notes: In representing a total valuation of the mineral production as is here given, it should be explained that the production of the metals, copper, gold, lead, nickel, silver, zinc, etc., is given as far as possible on the basis of the quantities of metals recovered in smelters, and the total quantities in each case are valued chiefly at the average market price of the refined metal in a recognized market. There are thus included in some cases the values that have accrued in the smelting or refining of metals outside of Canada.

1902-08 total includes \$300,000 estimated value of unreported products, mostly structural materials.

TABLE 4. Quantity Index of Real Domestic Product of the Mineral Industry since 1948
(1961 = 100)

Year	Index	Year	Index	Year	Index
1948	31.8	1955	66.4	1962	104.8
1949	35.3	1956	77.1	1963	110.6
1950	38.7	1957	84.6	1964	124.9
1951	43.6	1958	86.0	1965	131.6
1952	46.5	1959	97.3	1966	136.5
1953	50.6	1960	97.4	1967	145.2
1954	56.1	1961	100.0		

Source: D.B.S. Catalogue No. 61-506.

TABLE 5. Value of Mineral Production, by Provinces, since 1948

Year	Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
dollars						
1948	..	..	56,400,245	7,003,285	152,038,867	294,239,673
1949	27,583,615	..	56,092,830	7,134,009	165,021,513	323,368,644
1950	25,824,047	..	59,482,173	12,756,975	220,176,517	366,801,525
1951	32,410,443	..	59,727,256	9,564,617	255,530,071	444,667,203
1952	32,512,313	..	64,552,383	11,298,960	270,483,962	444,669,412
1953	33,780,622	..	67,364,408	11,663,618	251,881,781	465,877,093
1954	42,898,033	..	73,450,898	12,468,322	278,818,070	496,747,571
1955	68,462,956	..	67,133,539	15,759,744	357,010,045	583,954,682
1956	84,349,006	..	66,092,274	18,258,302	422,464,410	650,823,362
1957	82,682,263	..	68,058,743	23,120,689	406,055,757	748,824,322
1958	64,994,754	..	62,706,891	16,275,971	365,706,489	789,601,868
1959	72,156,996	4,559,171	62,879,647	18,133,290	440,897,186	970,762,201
1960	86,637,123	1,172,587	65,453,531	17,072,739	446,202,726	983,104,412
1961	91,618,709	606,644	61,693,156	18,801,981	455,522,933	943,669,488
1962	101,858,960	677,906	61,651,093	21,811,575	519,453,166	913,342,141
1963	137,796,707	798,345	66,317,617	28,343,433	540,615,068	874,208,868
1964	182,152,656	831,283	66,073,596	48,676,712	684,583,430	904,077,030
1965	207,557,627	599,387	70,771,827	82,164,344	715,900,973	993,730,951
1966	244,020,086	1,062,513	85,416,974	90,207,633	771,179,636	957,851,890
1967	266,365,149	1,775,001	77,226,142	90,440,172	741,435,723	1,194,548,906
	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Northwest Territories ¹
dollars						
1948	26,081,349	34,517,208	93,211,299	148,223,614	4,265,910	4,267,485
1949	23,839,638	36,054,536	113,728,425	136,385,911	5,099,176	6,801,729
1950	32,691,173	35,983,923	135,758,940	138,888,205	9,035,696	8,050,899
1951	30,045,992	51,032,953	168,144,211	176,278,932	9,793,170	8,288,747
1952	25,105,045	49,506,094	196,811,654	170,071,244	11,386,451	8,944,835
1953	25,264,112	48,081,970	248,863,295	158,487,812	14,738,562	10,300,230
1954	35,106,922	68,216,009	279,042,735	158,630,867	16,588,664	26,414,000
1955	62,018,231	85,150,128	294,239,673	189,524,574	14,724,750	25,597,821
1956	67,909,407	122,744,698	411,171,898	203,277,828	15,656,434	22,157,935
1957	63,464,286	173,461,037	410,211,763	178,931,120	14,111,798	21,400,615
1958	57,217,569	209,940,966	345,939,248	151,149,136	12,310,756	24,895,390
1959	55,512,410	210,042,051	376,215,593	159,395,092	12,592,378	25,874,496
1960	58,702,697	212,093,225	395,344,010	186,261,646	13,330,198	27,135,087
1961	101,489,840	215,210,169	495,548,443	189,096,258	12,750,304	18,142,076
1962	158,932,169	241,889,176	555,480,985	234,493,431	13,137,730	17,570,968
1963	169,626,688	274,171,427	644,387,580	260,356,616	14,366,936	15,891,029
1964	173,872,576	293,245,302	709,407,373	268,723,823	15,204,103	18,081,395
1965	182,143,774	328,753,797	761,831,887	280,156,052	13,400,535	77,456,418
1966	179,342,104	348,493,608	848,616,941	330,898,073	11,975,757	111,239,350
1967	184,678,564	361,824,119	974,301,975	380,487,993	14,990,529	118,282,610

¹ Values of pitchblend products not included from 1948 to 1953.

TABLE 6. Mineral Production of Newfoundland, 1965-67

Product	1965		1966		1967	
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
Metallics:						
Cadmium	lb.	—	—	—	12,242	34,278
Copper	lb.	29,646,563	11,147,108	38,787,069	17,415,394	43,930,114
Gold	troy oz.	23,657	892,555	25,667	967,903	27,258
Iron ore	short ton	14,500,495	156,888,970	16,546,189	188,603,259	16,981,567
Lead	lb.	43,831,497	6,793,882	43,508,408	6,500,156	39,880,687
Silver	troy oz.	1,086,978	1,521,769	1,097,425	1,535,298	1,073,153
Zinc	lb.	72,374,696	10,928,579	68,320,955	10,316,464	69,702,559
Non-metallics:						
Asbestos	ton	65,626	8,825,182	57,097	9,301,204	63,725
Fluorspar .....	..	..	2,677,443	..	1,890,768	..
Gypsum	ton	442,655	1,088,531	459,685	1,173,401	439,156
Pyrophyllite (talc)	"	30,134	452,010	40,548	608,220	..
Sulphur in smelter gas	"	—	—	11	76	1,377
Structural materials:						
Cement	"	93,777	1,987,220	63,541	1,632,982	82,217
Clay products .....	..	..	72,717	..	172,700	..
Sand and gravel	ton	4,258,678	3,785,071	3,599,421	3,584,261	3,143,938
Stone	"	174,985	496,590	153,000	318,000	240,000
Totals .....	...	207,557,627	...	244,020,086	...	266,365,149

TABLE 7. Mineral Production of Prince Edward Island, 1965-67

Product	1965		1966		1967	
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
Structural materials:						
Sand and gravel	ton	412,064	374,081	660,726	862,513	1,327,600
Stone	"	225,306	225,306	200,000	200,000	725,383
Totals .....	...	399,387	...	1,062,513	...	1,775,001

TABLE 8. Mineral Production of Nova Scotia, 1965-67

Product	1965		1966		1967	
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
Metallics:						
Copper	lb.	373,546	140,453	230,773	103,617	56,570
Gold	troy oz.	—	—	20	754	1
Lead	lb.	3,683,036	570,871	2,976,305	444,660	794,466
Silver	troy oz.	443,630	621,082	540,663	756,388	89,238
Zinc	lb.	598,810	90,420	1,355,574	204,692	46,290
Non-metallics:						
Barite	ton	185,559	1,984,075	199,488	2,022,814	148,804
Gypsum	"	4,862,485	8,619,989	4,502,836	8,140,651	3,757,329
Peat moss	"	2,930	102,906	9,359	196,757	11,681
Quartz	"	—	—	8,638	40,032	9,455
Salt	"	459,114	4,607,548	474,981	4,724,993	446,865
Fuels:						
Coal	"	4,131,161	45,486,833	3,854,534	51,518,674	3,738,487
Structural materials:						
Cement	ton	45,067	764,787	187,225	3,143,670	212,927
Clay products .....	..	..	1,828,385	..	1,525,004	..
Sand and gravel	ton	6,638,138	4,563,277	8,109,366	10,756,417	6,056,265
Stone	"	429,078	1,391,201	605,458	1,837,851	585,015
Totals .....	...	70,771,827	...	85,416,974	...	77,226,142

TABLE 9. Mineral Production of New Brunswick, 1965-67

Product	1965		1966		1967	
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
Metallics:						
Cadmium	lb.	41,658	115,809	37,584	96,967	51,600
Copper .....	..	20,162,987	7,581,283	14,178,625	6,366,203	11,572,389
Gold	troy oz.	1,659	62,592	1,953	73,648	1,421
Lead	lb.	87,307,597	13,532,677	103,728,634	15,497,058	94,032,753
Silver	troy oz.	2,745,274	3,843,384	3,108,669	4,349,028	3,017,416
Zinc	lb.	247,189,484	37,325,612	284,790,664	43,003,390	302,713,881
Non-metallics:						
Grindstone	ton	5	1,000	5	1,500	10
Gypsum	"	101,012	211,108	108,207	413,074	88,641
Peat moss	"	56,525	1,531,554	66,610	1,480,418	78,315
Sulphur in smelter gas	"	—	—	—	—	22,565
Fuels:						
Coal	ton	996,328	8,637,619	898,315	7,892,427	837,963
Natural gas	Mcf.	105,359	105,609	97,403	89,913	103,877
Petroleum, crude	bbl.	4,103	5,744	6,853	9,591	8,837

TABLE 9. Mineral Production of New Brunswick, 1965-67 - Concluded

Product	1965		1966		1967	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
Structural materials:						
Cement	ton 177,254	2,940,644	249,032	4,141,046	230,070	3,904,288
Clay products	"	667,704	"	618,651	"	566,500
Lime	ton 3,554	100,842	3,734	100,089	2,882	77,245
Sand and gravel	" 4,569,025	2,638,728	5,367,393	2,990,458	7,604,962	4,382,988
Stone	" 2,139,517	2,862,435	3,544,301	3,084,172	3,265,148	3,534,911
Totals .....	...	82,164,344	...	90,207,633	...	90,440,172

TABLE 10. Mineral Production of Quebec,¹ 1965-67

Product	1965		1966		1967	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
Metallics:						
Bismuth	lb. 280,246	738,966	471,912	1,757,157	521,697	1,327,661
Cadmium	" 346,649	963,684	286,302	738,659	411,656	1,152,637
Cobalt	" 86,531	186,907	84,022	181,488	34,801	75,170
Columbium (Cb ₂ O ₃)	" 2,333,967	2,528,051	2,637,997	3,182,170	2,159,557	2,404,475
Copper	347,875,256	130,801,096	343,996,943	154,454,627	332,770,373	158,298,866
Gold	troy oz. 905,380	34,159,082	935,459	35,276,158	835,190	31,528,423
Iron ore	ton 14,817,820	140,469,624	13,848,441	130,348,844	14,532,027	141,814,861
Iron (remelt)	" 384,520	18,171,713	"	17,421,215	"	18,584,745
Lead	lb. 8,426,230	1,306,066	7,817,769	1,167,975	5,763,486	806,888
Molybdenum	" 2,268,066	4,325,448	3,501,117	7,064,004	3,551,846	6,531,450
Nickel	" 6,051,078	5,082,906	7,950,645	6,813,703	3,244,162	3,062,499
Selenium	" 314,780	1,526,683	342,151	1,659,432	521,174	2,527,694
Silver	troy oz. 5,154,403	7,216,164	5,214,146	7,294,590	4,659,232	8,069,790
Tellurium	lb. 54,364	353,366	56,421	366,736	56,685	368,453
Titanium ore	"	"	"	"	"	"
Zinc	lb. 545,766,224	82,410,700	586,294,976	88,530,542	491,766,159	71,256,916
Non-metallics:						
Asbestos	ton 1,234,977	122,802,838	1,341,491	138,570,399	1,292,296	136,481,924
Feldspar	" 10,904	252,868	10,924	254,714	10,394	241,715
Graphite	"	"	"	"	"	"
Iron oxides (ochre)	ton 309	13,879	390	10,199	664	37,023
Lithia	lb. 1,013,565	1,141,426	253,566	260,611	436,894	266,226
Magnesian dolomite and brucite	"	4,010,927	"	3,948,599	"	3,515,917
Mica	ton 547,611	25,414	339,800	14,048	"	"
Peat moss	" 107,669	2,306,007	117,231	2,414,762	106,996	2,642,507
Phosphate	" 5	172	"	"	"	"
Pyrite	"	1,175,189	"	1,098,819	"	1,579,876
Quartz	ton 522,474	3,246,032	529,112	3,340,066	689,477	3,255,614
Soapstone and talc	" 14,675	172,834	16,087	208,306	"	228,695
Sulphur in smelter gas	" 64,441	427,311	67,874	471,214	81,733	817,330
Titanium dioxide, etc.	" 410,255	22,425,094	"	20,505,484	"	23,737,330
Fuels:						
Natural gas	Mcf. -	-	-	-	59,130	8,870
Structural materials:						
Cement	" 2,836,645	45,805,893	2,935,987	47,872,474	2,284,323	34,997,061
Clay products	"	6,520,653	"	6,278,308	"	5,611,049
Lime	ton 371,251	4,190,113	344,243	3,750,568	337,374	3,492,396
Sand and gravel	" 45,101,021	21,010,210	50,238,532	23,815,735	45,012,646	21,753,139
Stone	" 44,159,242	50,133,657	59,911,822	62,108,030	47,764,482	54,958,523
Totals .....	...	715,900,973	...	771,179,636	...	741,435,723

¹ There is also in this province an important production of aluminum from imported ores.

TABLE 11. Mineral Production of Ontario, 1965-67

Product	1965		1966		1967	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
Metallics:						
Bismuth	lb. 3,883	9,600	6,312	15,881	4,272	18,412
Cadmium	" 209,724	583,033	217,237	560,471	2,024,006	5,667,217
Calcium	" 159,434	152,848	249,179	245,125	543,692	535,509
Cobalt	" 2,620,810	5,511,436	2,684,235	5,464,495	2,929,470	5,967,044
Copper	432,544,119	161,665,138	405,951,287	181,375,552	552,291,827	261,814,899
Gold	troy oz. 1,946,003	73,420,747	1,660,750	62,626,883	1,495,385	56,450,784
Iron ore	short ton 8,475,218	94,209,236	8,144,289	91,700,740	8,649,763	99,903,925
Lead	lb. 3,887,218	602,518	3,970,467	593,188	11,058,534	1,548,195
Magnesium	" 20,216,369	6,067,057	13,445,701	4,175,743	17,774,684	5,653,243
Molybdenum	"	"	"	"	"	"
Nickel	lb. 382,566,712	316,332,366	320,428,750	269,461,584	380,117,521	352,238,885
Platinum group	troy oz. 463,127	36,109,799	395,952	32,363,556	399,898	34,580,361
Selenium	lb. 123,175	597,399	111,000	538,350	134,800	653,780
Silver	troy oz. 10,822,213	15,151,098	10,900,204	15,249,385	14,309,391	24,783,864
Tellurium	lb. 9,315	60,548	9,000	58,500	6,500	42,250
Thorium	"	"	87,393	210,528	117,383	214,997
Uranium (U ₃ O ₈)	lb. 6,825,046	47,234,892	5,875,698	42,758,135	5,450,639	41,418,268
Yttrium	"	"	20,724	130,223	172,551	1,594,298
Zinc	" 121,349,121	18,323,817	164,789,837	24,883,265	537,064,861	77,820,698

TABLE 11. Mineral Production of Ontario, 1965-67 - Concluded

Product	1965		1966		1967	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
Non-metallics:						
Arsenious oxide	lb. 403,011	13,150	701,537	35,610	755,050	48,193
Asbestos	ton 1,758	69,258	1,696	64,519	1,631	61,240
Fluorspar .....	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Gemstones	lb. 64,000	7,106	.. ..	.. ..	4,000	4,000
Gypsum	ton 531,918	1,444,293	565,185	1,581,010	536,375	1,268,365
Mica .....	.. ..	.. ..	200,920	4,367	.. ..	.. ..
Nepheline syenite	" 339,982	3,415,387	366,696	4,109,744	401,601	4,752,875
Peat moss	" 20,115	389,615	1,700	30,000	3,746	55,160
Quartz ¹	" 1,301,583	790,615	1,161,057	902,089	1,193,122	463,050
Salt	" 3,564,449	15,499,274	3,418,979	15,243,719	4,307,443	19,115,598
Sulphur, in smelter gas	" 138,844	1,296,001	160,613	1,501,860	234,001	2,340,010
Sulphur, elemental	" 1,272	26,610	546	15,949	447	14,000
Talc	" 8,028	137,458	13,509	219,924	.. ..	228,650
Fuels:						
Natural gas	Mcf. 12,699,483	5,798,330	15,537,395	5,939,946	14,228,759	5,431,117
Petroleum, crude	bbl. 1,279,162	4,093,318	1,323,781	4,230,278	1,240,159	3,523,664
Structural materials:						
Cement	ton 3,145,873	50,055,554	3,242,591	52,680,630	2,894,483	47,597,495
Clay products .....	.. ..	25,130,709	.. ..	25,799,667	.. ..	27,450,940
Lime	ton 1,132,193	13,842,169	1,078,350	12,232,867	974,458	11,101,674
Sand and gravel	" 88,564,687	63,405,954	94,123,982	67,245,821	94,751,250	67,664,191
Stone	" 24,659,053	32,284,988	25,702,843	33,602,286	25,744,989	32,522,455
Totals .....	...	993,730,951	...	957,851,890	...	1,194,548,906

¹ Includes low-grade silica sand for fluxing purposes.

TABLE 12. Mineral Production of Manitoba, 1965-67

Product	1965		1966		1967	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
Metallics:						
Cadmium	lb. 213,639	593,916	192,863	497,586	204,766	573,345
Cobalt	" 940,991	1,830,800	742,912	1,461,980	639,502	1,310,219
Copper	" 61,614,710	23,167,131	62,629,571	28,120,677	59,119,602	28,123,194
Gold	troy oz. 67,685	2,553,687	64,565	2,434,746	53,945	2,036,424
Lead	lb. 2,632,192	407,990	1,113,596	166,371	3,569,976	499,797
Nickel	" 126,424,229	106,196,353	115,623,251	98,447,063	109,427,373	103,585,379
Platinum group .....	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Selenium	lb. 38,022	184,406	61,513	298,338	31,274	151,679
Silver	troy oz. 707,024	989,834	547,797	766,368	629,311	1,089,967
Tellurium	lb. 3,137	20,390	3,428	22,282	4,575	29,738
Zinc	" 81,527,058	12,310,585	69,933,212	10,559,915	72,516,726	10,507,674
Non-metallics:						
Gypsum	ton 159,854	521,242	134,225	427,211	133,897	414,491
Peat moss	" 21,764	1,275,439	20,464	518,195	19,516	518,080
Quartz	" 392,320	739,216	393,204	969,742	474,660	1,120,355
Salt	" 29,834	650,193	27,069	660,894	25,453	567,931
Sulphur, elemental	" 3,738	27,473	4,217	60,683	4,811	79,000
Fuels:						
Petroleum, crude	bbl. 4,946,509	11,530,305	5,230,712	13,057,426	5,585,141	13,998,039
Structural materials:						
Cement	ton 421,840	8,884,734	508,152	10,221,927	415,059	9,033,093
Clay products .....	.. ..	482,620	.. ..	487,172	.. ..	526,402
Lime	ton 52,199	846,253	55,835	939,643	45,364	753,263
Sand and gravel	" 10,462,840	7,378,750	9,675,796	5,806,203	10,289,157	6,381,196
Stone	" 970,536	1,552,457	2,022,876	3,417,682	2,012,973	3,379,255
Totals .....	...	182,143,774	...	179,342,104	...	184,678,564

TABLE 13. Mineral Production of Saskatchewan, 1965 - 67

Product	1965		1966		1967		
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$	
Metallics:							
Cadmium	lb.	133,078	369,957	141,171	364,221	134,332	376,129
Copper	"	37,463,556	14,086,297	39,121,774	17,565,676	45,949,225	21,858,046
Gold	troy oz.	46,173	1,742,061	42,678	1,609,387	47,895	1,808,036
Lead	lb.	—	—	—	—	3,119,353	436,709
Nickel	"	—	—	29,465	25,252	324,391	306,225
Platinum group	troy oz.	—	—	107	6,508	1,365	88,554
Selenium	lb.	36,100	175,085	60,818	294,967	37,325	181,026
Silver	troy oz.	640,995	897,393	603,358	844,098	605,215	1,048,252
Tellurium	lb.	2,978	19,357	3,390	22,035	5,459	35,484
Uranium (U ₃ O ₈)	"	2,060,167	15,126,485	1,987,992	11,576,652	2,025,589	11,603,668
Zinc	"	55,965,761	8,450,830	57,818,857	8,730,647	56,823,363	8,233,705
Non-metallics:							
Helium .....	..	..	..	..	..	..	..
Nitrogen .....	..	..	..	..	..	..	..
Peat moss	ton	—	—	800	17,500	397	19,698
Potash (K ₂ O)	"	1,491,301	55,970,527	1,990,053	62,664,666	2,383,253	67,395,461
Quartz ¹	lb.	182,349	177,337	183,750	149,938	172,913	178,446
Salt	"	78,958	1,413,001	84,979	1,443,635	89,732	1,452,131
Sodium sulphate	ton	345,469	5,527,281	405,314	6,471,795	428,316	6,359,039
Sulphur, elemental	"	25,585	494,199	36,384	1,235,792	43,588	1,459,449
Fuels:							
Coal	"	2,063,933	3,715,385	2,078,165	3,717,586	2,008,147	3,620,962
Natural gas	Mcf.	42,734,909	5,030,276	49,867,762	6,122,521	49,975,781	6,638,205
Natural gas by-products ²	bbl.	1,266,822	2,181,922	1,344,189	2,385,483	1,575,182	2,528,529
Petroleum (crude oil and condensate)	"	87,788,935	200,992,767	93,218,119	211,797,159	92,534,900	211,721,868
Structural materials:							
Cement	ton	233,630	5,286,894	214,145	4,963,191	280,435	7,790,020
Clay products .....	..	..	1,380,916	..	1,395,489	..	1,158,495
Sand and gravel	ton	8,808,104	5,715,827	8,314,360	5,089,410	9,671,401	5,526,002
Totals .....	...	...	328,753,797	...	348,493,608	...	361,824,119

¹ Low-grade silica sand for fluxing purposes.² Includes butane, propane and pentane plus.

TABLE 14. Mineral Production of Alberta, 1965 - 67

Product	1965		1966		1967		
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$	
Metallics:							
Gold	troy oz.	200	7,546	182	6,863	146	5,512
Silver	"	19	26	17	23	14	24
Non-metallics:							
Peat moss	ton	4,536	203,900	6,515	121,093	7,275	116,813
Quartz	"	—	—	—	—	2,534	51,685
Salt	"	115,706	1,815,828	122,814	1,772,947	126,135	1,827,422
Sulphur, elemental	"	1,946,435	24,121,809	1,933,920	37,224,660	2,391,199	64,950,842
Fuels:							
Coal	"	3,413,928	12,173,846	3,467,254	11,947,258	3,601,559	12,418,414
Natural gas	Mcf.	1,023,294,574	132,055,946	1,090,691,124	146,609,428	1,181,927,668	161,807,336
Natural gas by-products ¹	bbl.	41,331,087	86,052,679	46,082,546	96,677,184	49,763,149	106,981,782
Petroleum (crude oil and condensate)	"	184,155,669	473,132,745	203,339,433	522,989,385	231,543,449	591,023,631
Structural materials:							
Cement	ton	871,738	15,597,836	822,360	15,685,259	885,463	17,362,618
Clay products .....	..	..	3,555,006	..	3,422,614	..	4,117,469
Lime	ton	61,207	1,154,931	72,875	1,316,557	62,821	1,142,619
Sand and gravel	"	14,377,337	11,437,693	12,886,213	10,298,933	14,187,340	11,928,771
Stone	"	167,782	522,096	144,433	544,737	141,509	561,037
Totals .....	...	...	761,831,887	...	848,616,941	...	974,301,975

¹ Includes butane, propane and pentane plus.

TABLE 15. Mineral Production of British Columbia,¹ 1965-67

	1965		1966		1967		
	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$	
Metallics:							
Antimony	lb.	1,301,787	689,947	1,405,681	745,011	1,267,686	671,874
Bismuth	"	144,630	446,906	47,435	198,848	142,507	572,878
Cadmium	"	486,419	1,352,245	1,169,570	3,017,491	991,316	2,775,685
Copper	"	85,130,142	32,008,933	105,759,611	47,450,169	172,638,580	82,112,961
Gold	troy oz.	117,764	4,443,118	120,705	4,551,786	126,823	4,787,568
Indium	ton	..	..	..	..	..	..
Iron ore	ton	2,165,403	21,497,031	2,151,804	21,006,240	2,154,443	20,994,056
Lead	lb.	250,333,363	38,801,671	211,494,096	31,598,418	207,653,727	29,071,522
Mercury	"	1,520	12,301	-	-	-	-
Molybdenum	"	7,289,125	12,405,344	17,094,927	27,606,589	17,824,920	31,368,589
Nickel	"	3,322,000	2,790,480	3,187,712	2,731,869	4,180,842	3,946,715
Platinum group		-	-	-	-	-	-
Silver	troy oz.	4,991,109	6,987,553	5,548,823	7,762,803	6,082,617	10,535,093
Tin	lb.	377,207	725,554	710,752	916,870	437,804	621,682
Zinc	"	316,671,224	47,817,355	305,124,440	46,073,790	262,830,908	38,084,199
Non-metallics:							
Asbestos	ton	85,851	14,491,195	88,771	15,718,741	92,192	17,670,100
Barite	"	17,466	182,931	21,888	176,240	23,466	176,811
Diatomite	"	82	4,420	70	3,755	..	..
Fluorspar .....		..	2,419	..	4,986	..	2,404
Gemstones	lb.	7,129	9,249	11,633	13,225	20,160	24,341
Gypsum	ton	207,705	646,221	206,026	576,873	219,986	615,961
Mica (schist)		-	-	-	-	-	-
Peat moss	ton	74,306	3,173,558	61,893	2,408,529	52,805	2,277,342
Pozzolan		-	-	-	-	-	-
Pyrite .....		..	110,063	..	40,322	..	122,640
Quartz	ton	34,959	171,112	23,899	112,174	68,579	408,952
Sulphur, in smelter gas	"	241,473	2,594,050	271,840	4,077,600	252,359	3,785,379
Sulphur, elemental	"	91,364	1,724,504	66,461	1,716,601	59,160	2,110,575
Fuels:							
Coal	ton	971,465	5,801,817	1,087,631	6,437,459	1,207,686	7,534,128
Natural gas	Mcf.	157,920,967	15,930,215	185,591,319	19,402,660	225,399,348	23,992,783
Natural gas by-products ²	bbl.	1,784,195	3,453,880	1,815,071	3,481,814	2,017,221	3,902,671
Petroleum (crude oil and condensate)	"	13,502,539	28,592,977	16,680,707	36,360,605	19,697,369	44,841,061
Structural materials:							
Cement	ton	601,878	11,199,607	707,519	15,959,443	709,977	16,950,591
Clay products .....		...	3,198,872	...	3,256,480	...	3,336,145
Line		-	-	-	-	-	-
Sand and gravel	ton	22,068,370	13,510,233	24,295,400	21,634,731	23,168,141	20,906,733
Stone	"	3,832,606	5,378,291	3,537,321	5,855,951	3,527,809	6,286,415
Totals .....		...	280,156,052	...	330,898,073	...	380,487,993

¹ There is also in this province an important production of aluminum from imported ores.² Includes butane, propane and pentane plus.

TABLE 16. Mineral Production of Yukon, 1965 - 67

Product	1965		1966		1967		
	Quantity	Value	Quantity	Value	Quantity	Value	
		\$		\$		\$	
Metallics:							
Cadmium	lb.	138,918	386,192	118,735	306,336	94,999	265,997
Copper	"	—	—	—	—	7,167,919	3,409,779
Gold	troy oz.	45,031	1,698,975	43,466	1,639,103	17,900	675,725
Lead	lb.	17,851,309	2,766,953	15,975,125	2,386,684	15,299,709	2,141,959
Platinum group		—	—	—	—	—	—
Silver	troy oz.	4,615,995	6,462,393	4,194,580	5,868,217	3,869,374	6,701,756
Tungsten (WO ₃) .....		—	—	—	—	..	..
Zinc	lb.	13,247,653	2,000,396	11,450,510	1,729,027	9,476,545	1,373,151
Non-metallics:							
Asbestos	ton	—	—	—	—	2,260	406,371
Fuels:							
Coal	"	8,801	85,628	5,670	46,390	1,912	15,791
Totals .....		...	13,400,535	...	11,975,757	...	14,990,529

TABLE 17. Mineral Production of the Northwest Territories, 1965 - 67

Product	1965		1966		1967		
	Quantity	Value	Quantity	Value	Quantity	Value	
		\$		\$		\$	
Metallics:							
Cadmium	lb.	185,840	516,635	1,073,400	2,769,372	911,400	2,551,920
Copper	"	942,400	354,342	1,496,805	672,065	1,131,126	538,077
Gold	troy oz.	452,479	17,071,580	424,029	15,990,133	380,304	14,356,476
Lead	lb.	165,662,547	25,677,695	210,659,720	31,472,562	254,753,820	35,665,535
Silver	troy oz.	1,064,824	1,490,754	1,662,192	2,325,407	1,980,228	3,429,755
Tungsten (WO ₃)	lb.	3,736,324	3,115,909	..	..	..	..
Zinc	"	189,380,626	28,596,474	378,333,400	57,128,344	419,964,800	60,852,900
Fuels:							
Natural gas	Mcf.	43,068	18,088	46,238	19,522	40,589	17,137
Petroleum cruse	bbt.	644,998	614,941	749,654	861,945	677,937	870,810
Totals .....		...	77,456,418	...	111,239,350	...	118,282,610

TABLE 18. Tonnage of Ore Mined and Rock Quarried in the Canadian Mining Industry, 1926-67

	1926	1927	1928	1929	1930
Gold-quartz ores	4,031,035	4,605,190	4,601,628	4,354,744	4,472,803
Copper-gold-silver ores	3,210,321	3,636,759	4,262,822	5,134,824	5,768,664
Silver-cobalt ores	336,066	303,134	260,644	242,591	223,432
Silver-lead-zinc ores	1,565,158	1,763,660	2,097,179	2,208,270	2,224,970
Nickel-copper ores	1,322,050	1,305,917	1,457,910	1,991,910	2,127,043
Miscellaneous metals	—	—	—	—	—
Asbestos	4,483,261	4,834,761	5,171,060	6,208,970	4,901,206
Feldspar and nepheline syenite	35,951	31,484	31,897	37,527	26,796
Quartz	238,343	245,318	290,721	265,949	226,200
Gypsum	931,193	1,105,704	1,311,642	1,211,689	1,070,968
Talc and soapstone	16,650	16,521	17,076	—	11,841
Iron oxides	6,626	7,767	10,841	—	6,596
Other non-metals	—	—	—	—	—
Stone, all kinds, quarried ¹	6,397,590	7,306,436	8,253,804	9,622,424	9,994,656
Stone used for the manufacture of cement	2,200,000	2,400,000	2,800,000	3,000,000	2,925,399
Estimated rock for the manufacture of lime	715,700	790,000	905,000	1,203,000	874,000
Totals (other than coal)	25,490,044	28,352,651	31,472,224	35,481,898	34,874,574
	1931	1932	1933	1934	1935
Gold-quartz ores	5,565,426	6,072,665	6,528,854	7,846,854	8,832,901
Copper-gold-silver ores	6,002,865	5,453,173	5,448,690	6,065,692	5,650,665
Silver-cobalt ores	200,729	70,442	60,317	54,498	57,287
Silver-lead-zinc ores	1,710,732	1,532,628	1,457,452	1,856,256	2,134,749
Nickel-copper ores	1,714,075	826,041	1,553,887	2,989,988	3,699,845
Miscellaneous metals	1,608	77	3,000	3,618	4,970
Asbestos	2,274,048	1,145,340	1,566,919	2,320,750	2,852,118
Feldspar and nepheline syenite	13,897	4,903	10,658	18,302	15,706
Quartz	180,110	207,031	185,783	272,563	226,857
Gypsum	882,880	437,153	370,591	488,066	562,471
Talc and soapstone	21,916	13,275	16,626	15,050	13,909
Iron oxides	12,465	14,262	4,379	6,182	6,152
Other non-metals	120,205	52,154	129,514	173,669	128,415
Stone, all kinds, quarried ¹	8,398,110	4,691,172	2,939,824	4,077,754	4,317,947
Stone used for the manufacture of cement	2,489,147	1,141,376	616,364	806,546	818,443
Estimated rock for the manufacture of lime	610,000	569,500	573,726	600,000	700,000
Totals (other than coal)	30,198,213	22,231,192	21,446,584	27,595,788	30,022,435
	1936	1937	1938	1939	1940
Gold-quartz ores	10,694,208	12,388,489	14,749,649	17,105,744	18,986,306
Copper-gold-silver ores	5,052,222	6,749,809	7,929,434	8,474,855	8,931,291
Silver-cobalt ores	59,592	56,878	59,408	60,431	43,245
Silver-lead-zinc ores	2,196,482	2,524,548	2,387,167	2,195,138	2,640,973
Nickel-copper ores	4,666,554	6,322,062	6,282,799	7,859,496	8,361,532
Iron ores	—	—	—	186,705	659,581
Miscellaneous metals	9,440	17,509	1,307	4,949	23,735
Asbestos	4,692,004	6,477,805	5,816,368	6,650,416	7,612,150
Feldspar and nepheline syenite	29,189	53,901	50,768	79,346	101,645
Quartz	249,960	450,740	450,246	231,843	228,065
Gypsum	841,116	1,151,064	1,084,057	1,532,423	1,494,576
Talc and soapstone	25,052	7,271	10,366	14,111	20,514
Iron oxides	7,223	7,665	8,919	10,049	15,623
Other non-metals	233,894	243,670	179,932	216,253	306,765
Stone, all kinds, quarried ¹	4,982,912	6,935,612	5,116,022	5,443,522	7,447,665
Stone used for the manufacture of cement	1,180,358	1,465,168	1,344,868	1,379,858	1,765,944
Estimated rock for the manufacture of lime	800,000	976,900	867,583	900,000	1,280,949
Totals (other than coal)	35,720,206	45,829,091	46,338,893	52,345,139	59,920,559

See footnote(s) at end of table.

TABLE 18. Tonnage of Ore Mined and Rock Quarried in the Canadian Mining Industry, 1926-67 - Continued

	1941	1942	1943	1944	1945
Gold-quartz ores	20,031,736	17,722,866	12,853,610	10,790,495	9,780,555
Copper-gold-silver ores	9,263,071	8,575,626	8,251,579	7,395,608	5,914,580
Silver-cobalt ores	11,507	25,550	39,184	27,184	30,519
Silver-lead-zinc ores	2,816,974	2,951,480	3,252,657	2,911,824	3,086,683
Nickel-copper ores	9,974,272	12,081,545	12,925,590	12,954,201	10,854,735
Iron ores	758,416	804,476	694,319	788,728	1,494,625
Miscellaneous metals	125,435	316,002	664,689	462,072	110,889
Asbestos	7,707,367	8,233,516	7,929,471	7,778,805	8,765,370
Feldspar and nepheline syenite	57,861	77,049	90,416	84,089	91,535
Quartz	335,085	487,664	947,195	988,755	807,002
Gypsum	1,532,228	794,886	430,822	536,356	830,723
Talc and soapstone	38,067	30,376	22,128	30,553	26,599
Iron oxides	15,917	15,629	12,648	15,519	8,189
Other non-metals	412,159	457,251	529,326	497,560	614,286
Stone, all kinds, quarried ¹	7,940,801	7,978,066	7,222,950	5,994,992	6,205,555
Stone used for the manufacture of cement	2,086,781	2,155,750	1,918,742	1,865,597	1,849,258
Estimated rock for the manufacture of lime	1,530,200	1,518,435	1,568,730	1,511,803	1,426,753
Totals (other than coal)	64,637,877	64,226,167	59,354,056	54,634,144	51,897,856
	1946	1947	1948	1949	1950
Gold-quartz ores	10,712,615	11,632,841	13,630,705	15,999,866	16,984,524
Copper-gold-silver ores	5,009,490	5,462,233	6,496,499	8,245,402	8,758,607
Silver-cobalt ores	32,841	10,572	8,905	38,798	69,437
Silver-lead-zinc ores	2,805,658	2,857,461	3,147,849	3,915,405	4,826,992
Nickel-copper ores	8,224,751	11,137,609	11,688,146	10,923,823	10,777,859
Iron ores	2,035,955	2,109,724	1,812,820	4,207,327	4,345,278
Miscellaneous metals	95,736	133,019	91,863	1,083	153,181
Asbestos	9,127,859	9,837,045	10,759,016	8,218,045	12,210,780
Feldspar and nepheline syenite	81,214	142,296	139,680	123,785	133,845
Quartz, exclusive of sand (shipments)	879,310	1,315,427	1,341,914	1,212,562	952,093
Gypsum and anhydrite	2,027,045	2,604,075	3,487,964	3,157,114	3,780,211
Talc and soapstone	28,624	25,834	30,319	28,935	33,685
Iron oxides	8,823	20,664	22,935	22,443	20,622
Other non-metals	589,036	685,704	754,668	488,549	522,135
Stone, all kinds, quarried ¹	8,050,260	10,889,388	11,696,643	13,928,039	18,087,064
Stone used for the manufacture of cement	2,525,653	3,057,675	3,449,947	3,985,407	4,119,216
Estimated rock for the manufacture of lime	1,445,891	1,730,819	1,792,700	1,737,508	1,928,127
Totals (other than coal)	53,686,761	63,652,386	70,352,573	76,224,091	87,703,656
	1951	1952	1953	1954	1955
Gold-quartz ores	16,548,264	16,496,218	15,247,337	16,178,273	16,404,660
Copper-gold-silver ores	7,380,966	7,773,341	7,438,500	8,501,569	9,911,751
Silver-cobalt ores	129,077	180,534	268,837	289,101	302,821
Silver-lead-zinc ores	6,317,545	6,759,454	7,539,882	7,272,011	7,526,352
Nickel-copper ores	12,885,445	14,380,684	15,004,102	16,748,709	17,022,067
Iron ores	5,093,326	6,239,265	8,475,237	9,400,517	17,220,376
Miscellaneous metals	439,117	514,188	459,312	624,176	800,764
Asbestos	12,623,529	12,989,320	13,912,839	14,793,760	17,696,357
Feldspar and nepheline syenite	232,092	100,663	173,934	175,856	215,660
Quartz, exclusive of sand (shipments)	1,259,791	1,274,196	1,107,999	933,588	945,398
Gypsum and anhydrite	3,928,377	3,553,917	3,839,040	4,184,178	4,539,660
Talc and soapstone	27,047	25,728	28,638	28,120	29,273
Iron oxides	20,505	20,048	24,388	13,985	11,789
Rock salt	-	85,520	71,034	80,652	275,104
Other non-metals	671,974	736,550	665,473	748,839	1,032,913
Stone, all kinds, quarried ¹	18,676,706	18,726,196	19,849,017	32,767,925	30,512,920
Stone used for the manufacture of cement	4,246,501	4,513,625	5,330,778	5,566,198	5,964,433
Estimated rock for the manufacture of lime	2,164,298	2,131,563	2,163,427	2,154,987	2,274,211
Totals (other than coal)	92,644,560	96,501,810	101,599,774	120,462,449	132,686,509

See footnote(s) at end of table.

TABLE 18. Tonnage of Ore Mined and Rock Quarried in the Canadian Mining Industry, 1926-67 - Concluded

	1956	1957	1958	1959
Gold-quartz ores	14,589,230	14,472,724	14,766,582	14,246,800
Copper-gold-silver ores	10,422,648	10,570,801	11,484,960	12,436,105
Silver-cobalt ores	205,013	186,294	223,609	197,449
Silver-lead-zinc ores	7,651,006	6,714,538	5,889,872	5,708,625
Nickel-copper ores	18,453,360	19,289,516	12,861,918	18,964,386
Iron ores	23,950,943	26,417,572	20,357,239	32,398,057
Miscellaneous metals ²	2,119,476	6,689,383	13,171,208	15,129,295
Asbestos	21,922,874	22,610,743	22,443,060	23,105,241
Feldspar and nepheline syenite	286,022	306,337	332,265	413,808
Quartz, exclusive of sand (shipments)	1,296,431	1,313,490	737,088	1,039,021
Gypsum and anhydrite	4,900,265	4,706,524	3,976,714	5,983,345
Talc and soapstone	28,500	40,083	37,314	43,762
Iron oxides	11,152	12,560	2,822	2,633
Rock salt	638,651	790,986	780,094	1,244,906
Other non-metals	1,235,686	746,925	803,635	1,418,454
Stone, all kinds, quarried ¹	33,257,318	40,282,081	38,156,647	46,439,535
Stone used for the manufacture of cement	7,152,693	8,741,863	8,473,596	7,963,129
Estimated rock for the manufacture of lime	2,276,836	2,562,740	2,831,886	3,062,152
Totals (other than coal)	150,398,104	166,455,160	157,069,182	189,796,763
	1960	1961	1962	1963
Gold-quartz ores	14,725,586	14,353,022	13,659,916	12,618,059
Copper-gold-silver ores	13,973,786	15,008,993	17,744,713	19,764,023
Silver-cobalt ores	220,753	233,781	234,621	307,095
Silver-lead-zinc ores	5,831,613	5,872,303	6,234,523	6,385,357
Nickel-copper ores	20,835,188	21,639,948	17,970,652	17,624,435
Iron ores	32,957,009	32,712,955	49,876,311	60,071,102
Miscellaneous metals ²	13,036,867	9,602,346	8,542,671	7,693,024
Asbestos	33,228,170	38,444,213	42,212,705	45,738,904
Feldspar and nepheline syenite	331,136	337,641	343,905	367,694
Quartz, exclusive of sand (shipments)	1,279,762	946,430	1,112,129	743,000
Gypsum and anhydrite	5,093,162	5,059,758	5,398,527	6,082,297
Talc and soapstone	51,487	68,229	67,069	64,712
Iron oxides	"	"	"	"
Rock salt	1,320,718	1,348,728	1,867,584	1,751,436
Other non-metals	695,367	843,449	1,218,142	3,376,053
Stone, all kinds, quarried ¹	45,359,449	48,938,804	50,553,485	62,655,329
Stone used for the manufacture of cement	7,768,119	8,145,376	9,023,162	9,384,412
Estimated rock for the manufacture of lime	2,669,574	2,592,831	2,668,480	2,703,709
Totals (other than coal)	199,377,746	206,148,807	228,728,595	257,330,706
	1964	1965	1966	1967
Gold-quartz ores	12,757,577	12,042,354	11,187,827	10,289,826
Copper-gold-silver ores	20,201,393	20,016,849	23,085,616	31,279,288
Silver-cobalt ores	253,170	279,091	270,492	225,898
Silver-lead-zinc ores	8,923,216	10,139,481	11,255,330	11,662,803
Nickel-copper ores	20,419,111	24,249,575	21,792,636	24,795,565
Iron ores	72,795,146	89,154,543	79,818,862	90,165,071
Miscellaneous metals ²	5,901,375	10,654,616	14,883,076	18,118,195
Asbestos	50,032,255	53,399,988	60,239,777	77,502,293
Feldspar and nepheline syenite	390,336	448,777	557,003	588,330
Quartz, exclusive of sand (shipments)	1,506,574	1,471,830	1,509,603	1,264,397
Gypsum and anhydrite	6,420,038	6,112,078	5,857,796	5,302,119
Talc and soapstone	68,247	57,169	69,817	62,949
Iron oxides	"	"	"	"
Rock salt	1,876,176	3,363,611	3,077,027	3,625,115
Other non-metals	4,693,733	5,732,636	7,223,902	9,221,764
Stone, all kinds, quarried ¹	69,794,358	76,758,105	93,686,518	80,636,402
Stone used for the manufacture of cement	9,995,059	11,236,634	12,104,057	11,058,443
Estimated rock for the manufacture of lime	2,710,253	2,927,691	2,927,618	3,269,660
Totals (other than coal)	288,738,017	328,045,028	349,791,957	379,067,056

¹ Excludes stone used to manufacture cement and lime.² Uranium ore is not included prior to 1956.³ Included in "Other non-metals".

TABLE 19. Tonnage of Ore Mined and Rock Quarried,¹ by Provinces, 1926-67

Province	1926	1927	1928	1929	1930	1931	1932
Nova Scotia	856,749	992,734	1,250,741	1,306,997	1,059,530	824,319	379,473
New Brunswick	99,764	127,842	147,633	125,528	216,286	150,313	76,637
Quebec	8,156,859	8,837,325	10,170,889	11,811,455	11,487,408	9,324,252	5,589,625
Ontario	10,673,134	11,955,635	12,525,513	13,445,831	13,596,023	11,531,228	9,184,305
Manitoba	324,950	477,311	549,472	885,780	811,560	1,757,496	1,968,665
Saskatchewan	—	—	—	—	—	90,874	46,861
Alberta	131,561	161,367	217,010	318,891	135,329	154,762	47,863
British Columbia	5,200,329	5,734,859	6,563,900	7,542,291	7,519,822	6,317,150	4,897,588
Yukon	46,698	65,578	47,066	45,125	48,616	47,819	40,119
Northwest Territories	—	—	—	—	—	—	56
Canada (excluding coal)	25,490,044	28,352,651	31,472,224	35,481,898	34,874,574	30,198,213	22,231,192
	1933	1934	1935	1936	1937	1938	1939
Nova Scotia	347,532	561,718	755,176	1,171,572	1,464,900	1,221,602	1,657,002
New Brunswick	75,605	100,812	147,203	132,308	138,503	90,900	143,370
Quebec	5,550,147	6,751,835	7,897,900	10,804,762	14,021,992	14,513,479	16,579,849
Ontario	9,050,716	12,702,505	13,575,752	16,211,145	20,674,550	20,047,916	22,781,330
Manitoba	1,640,141	1,431,826	1,738,880	1,534,972	1,758,094	1,714,752	2,343,130
Saskatchewan	316,105	528,729	488,015	798,149	840,429	836,807	925,652
Alberta	21,854	53,998	66,443	90,110	106,305	82,793	137,411
British Columbia	4,438,110	5,461,377	5,338,342	4,925,225	6,741,193	7,724,157	7,625,970
Yukon	6,374	2,988	14,702	51,963	83,125	89,131	55,614
Northwest Territories	—	—	22	—	—	17,356	95,811
Canada (excluding coal)	21,446,584	27,595,788	30,022,435	35,720,206	45,829,091	46,338,893	52,345,139
	1940	1941	1942	1943	1944	1945	1946
Newfoundland ² .....	..	..	..	..	..	..	..
Nova Scotia	1,673,093	1,536,178	902,522	494,707	550,356	838,593	2,007,040
New Brunswick	262,124	238,675	193,932	129,845	154,385	190,348	210,151
Quebec	18,880,089	21,184,690	22,432,566	20,886,724	18,751,555	18,776,018	19,644,962
Ontario	26,606,352	28,796,910	28,988,558	27,358,636	26,108,154	23,749,464	23,983,245
Manitoba	2,377,074	2,429,929	1,712,432	1,571,200	1,576,141	1,495,262	1,472,911
Saskatchewan	1,272,634	1,626,993	2,360,689	2,292,464	1,934,900	1,716,841	1,755,641
Alberta	110,607	146,765	170,916	200,813	206,485	185,704	220,464
British Columbia	8,612,306	8,563,355	7,310,899	6,293,072	5,330,060	4,934,079	4,345,142
Yukon	24,741	23,419	300	37,371	101	93	—
Northwest Territories	101,539	90,963	153,353	89,224	22,007	11,454	47,205
Canada (excluding coal)	59,920,559	64,637,877	64,226,167	59,354,056	54,634,144	51,897,856	53,686,761

See footnote(s) at end of table.

TABLE 19. Tonnage of Ore Mined and Rock Quarried,¹ by Provinces, 1926-67 - Concluded

Province	1947	1948	1949	1950	1951	1952	1953
Newfoundland ² .....	..	..	2,399,273	2,041,185	2,654,713	2,617,399	3,699,509
Nova Scotia	2,668,572	3,297,583	2,853,006	3,519,562	3,653,600	3,648,167	3,722,578
New Brunswick	342,804	264,749	359,599	3,207,796	1,027,016	455,804	1,328,120
Quebec	21,374,126	24,530,022	24,397,690	29,807,825	32,103,438	33,679,910	34,972,673
Ontario	28,897,304	30,340,213	32,693,186	34,965,824	38,800,085	40,327,014	41,312,894
Manitoba	1,410,880	1,731,380	2,153,953	2,731,787	2,736,240	2,013,792	2,257,143
Saskatchewan	1,875,252	1,962,994	1,790,990	1,547,411	1,646,504	1,489,463	1,065,509
Alberta	222,975	335,477	400,655	442,398	436,489	542,283	779,817
British Columbia	6,705,656	7,613,071	8,874,097	9,008,240	9,118,240	11,183,604	11,785,831
Yukon	20,934	37,830	30,226	77,670	87,074	133,829	192,183
Northwest Territories	133,883	239,254	271,416	353,958	381,161	410,545	483,517
Canada (excluding coal)	63,652,386	70,352,573	76,224,091	87,703,656	92,644,560	96,501,810	101,599,774
	1954	1955	1956 ³	1957	1958	1959	1960
Newfoundland	5,438,153	7,940,676	9,593,643	10,541,432	7,378,993	7,484,035	9,813,738
Prince Edward Island	-	-	-	-	-	1,700,000	750,000
Nova Scotia	13,688,431	4,636,728	4,906,251	4,651,545	3,813,655	6,716,003	5,501,198
New Brunswick	1,048,177	1,484,410	2,475,039	1,963,614	2,541,459	2,445,856	2,218,264
Quebec	40,338,566	50,624,193	57,611,096	63,806,273	63,308,929	76,233,819	84,103,471
Ontario	43,828,925	49,206,738	56,233,453	64,686,691	62,871,982	76,170,363	77,205,111
Manitoba	2,514,433	2,921,792	3,181,811	3,417,325	2,905,751	2,878,546	3,072,092
Saskatchewan	1,230,987	1,228,285	1,514,292	2,524,231	2,895,002	3,175,234	2,640,732
Alberta	780,744	792,055	1,013,726	1,087,703	940,827	1,448,604	1,016,705
British Columbia	10,782,055	13,090,597	13,009,058	12,840,216	9,473,193	10,548,299	12,045,516
Yukon	236,549	163,765	184,652	187,925	177,222	176,081	176,107
Northwest Territories	575,429	597,270	675,083	748,205	762,169	819,923	834,751
Canada (excluding coal)	120,462,449	132,686,509	150,398,104	166,455,160	157,069,182	189,796,763	199,377,746
	1961	1962	1963	1964	1965	1966	1967
Newfoundland	10,798,351	11,573,044	20,723,570	25,297,002	43,295,464	46,925,551	55,156,939
Prince Edward Island	225,000	225,000	225,000	350,000	225,306	200,000	725,383
Nova Scotia	5,640,601	5,512,903	5,894,406	6,113,148	5,941,751	6,166,203	5,494,706
New Brunswick	3,318,923	3,651,628	5,280,287	4,863,899	4,721,433	6,523,506	6,765,293
Quebec	92,136,307	112,716,364	124,366,982	146,162,474	151,376,136	160,910,216	163,903,225
Ontario	72,098,791	69,754,183	68,563,606	75,958,522	83,809,207	81,240,892	88,448,192
Manitoba	5,006,332	5,172,910	7,835,624	5,577,186	5,855,654	6,969,843	7,059,202
Saskatchewan	2,448,097	2,949,468	5,108,186	5,127,525	6,482,675	8,143,826	10,225,658
Alberta	1,040,269	1,160,396	1,169,728	1,160,839	1,357,683	1,383,800	1,407,547
British Columbia	12,425,387	15,091,604	17,310,687	17,218,825	23,413,933	28,508,387	36,592,011
Yukon	189,184	186,977	185,598	169,000	160,201	120,374	664,499
Northwest Territories	821,565	734,118	667,032	739,597	1,405,585	2,699,359	2,624,400
Canada (excluding coal)	206,148,807	228,728,595	257,330,706	288,738,017	328,045,028	349,791,957	379,067,056

¹ Sand and gravel, sodium sulphate, etc., which are not actually mined or blasted are not included.

² Newfoundland joined Confederation, March 1949.

³ Uranium ore included, but it was excluded prior to 1956.

TABLE 20. Average Prices of Copper, Lead, Zinc and Silver, 1949-67
(Copper, lead and zinc in U.S. cents per pound; silver, U.S. cents per ounce)

Year	Yearly average				Year	Yearly average			
	New York		St. Louis	New York		New York		St. Louis	New York
	Copper	Lead	Zinc ¹	Silver ²		Copper	Lead	Zinc ¹	Silver ²
1949	19.202	15.364	12.144	71.930	1959	31.182	12.211	11.448	91.202
1950	21.235	13.296	13.866	74.169	1960	32.053	11.948	12.946	91.375
1951	24.200	17.500	18.000	89.368	1961	29.921	10.871	11.542	92.449
1952	24.200	16.467	16.215	84.941	1962	30.600	9.631	11.625	108.521
1953	28.798	13.489	10.855	85.188	1963	30.600	11.137	11.997	127.912
1954	29.694	14.054	10.681	85.250	1964	31.960	13.596	13.568	129.300
1955	37.491	15.138	12.299	89.099	1965	35.017	16.000	14.500	129.300
1956	41.818	16.013	13.494	90.826	1966	36.170	15.115	14.500	129.300
1957	29.576	14.658	11.399	90.820	1967	38.226	14.000	13.843	154.968
1958	25.674	12.109	10.309	89.044					

¹ Prime western grade.

² Metals week. Beginning 1962 prices are for refined silver. Prices for all other years are for unrefined silver.

Source: "American Bureau of Metal Statistics".

TABLE 21. Average Annual Metal Prices, in Canadian Dollars, 1949-67

Year	Troy oz.		Pound			Year	Troy oz.		Pound		
	Gold	Silver	Copper ¹	Lead ¹	Zinc ¹		Gold	Silver	Copper ¹	Lead ¹	Zinc ¹
	dollars						dollars				
1949	36.00	0.7425	0.1997	0.158	0.1325	1959	33.57	0.8778	0.2961	0.1061	0.1224
1950	38.05	0.8082	0.2342	0.1445	0.1565	1960	33.95	0.8891	0.3029	0.1068	0.1335
1951	36.85	0.9455	0.277	0.184	0.199	1961	35.46	0.9426	0.2919	0.1021	0.1259
1952	34.27	0.8352	0.2854	0.1619	0.1746	1962	37.41	1.1650	0.3100	0.0992	0.1210
1953	34.42	0.8401	0.2994	0.1293	0.1196	1963	37.75	1.3840	0.3150	0.1100	0.1278
1954	34.07	0.8326	0.2916	0.1333	0.1198	1964	37.75	1.4000	0.3340	0.1344	0.1417
1955	34.52	0.8818	0.3687	0.1438	0.1365	1965	37.73	1.3990	0.3760	0.1550	0.1510
1956	34.45	0.8968	0.4141	0.1551	0.1484	1966	37.71	1.3990	0.4490	0.1494	0.1510
1957	33.55	0.8737	0.2895	0.1396	0.1209	1967	37.75	1.7320	0.4757	0.1400	0.1449
1958	33.98	0.8681	0.2542	0.1136	0.1088						

¹ Based on New York 1949-50. Montreal prices in 1951-67.

TABLE 22. Principal Statistics of the Mineral Industry, by Industries, 1963-67

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Mining activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of produc- tion	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000	\$'000					\$'000	\$'000				
Metal mining industries													
Placer gold mines													
1963	24	204	510	1,101	112	508	2,558	1,937	18	75	231	1,297	2,034
1964	22	177	495	1,078	111	521	2,338	1,706	18	80	205	1,263	1,806
1965	21	152	380	889	101	407	1,864	1,355	17	60	176	1,075	1,447
1966	22	105	260	745	93	344	1,775	1,339	18	82	124	936	1,628
1967	22	15	27	76	24	79	360	257	19	43	16	77	260
Gold-quartz mines													
1963	51	12,456	27,961	50,986	6,639	34,728	145,622	104,254	—	—	14,408	62,436	106,156
1964	49	11,843	26,990	51,096	6,868	35,811	142,703	100,025	—	—	13,807	63,192	102,398
1965	56	11,061	24,329	49,183	6,914	36,501	137,943	94,529	—	—	12,979	61,345	97,875
1966	54	9,730	20,834	46,905	6,348	32,914	132,290	93,028	4	24	11,532	58,133	94,123
1967	45	8,683	18,155	43,674	5,954	28,890	120,196	85,352	—	—	10,319	54,412	86,075
Copper-gold-silver mines													
1963	30	8,874	18,658	43,627	7,118	88,522	249,872	154,231	—	—	10,754	55,128	159,315
1964	30	8,813	18,478	44,671	7,384	96,985	282,031	177,662	—	—	10,714	56,534	181,773
1965	35	9,116	19,458	48,157	8,373	106,130	321,621	207,117	—	—	11,086	61,049	211,433
1966	43	9,986	21,502	57,442	9,535	121,532	408,082	277,015	—	—	12,467	73,461	282,415
1967	45	10,776	22,515	65,660	12,463	173,963	543,914	357,488	—	—	13,270	84,118	360,818
Silver-cobalt mines													
1963	11	545	1,234	2,223	322	1,754	7,493	5,418	—	—	653	2,803	5,476
1964	15	559	1,211	2,281	414	2,271	8,216	5,532	—	—	674	2,961	5,594
1965	12	479	1,085	2,112	331	2,254	7,576	4,991	—	—	587	2,732	5,079
1966	8	437	946	1,966	272	1,429	7,417	5,715	—	—	545	2,599	6,003
1967	8	438	880	2,141	264	1,715	8,850	6,870	—	—	519	2,684	6,843
Silver-lead-zinc mines													
1963	19	3,704	8,163	18,909	3,535	48,380	118,964	67,049	x	x	4,510	24,169	69,770
1964	19	4,221	9,286	21,790	4,455	76,701	219,772	138,616	—	—	5,224	28,360	141,255
1965	23	4,486	10,019	25,071	5,322	88,483	271,122	177,317	—	—	5,534	32,428	179,978
1966	24	4,604	9,960	26,993	5,905	99,071	263,217	158,242	—	—	5,811	35,414	159,602
1967	22	4,441	9,429	27,536	6,080	98,311	243,303	138,912	—	—	5,511	35,835	138,454
Nickel-copper mines													
1963	7	10,425	21,202	55,863	4,146	147,504	435,159	283,508	—	—	11,949	67,291	285,340
1964	8	11,546	23,126	61,375	4,366	158,431	528,879	366,082	—	—	13,134	73,599	367,997
1965	8	13,016	26,643	73,900	4,801	200,979	592,028	386,247	—	—	14,806	87,893	389,994
1966	10	13,225	25,482	76,998	4,781	208,067	526,950	314,102	—	—	15,184	94,069	315,901
1967	10	13,699	28,868	98,137	5,345	258,972	641,803	377,487	—	—	16,018	119,615	386,870
Iron mines													
1963	18	6,478	14,779	41,241	12,669	66,333	286,045	207,043	—	—	9,608	63,236	210,440
1964	16	6,696	15,453	44,840	16,694	71,405	328,178	240,079	—	—	9,544	66,540	243,133
1965	18	8,168	19,287	55,053	25,061	90,051	358,393	243,281	—	—	11,739	82,593	247,658
1966	18	7,339	16,430	55,120	26,256	101,690	378,340	250,393	—	—	11,464	87,165	251,494
1967	18	7,001	16,903	58,312	29,944	94,782	414,320	289,595	—	—	10,899	92,267	292,315
Miscellaneous metal mines													
1963	14	3,564	7,670	21,889	4,638	21,324	142,177	116,215	—	—	4,410	27,718	117,031
1964	14	2,872	6,144	17,418	3,824	18,563	86,359	63,972	—	—	3,696	22,620	65,831
1965	15	2,572	5,615	15,092	3,525	16,686	82,056	61,845	—	—	3,279	19,721	63,283
1966	14	2,850	6,199	18,309	4,147	20,215	102,628	78,266	—	—	3,694	24,046	78,859
1967	15	3,209	7,024	22,442	4,410	23,599	106,445	78,437	—	—	4,122	28,999	79,532
Head offices, sales offices and auxiliary units¹													
1963	...	...	...	...	...	...	...	...	...	...	596	6,032	524
1964	...	...	...	...	...	...	...	...	...	...	650	6,537	667
1965	...	...	...	...	...	...	...	...	...	...	756	8,020	690
1966	...	...	...	...	...	...	...	...	...	...	849	9,319	1,170
1967	...	...	...	...	...	...	...	...	...	...	1,054	11,374	1,260

See footnote(s) at end of report.

TABLE 22. Principal Statistics of the Mineral Industry, by Industries, 1963-67 - Continued
 Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Mining activity						Total activity					
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of produc- tion	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000			\$ '000				\$'000		\$'000			
Totals, metal mining industries													
1963	174	46,250	100,178	235,839	39,179	409,054	1,387,889	939,656	x	x	57,119	310,108	956,085
1964	174	46,727	101,184	244,549	44,115	460,688	1,598,477	1,093,674	18	80	57,648	321,605	1,110,455
1965	187	49,050	106,815	269,457	54,428	541,491	1,772,602	1,176,683	17	60	60,942	356,855	1,197,436
1966	193	48,276	101,614	284,477	57,337	585,262	1,820,698	1,178,100	22	106	61,670	385,143	1,191,194
1967	185	48,262	103,800	317,978	64,483	680,311	2,079,191	1,334,397	19	43	61,728	429,383	1,352,425
Non-metal mining industries													
Asbestos													
1963	13	5,656	12,115	28,012	7,709	22,337	142,134	112,088	--	--	6,828	35,570	114,139
1964	11	5,269	11,914	29,132	7,749	22,683	151,414	120,982	--	--	6,544	37,852	123,539
1965	10	5,355	11,030	29,903	8,320	24,934	152,150	118,896	--	--	6,536	38,681	121,699
1966	10	5,527	12,518	32,632	9,005	26,965	170,664	134,694	--	--	6,736	42,229	134,903
1967	11	5,651	13,003	35,864	9,538	27,912	174,368	136,918	--	--	6,931	46,214	136,905
Feldspar, quartz and nepheline syenite													
1963	15	268	551	1,068	343	1,033	5,728	4,351	x	x	338	1,449	4,365
1964	16	303	657	1,296	453	1,326	7,552	5,773	x	x	395	1,784	5,795
1965	15	291	670	1,348	478	1,591	8,272	6,202	x	x	381	1,882	6,205
1966	12	280	635	1,385	441	1,480	8,137	6,217	x	x	367	1,920	6,297
1967	11	283	647	1,492	485	1,460	8,729	6,784	--	--	373	2,052	6,956
Gypsum													
1963	9	565	1,236	2,293	450	2,233	9,771	7,089	--	--	677	2,919	7,076
1964	10	591	1,332	2,553	486	2,058	10,391	7,847	--	--	710	3,278	7,902
1965	10	531	1,163	2,272	424	1,460	9,742	7,858	--	--	646	2,966	7,886
1966	10	471	1,014	2,047	390	1,489	9,432	7,553	--	--	585	2,813	7,532
1967	9	406	881	1,934	381	1,443	9,793	7,968	--	--	505	2,610	7,981
Iron oxides (ochres) and mica													
1963-1967	Included in miscellaneous non-metal mines												
Peat													
1963	45	1,198	2,517	3,343	398	2,699	9,938	6,841	7	29	1,303	3,915	7,046
1964	51	1,173	2,429	3,279	387	2,868	9,965	6,711	7	31	1,290	3,965	6,765
1965	54	1,055	2,188	3,016	375	2,884	10,282	7,023	23	74	1,201	3,916	7,254
1966	56	1,107	2,335	3,379	368	2,977	9,773	6,428	24	79	1,254	4,257	6,373
1967	60	1,148	2,271	3,696	412	3,221	11,531	7,898	22	76	1,261	4,421	7,924
Salt													
1963	11	782	1,634	3,584	1,282	3,585	22,275	17,408	--	--	1,124	5,560	17,546
1964	11	777	1,788	3,758	1,365	3,906	23,104	17,834	--	--	1,130	5,767	18,112
1965	10	817	1,881	4,140	1,396	5,102	24,750	18,251	--	--	1,204	6,410	18,662
1966	10	828	1,755	4,137	1,316	4,302	23,418	17,800	--	--	1,261	6,755	18,062
1967	10	871	1,930	4,828	1,369	5,058	27,514	21,087	--	--	1,288	7,775	21,419
Talc and soapstone													
1963	4	63	145	194	44	135	830	651	--	--	80	277	648
1964	4	71	163	224	47	144	916	725	--	--	91	324	720
1965	4	77	178	259	50	136	888	702	--	--	96	353	699
1966	4	79	179	276	54	274	1,077	748	--	--	99	386	746
1967	4	78	175	309	57	291	988	640	--	--	99	426	634
Miscellaneous non-metal mines													
1963	15	988	2,152	4,404	2,550	4,338	36,809	29,920	x	x	1,311	6,735	29,936
1964	17	1,139	2,459	5,453	3,425	6,249	47,838	38,165	x	x	1,567	7,979	38,260
1965	17	1,498	3,284	7,837	5,210	10,320	75,072	59,542	--	--	2,052	11,523	59,699
1966	14	1,531	3,330	8,798	5,274	10,587	77,291	61,430	--	--	2,120	12,581	61,179
1967	15	1,979	4,095	11,922	6,449	14,368	85,085	64,268	--	--	2,620	16,976	64,573

TABLE 22. Principal Statistics of the Mineral Industry, by Industries, 1963-67 - Concluded

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Mining activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity ²	Cost of materials and supplies ³	Value of produc- tion	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000			\$'000		
Totals, non-metal mining industries													
1963.....	112	9,520	20,350	42,959	12,776	36,360	227,485	178,349	x	x	11,661	56,425	180,755
1964.....	120	9,323	20,741	45,694	13,910	39,233	251,179	198,036	x	x	11,727	60,950	201,093
1965.....	120	9,624	20,395	48,776	16,253	46,428	281,156	218,475	x	x	12,116	65,732	222,104
1966.....	116	9,823	21,766	52,654	16,849	48,075	299,793	234,869	x	x	12,422	70,941	235,091
1967.....	120	10,416	23,001	60,045	18,691	53,753	318,007	245,563	22	76	13,077	80,472	246,394
Fuel industries													
Coal													
1963.....	90	8,076	16,203	32,472	3,668	12,651	71,685	55,367	-	-	9,828	41,025	55,795
1964.....	82	8,097	16,157	34,199	3,748	14,132	73,130	55,250	-	-	9,796	42,768	55,662
1965.....	78	8,046	16,203	35,233	3,811	16,041	76,327	56,475	-	-	9,697	43,968	56,784
1966.....	72	7,628	15,895	35,121	3,566	15,231	81,520	62,722	-	-	9,418	44,407	62,964
1967.....	63	7,368	14,193	36,807	3,363	14,733	82,925	64,829	-	-	8,981	46,288	65,018
Petroleum and natural gas													
1963.....	624	3,378	7,075	19,280	13,334	21,331	818,457	783,792	-	-	11,237	76,012	796,444
1964.....	640	3,302	7,236	18,884	13,531	22,171	903,573	867,871	-	-	11,242	77,306	880,828
1965.....	675	3,262	7,050	19,689	14,080	23,724	978,135	940,331	-	-	11,817	84,687	952,409
1966.....	648	3,375	7,026	21,914	12,952	29,159	1,092,535	1,050,424	-	-	12,378	95,997	1,059,395
1967.....	745	3,551	7,472	25,949	13,453	30,896	1,229,686	1,183,814	-	-	13,113	111,855	1,189,495
Totals, fuel industries													
1963.....	714	11,454	23,278	51,752	17,002	33,982	890,142	839,159	-	-	21,065	117,037	852,239
1964.....	722	11,399	23,393	53,083	17,279	36,303	976,703	923,121	-	-	21,038	120,074	936,490
1965.....	753	11,308	23,252	54,922	17,891	39,765	1,054,463	996,806	-	-	21,514	128,655	1,009,193
1966.....	720	11,003	22,921	57,035	16,518	44,390	1,174,055	1,113,146	-	-	21,796	140,404	1,122,359
1967.....	808	10,919	21,665	62,756	16,816	45,629	1,312,611	1,248,643	-	-	22,094	158,143	1,254,513
Structural materials													
Sand and gravel													
1963.....	238	1,761	4,110	7,568	2,759	6,310	35,228	26,159	89	360	2,209	10,038	26,209
1964.....	227	1,845	4,369	8,166	2,889	7,778	40,843	30,175	85	365	2,326	10,902	30,770
1965.....	243	2,182	5,183	10,351	3,706	8,980	51,388	38,702	79	365	2,737	13,865	39,431
1966.....	229	2,053	4,814	10,227	3,615	9,810	52,115	38,691	79	373	2,611	13,923	39,219
1967.....	207	1,854	4,239	10,440	3,334	9,713	50,230	37,182	71	325	2,398	14,428	37,547
Stone													
1963.....	184	2,877	6,907	11,843	3,691	11,690	55,420	40,039	29	97	3,477	15,207	40,264
1964.....	180	3,043	7,540	13,274	4,083	14,366	64,498	46,049	26	96	3,718	17,196	46,706
1965.....	164	2,882	6,897	13,225	4,114	13,474	62,833	45,244	29	101	3,511	16,995	46,103
1966.....	165	3,040	7,042	15,103	4,549	18,572	71,207	48,085	31	106	3,701	19,168	48,661
1967.....	160	2,779	6,478	14,271	4,239	15,651	63,319	43,428	29	117	3,381	18,251	43,522
Totals, structural materials													
1963.....	422	4,638	11,017	19,411	6,450	18,000	90,649	66,198	118	457	5,686	25,245	66,474
1964.....	407	4,888	11,909	21,440	6,972	22,145	105,340	76,224	111	462	6,044	28,098	77,477
1965.....	407	5,064	12,079	23,576	7,820	22,454	114,221	83,946	108	466	6,248	30,860	85,536
1966.....	394	5,093	11,855	25,330	8,164	28,382	123,322	86,776	110	480	6,312	33,091	87,880
1967.....	367	4,633	10,717	24,711	7,574	25,365	113,549	80,610	100	442	5,779	32,679	81,070
Totals, mining industries													
1963.....	1,422	71,862	154,823	349,961	75,407	497,396	2,596,166	2,023,363	x	x	95,531	508,816	2,055,552
1964.....	1,423	72,337	157,227	364,766	82,277	558,369	2,931,700	2,291,054	x	x	96,457	530,727	2,325,515
1965.....	1,467	75,046	162,542	396,731	96,393	650,139	3,222,441	2,475,910	x	x	100,820	582,101	2,514,269
1966.....	1,423	74,195	158,156	419,496	98,867	706,109	3,417,868	2,612,891	x	x	102,200	629,580	2,636,524
1967.....	1,480	74,230	159,182	465,489	107,563	805,058	3,823,358	2,909,214	141	561	102,678	700,677	2,934,401

¹ Refer to Explanatory Notes, page 4, for explanation of Concepts and Definitions.² Excludes cost of fuel used in the Crude Petroleum and Natural Gas Industry.³ Includes cost of fuel used in the Crude Petroleum and Natural Gas Industry.

TABLE 23. Principal Statistics of Selected Manufacturing Industries Related to Mining, 1963-67

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of produc- tion	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000			\$'000					\$'000		\$'000		
Smelting and refining													
1963	23	21,553	45,176	112,191	47,055	295,825	639,659	296,779	-	-	28,516	159,151	307,247
1964	23	23,239	48,900	126,109	52,968	314,567	718,254	350,699	-	-	30,153	174,450	364,749
1965	23	24,382	52,190	139,120	57,950	305,468	770,690	407,272	-	-	31,835	192,668	427,651
1966	23	24,593	50,896	145,402	62,829	347,280	826,167	416,058	-	-	34,237	209,528	433,858
1967	24	26,122	55,594	169,772	65,137	348,753	862,014	448,124	-	-	34,764	236,340	463,321
Clay products													
1963	89	2,930	6,329	11,056	5,406	4,966	37,566	27,193	7	18	3,519	14,319	27,572
1964	88	2,923	6,504	11,728	5,578	5,879	39,781	28,324	11	25	3,577	15,495	28,633
1965	83	2,904	6,454	12,506	5,888	6,322	43,306	31,095	11	26	3,522	16,231	31,357
1966	81	2,911	6,390	13,551	5,888	7,280	43,662	30,494	13	40	3,510	17,362	30,681
1967	78	2,723	5,959	13,276	5,737	7,547	44,189	30,906	13	44	3,300	17,352	31,074
Cement													
1963	20	2,526	5,549	13,534	17,920	16,292	122,028	87,816	-	-	3,566	20,558	87,881
1964	20	2,502	5,522	13,942	19,354	16,593	131,350	95,402	-	-	3,592	21,289	95,097
1965	22	2,644	6,039	16,185	22,515	19,767	146,363	104,081	-	-	3,837	24,422	104,045
1966	25	2,815	6,277	17,982	24,851	22,560	158,459	111,048	-	-	4,053	26,993	110,974
1967	24	2,654	5,860	17,456	21,889	21,038	143,423	100,496	-	-	3,972	27,389	100,294
Lime													
1963	21	698	1,535	3,118	2,427	2,221	14,915	10,277	x	x	886	4,058	10,365
1964	17	619	1,369	2,836	2,594	2,302	15,369	10,473	x	x	815	3,897	10,478
1965	14	644	1,438	3,078	2,862	2,545	16,198	10,791	x	x	800	3,934	10,774
1966	13	626	1,408	3,119	2,782	2,439	14,046	8,825	-	-	785	4,077	9,049
1967	13	577	1,273	3,119	2,612	2,294	12,674	7,769	-	-	724	4,043	7,973
Totals													
1963	153	27,707	58,589	139,899	72,808	319,294	814,168	422,065	x	x	36,487	198,086	433,065
1964	148	29,283	62,296	154,615	80,514	339,341	904,754	484,899	x	x	38,137	215,130	498,957
1965	142	30,574	66,121	170,889	89,216	334,103	976,558	553,239	x	x	39,994	237,255	573,827
1966	142	30,945	64,970	180,054	96,349	379,558	1,042,333	566,425	13	40	42,585	257,959	584,562
1967	139	32,076	68,687	203,623	95,375	379,631	1,062,301	587,295	13	44	42,760	285,124	602,662

TABLE 24. Principal Statistics of the Mineral Industries by Provinces, 1963-67

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Year	Estab- lish- ments	Mining activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity ²	Cost of materials and supplies ³	Value of produc- tion	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000	\$'000						\$'000		\$'000			
Newfoundland													
1963	16	3,535	8,227	20,509	7,539	34,827	117,016	74,649	x	x	4,389	25,840	78,090
1964	14	3,906	9,378	23,618	11,610	40,372	147,362	95,380	x	x	4,826	29,659	99,364
1965	16	5,167	12,644	31,910	18,658	55,435	172,330	98,237	x	x	6,609	42,054	103,368
1966	15	4,645	11,142	33,093	19,179	69,673	206,313	117,461	x	x	5,783	41,391	120,806
1967	16	4,555	11,367	34,527	21,661	64,711	219,504	133,132	3	7	5,533	42,604	136,856
Prince Edward Island													
1963	1	x	x	x	x	x	x	x	-	-	x	x	x
1964	2	x	x	x	x	x	x	x	x	x	x	x	x
1965	2	x	x	x	x	x	x	x	x	x	x	x	x
1966	1	x	x	x	x	x	x	x	x	x	x	x	x
1967	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia													
1963	39	6,528	13,439	26,109	2,847	12,360	61,376	46,169	5	15	8,125	33,760	46,371
1964	39	6,501	13,325	27,071	2,994	12,588	61,180	45,598	6	15	8,059	34,699	45,750
1965	40	6,481	13,407	27,929	2,994	13,892	64,205	47,319	9	30	7,983	35,697	47,524
1966	37	6,190	13,142	27,883	2,879	13,232	70,034	53,923	7	18	7,712	35,973	53,997
1967	34	6,050	11,718	29,620	2,702	13,017	70,239	54,520	10	27	7,524	38,027	54,609
New Brunswick													
1963	26	1,313	2,865	4,459	1,249	6,291	18,240	10,700	-	-	1,471	5,354	10,836
1964	33	1,606	3,559	5,966	1,910	17,014	44,060	25,136	-	-	1,865	7,383	25,450
1965	31	1,768	3,918	7,286	2,264	27,958	66,694	36,472	-	-	2,060	9,004	36,854
1966	37	1,842	4,023	7,789	2,487	32,203	66,212	31,522	-	-	2,348	10,539	31,945
1967	41	1,943	4,037	8,808	2,722	36,640	71,960	32,593	x	x	2,300	11,168	32,801
Quebec													
1963	244	18,438	40,531	86,133	20,018	112,895	451,894	318,981	33	118	23,759	120,798	321,909
1964	260	18,385	41,126	90,787	20,890	141,074	561,263	399,299	38	153	23,795	127,668	402,713
1965	253	18,825	41,005	95,056	22,167	148,918	588,587	417,502	48	173	24,323	134,251	421,802
1966	241	18,320	40,396	98,584	23,050	156,759	638,783	458,974	55	191	25,028	147,315	457,978
1967	237	17,750	39,241	102,366	23,392	149,890	622,281	448,999	57	221	24,188	153,430	449,230
Ontario													
1963	409	26,326	56,483	127,441	19,199	200,845	715,263	495,219	71	286	31,194	161,432	501,130
1964	365	26,194	56,451	130,041	19,813	213,978	773,839	540,048	60	264	31,055	164,823	545,473
1965	339	26,651	56,854	138,683	20,837	255,349	828,558	552,372	59	273	31,687	175,946	559,885
1966	327	26,406	53,793	143,858	21,208	265,505	786,649	499,935	62	312	31,582	184,226	505,874
1967	281	25,832	54,533	162,982	23,692	351,202	1,017,339	642,508	44	228	31,484	210,368	655,296

See footnote(s) at end of table.

TABLE 24. Principal Statistics of the Mineral Industries, by Provinces, 1963-67 - Concluded

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Mining activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity ²	Cost of materials and supplies ³	Value of produc- tion	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000			\$'000				\$'000		\$'000			
Manitoba													
1963	67	3,469	7,302	18,648	1,466	34,722	127,732	91,544	4	17	4,319	23,990	93,691
1964	77	3,549	7,414	19,176	1,485	34,092	140,673	105,096	4	14	4,452	25,235	107,098
1965	87	3,484	7,450	20,562	1,829	38,707	149,917	109,380	x	x	4,448	27,331	111,491
1966	79	3,431	7,233	21,848	1,872	40,842	140,148	97,434	x	x	4,475	29,847	99,980
1967	84	3,837	8,272	26,814	2,055	47,877	147,209	97,177	x	x	4,988	36,488	97,832
Saskatchewan													
1963	153	2,065	4,406	12,116	6,731	15,880	260,418	237,808	6	23	3,193	20,065	239,766
1964	157	2,030	4,256	11,943	7,349	16,331	281,903	258,223	5	18	3,162	19,392	261,473
1965	163	2,408	5,105	14,450	9,507	21,492	322,805	291,806	5	22	3,634	22,960	294,314
1966	156	2,655	5,700	17,022	10,581	26,145	344,121	307,395	4	19	4,029	26,921	308,856
1967	187	3,206	6,656	21,210	11,850	29,291	347,397	305,289	3	16	4,498	31,943	305,348
Alberta													
1963	290	3,611	7,428	19,516	10,044	19,131	610,979	581,805	3	13	10,726	70,780	593,272
1964	267	3,653	7,720	19,754	9,905	20,151	669,526	639,470	3	13	10,927	73,214	650,665
1965	295	3,664	7,653	20,478	10,094	22,088	722,706	690,524	3	11	11,553	80,228	702,190
1966	279	3,571	7,296	21,734	8,378	25,104	808,627	775,145	4	17	11,954	89,913	783,345
1967	287	3,770	7,668	25,443	8,747	27,853	933,814	897,072	x	x	12,745	105,615	903,412
British Columbia													
1963	124	5,226	11,070	27,360	4,641	52,457	201,957	144,859	8	31	6,705	37,161	147,911
1964	128	5,058	10,563	27,520	4,601	54,667	218,812	159,544	4	19	6,523	37,556	162,917
1965	154	5,065	10,801	30,042	5,592	55,066	241,041	180,383	5	19	6,569	41,284	183,933
1966	160	5,639	12,898	36,376	6,450	54,724	275,486	214,311	6	35	7,397	49,211	216,154
1967	190	5,913	12,558	42,816	7,560	62,960	311,650	240,700	4	8	7,645	56,751	240,896
Yukon, Northwest Territories, Arctic Islands, Off Shore and Hudson Bay													
1963	53	x	x	x	x	x	x	x	x	x	x	x	x
1964	61	x	x	x	x	x	x	x	x	x	x	x	x
1965	87	x	x	x	x	x	x	x	x	x	x	x	x
1966	91	x	x	x	x	x	x	x	x	x	x	x	x
1967	123	1,374	3,130	10,904	3,184	21,616	81,964	57,226	17	41	1,773	14,283	58,183
Totals													
1963	1,422	71,862	154,823	349,961	75,407	497,396	2,596,166	2,023,363	x	x	95,531	508,816	2,055,552
1964	1,423	72,337	157,227	364,766	82,277	558,369	2,931,700	2,291,054	x	x	96,457	530,727	2,325,515
1965	1,467	75,046	162,542	396,731	96,393	650,139	3,222,441	2,475,910	x	x	100,820	582,101	2,514,269
1966	1,423	74,195	158,156	419,496	98,867	706,109	3,417,868	2,612,891	x	x	102,200	629,580	2,636,524
1967	1,480	74,230	159,182	463,489	107,563	805,058	3,823,358	2,909,214	141	561	102,678	700,677	2,934,401

¹ Refer to Explanatory Notes, page 4, for explanation of Concepts and Definitions.² Excludes cost of fuel used in the Crude Petroleum and Natural Gas Industry.³ Includes cost of fuel used in the Crude Petroleum and Natural Gas Industry.

GENERAL REVIEW OF THE MINERAL INDUSTRY

TABLE 25. Employees and their Earnings in the Mineral Industry, by Industries, 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

Industry	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istra- tive and office	Sales and distrib- ution	Total
	Mining		Other		Male	Female	Male	Female	Male	Female	Mining	Other			
	Male	Female	Male	Female											
	number										\$'000				
Metal mining:															
Placer gold	103	2	—	—	14	5	—	—	117	7	745	—	191	—	936
Gold-quartz	9,680	50	46	21	1,560	175	—	—	11,286	246	46,905	330	10,897	—	58,133
Copper-gold-silver	9,947	39	141	3	2,074	261	2	—	12,164	303	57,442	518	15,490	10	73,461
Silver-cobalt	434	3	16	—	86	6	—	—	536	9	1,966	52	581	—	2,599
Silver-lead-zinc	4,547	57	108	—	1,022	77	—	—	5,677	134	26,993	479	7,942	—	35,414
Nickel-copper	13,213	12	83	—	1,778	98	—	—	15,074	110	76,998	492	16,579	—	94,069
Iron	7,329	10	1,042	16	2,561	506	—	—	10,932	532	55,120	7,754	24,292	—	87,167
Miscellaneous metals	2,844	6	55	1	712	76	—	—	3,611	83	18,309	313	5,425	—	24,046
Head offices, sales offices and auxiliary units .....	...	...	...	...	631	218	...	...	631	218	...	...	9,319	...	9,319
Totals	48,097	179	1,491	41	10,438	1,422	2	—	60,028	1,642	284,477	9,939	90,716	10	385,143
Non-metallics:															
Asbestos	5,487	40	22	—	986	156	24	21	6,519	217	32,632	136	9,130	330	42,229
Feldspar and quartz	279	1	5	—	69	13	—	—	353	14	1,385	16	518	—	1,920
Gypsum	470	1	—	—	104	10	—	—	574	11	2,047	—	766	—	2,813
Peat	1,097	10	1	—	102	41	3	—	1,203	51	3,379	3	852	22	4,257
Salt	795	33	1	—	344	83	5	—	1,145	116	4,137	12	2,576	30	6,755
Talc and soapstone	79	—	—	—	17	3	—	—	96	3	276	—	110	—	386
Miscellaneous	1,530	1	6	—	518	65	—	—	2,054	66	8,798	27	3,757	—	12,581
Totals	9,737	86	35	—	2,140	371	32	21	11,944	478	52,654	195	17,710	382	70,941
Fuels:															
Coal	7,628	—	—	—	1,678	112	—	—	9,306	112	35,121	—	9,286	—	44,407
Petroleum and natural gas	3,350	25	—	—	6,839	2,164	—	—	10,189	2,189	21,914	—	74,083	—	95,997
Totals	10,978	25	—	—	8,517	2,276	—	—	19,495	2,301	57,035	—	83,369	—	140,404
Structural materials:															
Sand and gravel	2,052	1	5	—	405	111	34	3	2,496	115	10,227	24	3,467	206	13,904
Stone	3,040	—	9	—	449	132	69	2	3,567	134	15,103	37	3,563	464	19,174
Totals	5,092	1	14	—	854	243	103	5	6,063	249	25,330	61	7,030	671	33,091
Totals, mineral industry...	73,904	291	1,540	41	21,949	4,312	137	26	97,530	4,670	419,496	10,195	198,825	1,063	629,580

TABLE 26. Employees and their Earnings in the Mineral Industry, by Provinces, 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

Province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istra- tive and office	Sales and distrib- ution	Total
	Mining		Other		Male	Female	Male	Female	Male	Female	Mining	Other			
	Male	Female	Male	Female											
	number										\$'000				
Newfoundland	4,608	37	40	—	900	197	—	—	5,548	234	33,093	229	8,069	—	41,391
Prince Edward Island	x	—	—	—	—	—	—	—	x	—	x	—	—	—	x
Nova Scotia	6,180	10	1	—	1,451	64	6	—	7,638	74	27,883	4	8,051	35	35,973
New Brunswick	1,842	—	71	—	402	33	—	—	2,315	33	7,789	343	2,407	—	10,539
Quebec	18,263	57	1,114	18	4,687	796	71	22	24,135	893	98,584	7,970	40,141	620	147,315
Ontario	26,339	67	205	6	4,357	568	37	3	30,938	644	143,858	1,058	39,061	249	184,226
Manitoba	3,401	30	25	16	835	166	2	—	4,263	212	21,848	191	7,784	23	29,847
Saskatchewan	2,643	12	7	—	1,129	238	—	—	3,779	250	17,022	22	9,877	—	26,921
Alberta	3,543	28	—	—	6,356	2,020	7	—	9,906	2,048	21,734	—	68,136	43	89,913
British Columbia	5,606	33	77	1	1,482	183	14	1	7,179	218	36,376	378	12,363	94	49,211
Yukon, Northwest Territories and Arctic Islands	x	x	—	—	x	x	—	—	x	x	x	—	x	—	x
Totals	73,904	291	1,540	41	21,949	4,312	137	26	97,530	4,670	419,496	10,195	198,825	1,063	629,580

TABLE 27. Employees and their Earnings in the Mineral Industry, by Industries, 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Industry	Employees										Salaries and wages				
	Production and related workers				Admini- strative and office		Sales and distribution		Total		Production and related workers		Admini- strative and office	Sales and distrib- ution	Total
	Mining		Other		Male	Female	Male	Female	Male	Female	Mining	Other			
	Male	Female	Male	Female											
	number										\$'000				
Metal mining:															
Placer gold	12	3	—	—	1	—	—	—	13	3	76	—	1	—	77
Gold-quartz	8,645	38	26	14	1,458	138	—	—	10,129	190	43,674	184	10,554	—	54,412
Copper-gold-silver	10,719	57	60	2	2,149	281	2	—	12,930	340	65,660	88	18,360	10	84,118
Silver-cobalt	435	3	—	—	74	7	—	—	509	10	2,141	—	543	—	2,684
Silver-lead-zinc	4,384	57	2	—	984	84	—	—	5,370	141	27,536	17	8,283	—	35,835
Nickel-copper	13,687	12	3	1	2,180	135	—	—	15,870	148	98,137	15	21,463	—	119,615
Iron	6,988	13	997	—	2,430	471	—	—	10,415	484	58,312	8,067	25,889	—	92,267
Miscellaneous metals	3,200	9	3	—	817	93	—	—	4,020	102	22,442	17	6,540	—	28,999
Head offices, sales offices and auxiliary units	—	—	—	—	745	309	—	—	745	309	—	—	11,374	—	11,374
Totals	48,070	192	1,091	17	10,838	1,518	2	—	60,001	1,727	317,978	8,389	103,006	10	429,383
Non-metallics:															
Asbestos	5,612	39	8	—	1,069	157	27	19	6,716	215	35,864	60	9,920	370	46,214
Feldspar and quartz	283	—	7	—	70	9	3	1	363	10	1,492	22	516	21	2,052
Gypsum	405	1	—	—	92	7	—	—	497	8	1,934	—	675	—	2,610
Peat	1,140	8	—	—	93	20	—	—	1,233	28	3,696	—	724	—	4,421
Salt	837	34	—	—	326	86	5	—	1,168	120	4,828	—	2,914	33	7,775
Talc and soapstone	78	—	—	—	17	4	—	—	95	4	309	—	117	—	426
Miscellaneous	1,978	1	—	—	574	67	—	—	2,552	68	11,922	—	5,054	—	16,976
Totals	10,333	83	15	—	2,241	350	35	20	12,624	453	60,045	82	19,921	424	80,472
Fuels:															
Coal	7,368	—	—	—	1,542	71	—	—	8,910	71	36,807	—	9,481	—	46,288
Petroleum and natural gas	3,533	18	—	—	7,423	2,139	—	—	10,956	2,157	25,949	—	85,906	—	111,855
Totals	10,901	18	—	—	8,965	2,210	—	—	19,866	2,228	62,756	—	95,387	—	158,143
Structural materials:															
Sand and gravel	1,853	1	3	—	388	108	44	1	2,288	110	10,440	20	3,735	233	14,428
Stone	2,779	—	—	—	406	120	74	2	3,259	122	14,271	—	3,473	507	18,251
Totals	4,632	1	3	—	794	228	118	3	5,547	232	24,712	20	7,209	740	12,679
Totals, mineral industry ...	73,936	294	1,109	17	22,838	4,306	155	23	98,038	4,640	465,489	8,491	225,523	1,174	700,677

TABLE 28. Employees and their Earnings in the Mineral Industry, by Provinces, 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Province	Employees										Salaries and wages				
	Production and related workers				Admini- strative and office		Sales and distribution		Total		Production and related workers		Admini- strative and office	Sales and distrib- ution	Total
	Mining		Other		Male	Female	Male	Female	Male	Female	Mining	Other			
	Male	Female	Male	Female											
	number										\$'000				
Newfoundland	4,511	44	—	—	820	158	—	—	5,331	202	34,527	—	8,077	—	42,604
Prince Edward Island	—	—	—	—	—	58	—	—	—	—	—	—	—	—	—
Nova Scotia	6,040	10	—	—	1,410	58	6	—	7,456	68	29,620	—	8,368	39	38,027
New Brunswick	1,943	—	—	—	322	35	—	—	2,265	35	8,808	—	2,360	—	11,168
Quebec	17,691	59	1,059	2	4,507	774	76	20	23,333	855	102,368	8,167	42,229	668	153,430
Ontario	25,772	60	12	4	4,896	682	56	2	30,736	748	162,982	72	46,956	358	210,388
Manitoba	3,806	31	27	9	942	169	3	1	4,778	210	26,814	167	9,479	27	36,488
Saskatchewan	3,197	9	3	1	1,100	188	—	—	4,300	198	21,210	15	10,718	—	31,943
Alberta	3,746	24	—	—	6,949	2,020	6	—	10,701	2,044	25,443	—	80,136	37	105,615
British Columbia	5,878	35	2	1	1,547	174	8	—	7,435	210	42,816	21	13,870	44	56,751
Yukon, Northwest Territories, Arctic Islands, Off Shore and Hudson Bay	1,352	22	6	—	345	48	—	—	1,703	70	10,904	48	3,331	—	14,283
Totals	73,936	294	1,109	17	22,838	4,306	155	23	98,038	4,640	465,489	8,491	225,523	1,174	700,677

TABLE 29. Employees and their Earnings, by Provinces and by Mineral Classes, 1966 and 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Metals		Non-metals		Fuels		Stone, sand and gravel	
	Employees	Salaries and wages	Employees	Salaries and wages	Employees	Salaries and wages	Employees	Salaries and wages
	No.	\$'000	No.	\$'000	No.	\$'000	No.	\$'000
1966								
Newfoundland	4,989	36,899	764	4,378	—	—	x	x
Prince Edward Island	—	—	—	—	—	—	x	x
Nova Scotia	—	—	932	4,379	6,593	30,767	187	826
New Brunswick	990	5,336	325	1,007	890	3,631	143	566
Quebec	15,445	93,753	7,100	41,079	7	40	2,476	12,442
Ontario	28,050	164,554	747	4,076	273	1,845	2,512	13,750
Manitoba	3,957	27,301	178	725	65	439	275	1,382
Saskatchewan	1,230	8,512	1,447	9,195	1,272	8,225	80	389
Alberta	—	—	89	413	11,635	88,206	230	1,205
British Columbia	5,161	34,914	840	5,690	1,017	6,282	379	2,324
Yukon, Northwest Territories and Arctic Islands	1,848	13,874	—	—	44	361	—	—
Totals	61,670	385,143	12,422	70,941	21,796	140,396	6,312	33,091
1967								
Newfoundland	4,776	37,966	727	4,511	—	—	30	127
Prince Edward Island	—	—	—	—	—	—	—	—
Nova Scotia	—	—	850	4,190	6,497	32,951	177	886
New Brunswick	1,090	6,098	325	1,108	737	3,354	148	608
Quebec	14,821	98,174	7,216	44,247	6	35	2,145	10,973
Ontario	28,131	189,246	766	4,819	261	1,902	2,326	14,401
Manitoba	4,469	33,868	178	738	66	439	275	1,443
Saskatchewan	1,305	9,468	2,001	13,669	1,131	8,529	61	276
Alberta	—	—	100	485	12,406	103,653	239	1,478
British Columbia	5,454	41,079	854	6,182	959	7,004	379	2,436
Yukon, Northwest Territories, Arctic Islands, Off Shore and Hudson Bay	1,682	13,483	60	524	31	276	—	—
Totals	61,728	429,383	13,077	80,472	22,094	158,143	5,779	32,679

TABLE 30. Wage-earners on the Surface, Underground and in the Mill, 1966 and 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Metal mines			Non-metallics			Fuels		Stone, sand and gravel	
	Surface	Under-ground	Mill	Surface	Under-ground	Mill	Surface	Under-ground	Surface	Mill
	number									
1966										
Newfoundland	2,486	693	809	296	116	217	—	—	x	x
Prince Edward Island	—	—	—	—	—	—	—	—	x	x
Nova Scotia	—	—	—	473	95	176	524	4,774	128	20
New Brunswick	176	264	270	187	—	103	475	256	69	42
Quebec	3,459	5,077	1,964	2,848	337	2,566	—	—	1,660	409
Ontario	5,665	15,127	2,879	102	184	312	159	—	1,923	55
Manitoba	599	1,642	774	51	—	96	47	—	169	53
Saskatchewan	134	488	283	10	361	594	717	—	68	—
Alberta	—	—	—	20	—	50	2,874	456	171	—
British Columbia	1,048	2,056	910	219	1	409	400	299	290	7
Yukon, Northwest Territories, Arctic Islands, Off Shore and Hudson Bay	609	647	217	—	—	—	19	3	—	—
Totals	14,176	25,994	8,106	4,206	1,094	4,523	5,215	5,788	4,507	586
1967										
Newfoundland	2,204	644	1,059	406	99	114	—	—	29	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	398	100	177	513	4,724	126	12
New Brunswick	318	249	295	181	—	104	478	202	76	40
Quebec	3,149	4,794	2,203	2,822	393	2,609	—	—	1,374	406
Ontario	5,594	14,643	3,010	120	196	294	163	—	1,759	53
Manitoba	629	1,975	818	54	—	93	43	—	165	60
Saskatchewan	176	531	293	7	592	877	677	—	53	—
Alberta	—	—	—	15	—	66	3,085	430	174	—
British Columbia	1,294	2,029	1,035	233	2	424	408	182	300	6
Yukon, Northwest Territories, Arctic Islands, Off Shore and Hudson Bay	500	617	203	18	—	22	13	1	—	—
Totals	13,864	25,482	8,916	4,254	1,382	4,780	5,380	5,539	4,056	577

TABLE 31 A. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and by Industries, 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

No.	Industry	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Fuel oil and kerosene	Wood
		Canadian	Imported							
		tons						Imp. gal.		cords
1	Metal mining:									
2	Placer gold	17	—	—	—	—	—	19,594	50,849	630
3		\$'000	1	—	—	—	—	9	16	16
4	Gold-quartz	97	6,225	—	39	—	1	305,820	4,375,258	793
5		\$'000	2	108	—	1	—	132	867	13
6	Copper-gold-silver	166	974	—	28	9	35	840,588	10,609,041	—
7		\$'000	4	18	—	—	1	326	1,985	—
8	Silver-cobalt	88	297	—	—	—	—	36,420	191,308	—
9		\$'000	2	8	—	—	—	17	36	—
10	Silver-lead-zinc	6,622	1,956	—	—	159	—	458,615	7,841,935	—
11		\$'000	140	30	—	3	—	179	1,334	—
12	Nickel-copper	—	7,114	—	—	—	—	253,057	5,397,211	—
13		\$'000	—	105	—	—	—	88	756	—
14	Iron	195	1,111	—	2	—	3,260	1,582,756	101,594,909	579
15		\$'000	4	14	—	—	34	543	11,148	14
16	Miscellaneous metals	—	34,563	—	20	—	—	305,533	6,662,694	—
17		\$'000	—	523	—	1	—	100	1,267	—
18	Totals	7,185	52,240	—	89	168	3,296	3,802,383	136,723,205	2,002
		\$'000	152	807	—	2	4	35	1,393	43
19	Non-metal mining:									
20	Asbestos	4,371	—	—	—	—	—	608,415	29,267,488	4,569
21		\$'000	69	—	—	—	—	215	4,809	69
22	Feldspar, quartz, nepheline syenite	—	—	—	—	—	—	73,562	1,349,080	—
23		\$'000	—	—	—	—	—	28	176	—
24	Gypsum	—	—	—	—	—	—	47,408	1,166,680	—
25		\$'000	—	—	—	—	—	17	183	—
26	Peat	—	—	—	—	—	—	257,217	269,843	187
27		\$'000	—	—	—	—	—	83	46	2
28	Salt	9,408	14,134	—	—	—	—	25,008	6,886,344	—
29		\$'000	79	153	—	—	—	7	579	—
30	Talc, soapstone	2	—	—	—	—	—	18,478	42,139	39
31		\$'000	—	—	—	—	—	6	8	—
32	Miscellaneous	6	—	—	—	18,995	—	267,415	8,268,287	—
33		\$'000	—	—	—	70	—	99	765	—
34	Totals	13,787	14,134	—	—	18,995	—	1,297,503	47,249,861	4,795
		\$'000	148	153	—	70	—	455	6,567	71
35	Mineral fuels:									
36	Coal	—	—	—	—	—	195	798,139	2,252,535	1,826
37		\$'000	—	—	—	—	4	266	394	39
38	Petroleum, natural gas	—	—	—	—	—	—	—	—	—
39		\$'000	—	—	—	—	195	798,139	2,252,535	1,826
40	Totals	—	—	—	—	—	4	266	394	39
41	Structural materials:									
42	Sand and gravel	—	—	—	—	—	9	4,786,516	4,985,466	20
43		\$'000	—	—	—	—	—	1,630	880	—
44	Stone	812	34,129	—	—	—	1	2,378,799	5,915,584	54
45		\$'000	15	409	—	—	—	854	1,334	1
46	Totals	812	34,129	—	—	—	10	7,165,315	10,901,050	74
		\$'000	15	409	—	—	—	2,484	2,214	1
47	Totals, mineral industries	21,784	100,503	—	89	19,163	3,501	13,063,340	197,126,651	8,697
48		\$'000	314	1,368	—	2	74	40	4,598	153

TABLE 32 A. Fuel and Electricity Used in the Selected Manufacturing Industries Related to Mining, by Kinds and by Industries, 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

No.	Industry	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Fuel oil and kerosene	Wood
		Canadian	Imported							
		tons						Imp. gal.		cords
1	Smelting and refining	489,808	208,459	10	159,469	—	225,754	1,355,159	95,472,005	298
2		\$'000	6,394	2,710	—	2,565	—	5,401	389	5
3	Clay products	6,925	42,850	—	160	—	18	911,602	8,552,924	5,047
4		\$'000	91	636	—	2	—	296	863	40
5	Cement	367,376	580,511	—	429	—	—	223,548	53,815,224	—
6		\$'000	3,642	6,081	—	7	—	76	3,984	—
7	Lime	318	90,384	—	—	10,326	—	191,015	7,153,870	5,072
8		\$'000	5	1,235	—	—	68	53	597	42
9	Totals	864,427	922,204	10	160,058	10,326	225,772	2,681,324	164,994,023	10,417
10		\$'000	10,133	10,662	—	2,575	68	814	16,840	87

TABLE 31 A. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and by Industries, 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

Gas			Other fuel	Small establishments not reporting commodity detail	Electricity purchased	Steam purchased	Total	Electricity generated		No.
Liquefied petroleum	Manufactured	Natural						For own use	For sale	
Imp. gal.	Mcf.		\$'000		kwh.	pounds	\$'000	kwh.		
—	—	—	—	...	—	—	...	9,764,794	7,629,606	1
—	—	—	—	51	—	—	93	..	..	2
32,692	..	201,719	...	...	737,041,234	—	...	37,225,031	1,575,908	3
10	10	120	53	...	5,031	—	6,348	..	..	4
774,006	..	62,268	...	...	1,138,271,545	78,752,010	...	103,968,655	1,109,270	5
118	8	38	56	...	6,916	64	9,535	..	..	6
846	—	—	...	...	17,723,245	—	...	..	..	7
—	—	—	44	...	164	—	272	..	..	8
42,303	—	206,319	...	...	566,219,508	—	...	32,244,534	234,748	9
12	—	82	74	...	4,051	—	5,905	..	..	10
9,740	..	515,121	...	...	667,146,348	—	...	65,767,230	6,349,620	11
5	3	245	...	...	3,577	—	4,781	..	..	12
1,390,532	—	1,764,596	—	...	2,060,889,627	—	...	60,605,663	62,248,897	13
392	—	839	—	...	13,269	—	26,256	..	..	14
38,505	—	—	...	...	323,542,613	—	...	80,596,987	4,080,700	15
16	—	—	2	...	2,239	—	4,147	..	..	16
2,288,624	..	2,750,023	...	...	5,510,834,120	78,752,010	...	390,172,894	83,228,749	17
554	21	1,324	229	51	35,248	64	57,337	..	..	18
95,055	—	—	—	...	538,379,731	—	...	19,521,883	—	19
31	—	—	—	...	3,813	—	9,005	..	..	20
4,966	—	13,000	—	...	25,944,279	—	...	..	..	21
1	—	5	—	...	230	—	441	..	..	22
340	—	170	—	...	10,303,655	—	...	..	..	23
—	—	—	—	...	190	—	390	..	..	24
64,560	—	145,369	—	...	4,758,567	—	...	..	..	25
14	—	65	—	69	89	—	368	..	..	26
6,050	—	1,007,092	—	...	40,772,876	—	...	10,473,050	2,845,000	27
2	—	126	—	...	371	—	1,316	..	..	28
100	—	—	—	...	2,256,200	—	...	..	..	29
—	—	—	—	...	40	—	54	..	..	30
32,271	—	9,477,794	—	...	237,725,350	—	...	87,599,308	90,312	31
5	—	2,531	—	...	1,804	—	5,274	..	..	32
203,342	—	10,643,425	—	...	860,140,658	—	...	117,594,241	2,935,312	33
54	—	2,727	—	69	6,535	—	16,849	..	..	34
44,212	..	—	...	...	204,869,605	—	...	..	..	35
5	..	—	12	...	2,846	—	3,566	..	..	36
—	—	—	—	...	750,304,868	—	...	36,723,000	..	37
—	—	—	—	...	12,952	—	12,952	..	..	38
44,212	..	—	...	...	955,174,473	—	...	36,723,000	..	39
5	..	—	12	...	15,798	—	16,518	..	..	40
30,228	..	2,233	—	...	28,384,198	—	...	..	..	41
6	7	1	—	484	607	—	3,615	..	..	42
18,857	—	48,919	...	...	133,625,683	—	...	1,911,000	..	43
6	—	24	—	182	1,725	—	4,549	..	..	44
49,085	..	51,152	...	...	162,009,881	—	...	1,911,000	..	45
12	7	24	..	666	2,332	—	8,164	..	..	46
2,585,263	..	13,444,600	...	...	7,488,159,132	78,752,010	...	546,401,135	86,164,061	47
624	29	4,076	241	786	59,913	64	98,867	..	..	48

Table 32 A. Fuel and Electricity Used in the Selected Manufacturing Industries Related to Mining, by Kinds and by Industries, 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

Gas			Other fuel	Small establishments not reporting commodity detail	Electricity purchased	Steam purchased	Total	Electricity generated		No.
Liquefied petroleum	Manufactured	Natural						For own use	For sale	
Imp. gal.	Mcf.		\$'000		kwh.	pounds	\$'000	kwh.		
3,645,057	..	15,921,562	...	...	7,679,830,870	135,231,500	...	15,469,327,586	3,853,733,614	1
423	2	6,044	16	...	27,346	138	62,829	..	..	2
108,560	—	6,076,859	—	...	91,053,982	—	...	95,000	..	3
24	—	2,908	—	...	1,027	—	5,888	..	..	4
47,847	—	15,386,133	—	...	1,111,525,900	—	...	..	..	5
11	—	4,203	—	...	6,847	—	24,851	..	..	6
4,473	—	901,669	—	...	38,160,833	—	...	..	..	7
1	—	441	—	...	340	—	2,782	..	..	8
3,805,937	..	38,286,223	...	...	8,920,571,585	135,231,500	...	15,469,422,586	3,853,733,614	9
458	2	13,596	16	...	35,560	138	96,349	..	..	10

TABLE 31B. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and by Industries, 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

No.	Industry	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Fuel oil and kerosene	Wood
		Canadian	Imported							
		tons						Imp. gal.		cords
1	Metal mining:									
2	Placer gold	—	—	—	—	—	—	—	—	—
3	Gold-quartz	\$'000	11	6,327	—	24	—	278,808	3,694,629	859
4	Copper-gold-silver	\$'000	653	625	—	49	—	1,110,511	16,330,756	14
5	Silver-cobalt	\$'000	12	12	—	1	—	395	3,020	—
6	Silver-lead-zinc	\$'000	212	68	—	—	—	34,877	181,908	—
7	Nickel-copper	\$'000	6	2	—	—	—	17	40	—
8	Iron	\$'000	3,588	1,932	—	193	—	441,453	8,040,473	—
9	Miscellaneous	\$'000	71	35	—	4	—	159	1,374	—
10	Iron	\$'000	—	5,612	—	—	—	283,659	4,324,140	—
11	Miscellaneous	\$'000	—	91	—	—	—	103	670	—
12	Iron	\$'000	—	1,098	—	1	—	1,687,734	122,454,031	609
13	Miscellaneous	\$'000	—	16	—	—	34	600	13,361	15
14	Miscellaneous	\$'000	—	38,568	—	24	7	320,669	5,990,070	80
15	Miscellaneous	\$'000	—	616	—	2	—	119	1,099	2
16	Totals		4,464	54,230	—	98	200	4,157,711	161,016,007	1,548
17	Totals	\$'000	90	876	—	4	4	1,512	20,345	31
18	Non-metal mining:									
19	Asbestos	\$'000	4,535	—	—	—	—	698,700	31,152,449	3,958
20	Feldspar, quartz, nepheline syenite	\$'000	73	—	—	—	—	255	5,247	75
21	Gypsum	\$'000	—	—	—	—	—	101,508	1,484,271	—
22	Peat	\$'000	—	—	—	—	—	38	191	—
23	Salt	\$'000	—	—	—	—	—	43,834	1,011,832	—
24	Talc, soapstone	\$'000	—	—	—	—	—	16	168	—
25	Miscellaneous	\$'000	—	—	—	—	—	384,041	214,599	263
26	Miscellaneous	\$'000	—	—	—	—	—	123	50	2
27	Salt	\$'000	9,530	11,791	—	—	—	30,256	7,233,868	—
28	Talc, soapstone	\$'000	87	134	—	—	—	9	598	—
29	Miscellaneous	\$'000	2	—	—	—	—	21,762	47,949	—
30	Miscellaneous	\$'000	—	—	—	—	—	6	10	—
31	Miscellaneous	\$'000	6	—	—	150	23,704	315,753	6,824,155	—
32	Miscellaneous	\$'000	—	—	—	3	88	110	664	—
33	Totals	\$'000	14,073	11,791	—	150	24,204	1,595,854	47,969,123	4,221
34	Totals	\$'000	160	134	—	3	89	557	6,929	78
35	Mineral fuels:									
36	Coal	\$'000	—	—	—	—	168	914,017	2,003,485	1,819
37	Petroleum, natural gas	\$'000	—	—	—	—	4	290	334	44
38	Petroleum, natural gas	\$'000	—	—	—	—	—	—	—	—
39	Totals	\$'000	—	—	—	—	168	914,017	2,003,485	1,819
40	Totals	\$'000	—	—	—	—	4	290	334	44
41	Structural materials:									
42	Sand and gravel	\$'000	—	—	—	—	11	4,435,115	4,436,921	—
43	Stone	\$'000	358	26,843	—	1	—	1,561	806	—
44	Stone	\$'000	4	329	—	—	86	2,381,949	6,211,355	105
45	Totals	\$'000	358	26,843	—	1	97	6,817,064	10,648,276	105
46	Totals	\$'000	4	329	—	—	2	2,433	1,967	1
47	Totals, mineral industries	\$'000	18,895	92,864	—	249	24,404	13,484,646	221,636,891	7,693
48	Totals, mineral industries	\$'000	253	1,338	—	7	93	4,791	29,575	153

TABLE 32B. Fuel and Electricity Used in the Selected Manufacturing Industries Related to Mining, by Kinds and by Industries, 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

No.	Industry	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Fuel oil and kerosene	Wood
		Canadian	Imported							
		tons						Imp. gal.		cords
1	Smelting and refining	\$'000	565,832	167,216	16	161,052	—	261,749	1,253,683	108,082,693
2	Clay products	\$'000	7,464	2,197	—	2,893	—	6,467	351	8,802
3	Cement	\$'000	6,579	41,224	—	—	—	—	819,097	7,758,309
4	Lime	\$'000	85	654	—	—	—	—	303	769
5	Lime	\$'000	211,461	481,997	3	—	—	—	241,225	47,942,802
6	Lime	\$'000	2,039	5,322	—	—	8	—	79	3,921
7	Lime	\$'000	322	83,120	—	—	8,644	—	201,660	6,766,658
8	Lime	\$'000	6	1,148	—	—	52	—	54	568
9	Totals	\$'000	784,194	773,557	19	161,052	9,125	261,749	2,515,665	170,550,462
10	Totals	\$'000	9,593	9,322	—	2,893	60	6,467	788	14,059

TABLE 31 B. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and by Industries, 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Gas			Other fuel	Small establishments not reporting commodity detail	Electricity purchased	Steam purchased	Total	Electricity generated		No.
Liquefied petroleum	Manu- factured	Natural						For own use	For sale	
Imp. gal.	Mcf.		\$'000		kwh.	pounds	\$'000	kwh.		
—	—	—	—	—	—	—	—	—	—	1
—	—	—	—	24	—	—	24	—	—	2
32,026	—	200,241	—	—	725,446,003	—	—	33,525,020	849,120	3
9	—	117	84	—	4,724	—	5,954	—	—	4
1,104,989	—	652,916	—	—	1,285,054,497	44,297,700	—	158,075,408	1,335,700	5
170	12	360	35	—	8,410	35	12,463	—	—	6
900	—	—	—	—	18,691,777	—	—	—	—	7
—	—	—	28	—	172	—	264	—	—	8
34,302	—	255,015	—	—	605,560,691	—	—	24,141,653	219,556	9
10	—	96	51	—	4,280	—	6,080	—	—	10
13,752	—	589,915	—	—	868,611,903	—	—	63,999,980	6,946,980	11
6	—	269	—	—	4,206	—	5,345	—	—	12
76,145	—	4,298,379	—	—	2,417,739,894	—	—	62,187,357	75,811,204	13
23	—	1,887	—	—	14,008	—	29,944	—	—	14
78,231	—	—	—	—	379,058,475	2,600,000	—	77,674,629	5,016,389	15
24	—	—	2	—	2,542	3	4,410	—	—	16
1,340,345	—	5,996,466	—	—	6,300,163,240	46,897,700	—	419,604,047	90,178,949	17
242	12	2,730	200	24	38,342	38	64,483	—	—	18
181,502	—	—	—	—	550,731,916	—	—	25,395,750	—	19
66	—	—	—	—	3,822	—	9,538	—	—	20
5,214	—	12,450	—	—	25,829,556	—	—	—	—	21
1	—	6	—	—	249	—	485	—	—	22
2,200	—	—	—	—	10,305,607	—	—	—	—	23
1	—	—	—	—	196	—	381	—	—	24
76,947	—	167,800	—	—	5,372,700	—	—	—	—	25
17	—	75	—	34	109	—	412	—	—	26
6,170	—	1,118,924	—	—	43,998,555	—	—	14,542,840	—	27
3	—	133	—	—	406	—	1,369	—	—	28
200	—	—	—	—	2,314,865	—	—	—	—	29
—	—	—	—	—	41	—	57	—	—	30
15,012	—	12,092,473	—	—	345,588,386	—	—	109,070,399	118,501	31
2	—	3,153	—	—	2,429	—	6,449	—	—	32
287,245	—	13,391,647	—	—	984,141,585	—	—	149,008,989	118,501	33
90	—	3,366	—	34	7,251	—	18,691	—	—	34
50,907	—	—	—	—	191,319,402	—	—	—	—	35
6	—	—	13	—	2,673	—	3,363	—	—	36
—	—	—	—	—	797,207,691	—	—	—	—	37
—	—	—	—	—	13,453	—	13,453	—	—	38
50,907	—	—	—	—	988,527,093	—	—	—	—	39
6	—	—	13	—	16,126	—	16,816	—	—	40
44,124	—	2,431	—	—	25,743,485	—	—	1,032	—	41
14	—	1	—	363	589	—	3,334	—	—	42
10,895	—	42,231	—	—	118,031,268	—	—	2,040,000	—	43
4	—	20	—	151	1,697	—	4,239	—	—	44
55,019	—	44,662	—	—	143,774,753	—	—	2,041,032	—	45
18	—	21	—	514	2,286	—	7,574	—	—	46
1,733,516	—	19,432,775	—	—	8,416,606,671	46,897,700	—	570,654,068	90,297,450	47
356	—	6,116	213	571	64,005	38	107,563	—	—	48

TABLE 32 B. Fuel and Electricity Used in the Selected Manufacturing Industries Related to Mining, by Kinds and by Industries, 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Gas			Other fuel	Small establishments not reporting commodity detail	Electricity purchased	Steam purchased	Total	Electricity generated		No.
Liquefied petroleum	Manu- factured	Natural						For own use	For sale	
Imp. gal.	Mcf.		\$'000		kwh.	pounds	\$'000	kwh.		
4,283,779	—	18,410,455	—	—	8,141,936,850	—	—	15,974,243,398	3,596,336,214	1
486	—	6,829	14	—	29,632	—	65,137	—	—	2
114,277	—	5,641,636	—	—	88,952,017	—	—	210,000	—	3
24	—	2,853	—	1	1,016	—	5,737	—	—	4
42,224	—	14,883,917	—	—	1,000,215,025	—	—	—	—	5
9	—	4,065	—	—	6,447	—	21,889	—	—	6
4,644	—	836,982	—	—	36,849,398	—	—	—	—	7
1	—	409	—	—	339	—	2,612	—	—	8
4,441,924	—	39,772,990	—	—	9,267,953,290	—	—	15,974,453,398	3,596,336,214	9
520	—	14,155	14	1	37,434	—	95,375	—	—	10

TABLE 33 A. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and by Provinces,¹ 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

No.	Province	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Fuel oil and kerosene	Wood
		Canadian	Imported							
		tons						Imp. gal.		cords
1	Newfoundland	1,466	—	—	—	—	—	935,910	84,423,820	—
2		\$'000	35	—	—	—	—	391	8,573	—
3	Prince Edward Island	—	—	—	—	—	—	—	—	—
4		\$'000	—	—	—	—	—	—	—	—
5	Nova Scotia	9,558	—	—	—	—	195	316,352	4,674,292	1,823
6		\$'000	82	—	—	—	4	114	487	39
7	New Brunswick	8	—	—	—	—	—	569,071	3,028,486	—
8		\$'000	--	—	—	—	—	211	460	—
9	Quebec	5,281	3,000	—	20	—	3	3,365,470	55,356,830	296
10		\$'000	85	50	1	—	--	1,197	8,419	3
11	Ontario	100	97,503	—	41	9	3,261	4,603,440	25,377,190	645
12		\$'000	3	1,318	1	--	34	1,570	3,610	14
13	Manitoba	—	—	—	28	—	41	810,859	3,940,195	650
14		\$'000	—	—	--	—	1	300	519	11
15	Saskatchewan	—	—	—	—	18,995	—	566,137	3,672,176	—
16		\$'000	—	—	—	70	—	187	705	—
17	Alberta	—	—	—	—	—	—	841,725	1,099,348	—
18		\$'000	—	—	—	—	—	267	226	—
19	British Columbia	196	—	—	—	159	1	829,664	11,860,411	4,653
20		\$'000	5	—	—	3	--	260	2,518	70
21	Yukon, Northwest Territories and Arctic Islands	5,175	—	—	—	—	—	224,712	3,693,903	630
22		\$'000	104	—	—	—	—	100	1,067	16
23	Totals	21,784	100,503	—	89	19,163	3,501	13,063,340	197,126,651	8,697
24		\$'000	314	1,368	—	2	74	4,598	26,585	153

* Excludes cost of fuel used in the Crude Petroleum and Natural Gas Industry.

TABLE 34 A. Fuel and Electricity Used in the Selected Manufacturing Industries Related to Mining, by Kinds and by Provinces, 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

No.	Province	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Fuel oil and kerosene	Wood
		Canadian	Imported							
		tons						Imp. gal.		cords
1	Newfoundland	—	—	—	—	—	—	4,513	922,042	—
2		\$'000	—	—	—	—	—	2	111	—
3	Prince Edward Island	—	—	—	—	—	—	—	—	—
4		\$'000	—	—	—	—	—	—	—	—
5	Nova Scotia	32,770	—	—	—	—	—	16,852	2,168,029	—
6		\$'000	337	—	—	—	—	5	174	—
7	New Brunswick	52,537	—	—	—	—	—	18,920	770,376	2,578
8		\$'000	579	—	—	—	—	7	118	24
9	Quebec	443,530	8,822	—	159,629	—	175	777,016	110,525,911	1,576
10		\$'000	4,965	163	2,567	—	5	225	11,780	13
11	Ontario	120,839	909,324	—	—	—	167,889	1,071,081	27,878,470	3,984
12		\$'000	1,542	10,418	—	—	4,172	343	2,455	31
13	Manitoba	29,154	4,058	—	429	10,326	—	96,097	5,147,457	1,956
14		\$'000	427	80	7	68	—	37	662	14
15	Saskatchewan	103,365	—	—	—	—	—	31,187	1,325,975	143
16		\$'000	1,512	—	—	—	—	10	148	2
17	Alberta	—	—	10	—	—	—	151,615	234,062	—
18		\$'000	—	--	—	—	—	35	39	—
19	British Columbia	82,232	—	—	—	—	57,708	514,043	16,021,701	180
20		\$'000	771	—	—	—	1,225	148	1,353	3
21	Yukon	—	—	—	—	—	—	—	—	—
22		\$'000	—	—	—	—	—	—	—	—
23	Northwest Territories	—	—	—	—	—	—	—	—	—
24		\$'000	—	—	—	—	—	—	—	—
25	Totals	864,427	922,204	10	160,058	10,326	225,772	2,681,324	164,994,023	10,417
26		\$'000	10,133	10,662	--	2,575	68	814	16,840	87

TABLE 33 A. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and by Provinces,¹ 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

Gas			Other fuel	Small establishments not reporting commodity detail	Electricity purchased	Steam purchased	Total	Electricity generated		No.
Liquefied petroleum	Manu- factured	Natural						For own use	For sale	
Imp. gal.	Mcf.		\$'000		kwh.	pounds	\$'000	kwh.		
15,764	--	--	--	...	1,375,932,944	78,752,010	...	71,212,611	62,178,609	1
6	--	--	--	...	10,109	64	19,179	..	..	2
--	--	--	--	...	--	--	x ...	--	--	3
--	--	--	--	x	--	--	--	--	--	4
2,303	--	--	--	...	152,667,732	--	...	4,187,000	1,300,000	5
1	--	--	--	16	2,136	--	2,879	..	..	6
4,970	--	--	--	...	174,732,811	--	...	--	--	7
1	--	--	--	7	1,808	--	2,487	--	--	8
78,692	..	38,189	..	...	1,818,186,168	--	...	35,497,114	2,450,368	9
24	17	18	66	316	12,854	--	23,050	..	..	10
1,458,515	..	2,575,940	..	...	2,084,836,755	--	...	1,582,226	--	11
418	11	1,273	89	261	12,604	--	21,208	..	..	12
602,100	--	16,926	..	...	168,047,721	--	...	56,985,000	3,952,000	13
90	--	8	--	33	910	--	1,872	..	..	14
40,420	--	9,918,624	--	...	590,743,972	--	...	189,933,790	5,445,000	15
6	--	2,598	--	39	6,976	--	10,581	..	..	16
58,632	..	511,795	..	...	472,913,559	--	...	39,902,150	--	17
7	--	11	12	27	7,827	--	8,378	..	..	18
309,039	--	383,126	--	...	521,183,609	--	...	94,137,801	2,151,278	19
64	--	168	--	40	3,322	--	6,450	..	..	20
14,828	--	--	..	...	128,913,861	--	...	52,963,443	8,686,806	21
7	--	--	74	x	1,368	--	x ...	..	..	22
2,585,263	..	13,444,600	..	...	7,488,159,132	78,752,010	...	546,401,135	86,164,061	23
624	29	4,076	241	786	59,913	64	98,867	..	..	24

TABLE 34 A. Fuel and Electricity Used in the Selected Manufacturing Industries Related to Mining, by Kinds and by Provinces, 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

Gas			Other fuel	Small establishments not reporting commodity detail	Electricity purchased	Steam purchased	Total	Electricity generated		No.
Liquefied petroleum	Manu- factured	Natural						For own use	For sale	
Imp. gal.	Mcf.		\$'000		kwh.	pounds	\$'000	kwh.		
--	--	--	--	...	4,385,700	--	..	--	--	1
--	--	--	--	...	93	--	206	--	--	2
--	--	--	--	...	--	--	--	--	--	3
--	--	--	--	...	--	--	--	--	--	4
4,360	--	--	--	...	21,311,230	--	..	--	--	5
1	--	--	--	...	338	--	856	--	--	6
440	--	--	--	...	29,680,485	--	..	--	--	7
--	--	--	--	...	326	--	1,054	--	--	8
3,257,376	--	4,236,555	--	...	4,219,384,334	--	..	10,936,536,586	3,768,953,614	9
344	--	1,461	--	...	17,100	--	38,624	..	..	10
174,796	..	15,616,856	...	...	1,741,815,554	135,231,500	..	95,000	--	11
39	2	7,586	16	...	9,708	138	36,451	..	--	12
63,473	--	3,347,128	--	...	1,063,185,398	--	..	--	--	13
22	--	1,100	--	...	4,528	--	6,945	--	--	14
--	--	1,582,352	--	...	157,953,656	--	..	--	--	15
--	--	432	--	...	496	--	2,600	--	--	16
4,190	--	10,519,245	--	...	219,037,926	--	..	40,142,000	--	17
1	--	1,797	--	...	1,279	--	3,151	..	--	18
301,302	--	2,984,087	--	...	1,463,817,302	--	..	4,492,649,000	84,780,000	19
51	--	1,220	--	...	1,692	--	6,464	..	..	20
--	--	--	--	...	--	--	--	--	--	21
--	--	--	--	...	--	--	--	--	--	22
--	--	--	--	...	--	--	--	--	--	23
--	--	--	--	...	--	--	--	--	--	24
3,805,937	..	38,286,223	...	...	8,920,571,585	135,231,500	..	15,469,422,586	3,853,733,614	25
458	2	13,596	16	...	35,560	138	96,349	..	..	26

TABLE 33 B. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and by Provinces,¹ 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

No.	Province	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Fuel oil and kerosene	Wood
		Canadian	Imported							
				tons				Imp. gal.		cords
1	Newfoundland	629	—	—	—	—	—	987,043	104,109,551	—
2	..... \$'000	17	—	—	—	—	—	414	10,508	—
3	Prince Edward Island	—	—	—	—	—	—	—	—	—
4	..... \$'000	—	—	—	—	—	—	—	—	—
5	Nova Scotia	9,619	—	—	—	—	168	233,829	4,456,381	1,816
6	..... \$'000	88	—	—	—	—	4	82	460	43
7	New Brunswick	10	—	—	—	—	—	645,606	3,130,510	4
8	..... \$'000	—	—	—	—	—	—	224	464	—
9	Quebec	5,208	3,032	—	174	7	—	3,585,912	55,609,463	458
10	..... \$'000	85	48	—	5	—	—	1,272	8,384	5
11	Ontario	212	89,832	—	25	—	3,297	4,673,973	25,993,354	812
12	..... \$'000	6	1,291	—	1	—	36	1,639	3,714	18
13	Manitoba	230	—	—	50	—	41	604,325	4,318,004	609
14	..... \$'000	2	—	—	1	—	1	235	604	10
15	Saskatchewan	4	—	—	—	23,704	—	558,716	3,304,295	—
16	..... \$'000	—	—	—	—	88	—	188	674	—
17	Alberta	—	—	—	—	500	—	856,986	927,321	—
18	..... \$'000	—	—	—	—	2	—	284	198	—
19	British Columbia	100	—	—	—	193	—	1,040,155	1,786,711	3,994
20	..... \$'000	3	—	—	—	4	—	342	3,147	76
21	Yukon, Northwest Territories, Arctic Islands, Off Shore.	2,883	—	—	—	—	—	298,101	5,001,301	—
	..... \$'000	53	—	—	—	—	—	112	1,421	—
23	Totals	18,895	92,864	—	249	24,404	3,506	13,484,646	221,636,891	7,693
24	..... \$'000	253	1,338	—	7	93	41	4,791	29,575	153

¹ Excludes cost of fuel used in the Crude Petroleum and Natural Gas Industry.

TABLE 34 B. Fuel and Electricity Used in the Selected Manufacturing Industries Related to Mining, by Kinds and by Provinces, 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

No.	Province	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Fuel oil and kerosene	Wood
		Canadian	Imported							
				tons				Imp. gal.		cords
1	Newfoundland	—	—	—	—	—	—	4,072	1,521,003	—
2	..... \$'000	—	—	—	—	—	—	2	168	—
3	Prince Edward Island	—	—	—	—	—	—	—	—	—
4	..... \$'000	—	—	—	—	—	—	—	—	—
5	Nova Scotia	37,790	—	—	—	—	—	11,770	2,048,519	—
6	..... \$'000	387	—	—	—	—	—	4	167	—
7	New Brunswick	34,363	—	—	—	—	—	53,092	5,433,272	2,218
8	..... \$'000	375	—	—	—	—	—	18	684	18
9	Quebec	300,873	9,699	—	161,052	—	19	610,609	113,573,724	1,243
10	..... \$'000	3,549	187	—	2,893	—	1	195	8,748	7
11	Ontario	199,742	760,564	—	—	—	202,301	978,967	24,608,020	3,364
12	..... \$'000	2,619	9,044	—	—	—	5,078	342	2,035	28
13	Manitoba	28,506	3,294	—	—	9,125	—	93,717	5,913,035	1,852
14	..... \$'000	420	91	—	—	60	—	36	718	13
15	Saskatchewan	101,067	—	—	—	—	—	27,328	1,657,239	136
16	..... \$'000	1,489	—	—	—	—	—	11	175	2
17	Alberta	—	—	19	—	—	—	138,883	215,702	—
18	..... \$'000	—	—	—	—	—	—	32	38	—
19	British Columbia	81,853	—	—	—	—	59,429	597,227	15,579,948	116
20	..... \$'000	757	—	—	—	—	1,388	150	1,325	2
21	Yukon	—	—	—	—	—	—	—	—	—
22	..... \$'000	—	—	—	—	—	—	—	—	—
23	Northwest Territories	—	—	—	—	—	—	—	—	—
24	..... \$'000	—	—	—	—	—	—	—	—	—
25	Totals	784,194	773,557	19	161,052	9,125	261,749	2,515,665	170,550,402	8,929
26	..... \$'000	9,593	9,322	—	2,893	60	6,467	788	14,059	69

TABLE 33 B. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and by Provinces,¹ 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Gas			Other fuel	Small establishments not reporting commodity detail	Electricity purchased	Steam purchased	Total	Electricity generated		No.
Liquefied petroleum	Manufactured	Natural						For own use	For sale	
Imp. gal.	Mcf.		\$'000	kwh.	pounds	\$'000	kwh.			
15,354	—	—	—	...	1,623,374,576	44,297,700	..	61,877,173	75,485,605	1
5	—	—	—	5	10,676	35	21,661	..	..	2
—	—	—	—	—	—	—	—	—	—	3
—	—	—	—	—	—	—	—	—	—	4
2,890	—	—	—	...	145,695,018	—	..	5,431,520	—	5
1	—	—	—	21	2,002	—	2,702	...	—	6
5,761	—	—	—	...	206,566,802	—	..	—	—	7
2	—	—	—	13	2,018	—	2,722	—	—	8
114,275	—	57,983	..	...	1,788,478,571	—	..	32,625,014	2,522,936	9
37	—	25	55	230	13,246	—	23,392	..	..	10
281,671	..	5,761,356	..	...	2,457,537,014	2,600,000	..	1,499,482	—	11
78	12	2,654	95	178	13,969	3	23,692	..	..	12
670,756	—	17,409	—	...	224,604,175	—	..	55,124,300	4,448,600	13
98	—	9	—	18	1,077	—	2,055	..	..	14
25,565	—	12,552,547	—	...	688,373,092	—	..	222,275,700	4,793,000	15
3	—	3,222	—	13	7,662	—	11,850	..	..	16
62,923	—	592,754	..	...	514,284,455	—	..	3,829,920	—	17
7	—	14	13	16	8,214	—	8,747	..	..	18
521,425	..	450,726	—	...	603,364,404	—	..	146,051,320	1,974,800	19
106	..	193	—	56	3,633	—	7,560	..	..	20
32,896	—	—	..	...	164,328,564	—	..	41,939,639	1,072,509	21
17	—	—	50	23	1,508	—	3,184	..	..	22
1,733,516	..	19,432,775	..	...	8,416,606,671	46,897,700	..	570,654,068	90,297,450	23
356	12	6,116	213	571	64,005	38	107,563	..	..	24

TABLE 34 B. Fuel and Electricity Used in the Selected Manufacturing Industries Related to Mining, by Kinds and by Provinces, 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Gas			Other fuel	Small establishments not reporting commodity detail	Electricity purchased	Steam purchased	Total	Electricity generated		No.
Liquefied petroleum	Manufactured	Natural						For own use	For sale	
Imp. gal.	Mcf.		\$'000	kwh.	pounds	\$'000	kwh.			
—	—	—	—	—	16,928,000	—	..	—	—	1
—	—	—	—	—	130	—	301	—	—	2
—	—	—	—	—	—	—	—	—	—	3
—	—	—	—	—	—	—	—	—	—	4
—	—	—	—	—	33,512,520	—	..	—	—	5
—	—	—	—	—	329	—	886	—	—	6
230,268	—	—	—	—	75,546,290	—	..	—	—	7
36	—	—	—	—	708	—	1,838	—	—	8
3,768,202	—	3,763,830	—	—	4,427,637,221	—	..	11,081,651,398	3,463,892,214	9
381	—	1,370	—	...	17,865	—	35,195	..	..	10
163,720	—	16,899,883	..	...	1,872,661,952	—	..	210,000	—	11
38	—	8,237	14	1	10,136	—	37,570	..	..	12
46,944	—	2,560,162	—	—	1,056,837,803	—	..	—	—	13
24	—	810	—	—	4,746	—	6,917	—	—	14
—	—	1,515,153	—	—	158,834,196	—	..	—	—	15
—	—	413	—	—	478	—	2,567	—	—	16
4,595	—	11,749,313	—	—	226,384,168	—	..	—	—	17
1	—	1,997	—	—	1,329	—	3,397	—	—	18
231,195	—	3,284,649	—	—	1,399,611,140	—	..	4,892,592,000	132,444,000	19
40	—	1,328	—	—	1,713	—	6,703	..	..	20
—	—	—	—	—	—	—	—	—	—	21
—	—	—	—	—	—	—	—	—	—	22
—	—	—	—	—	—	—	—	—	—	23
—	—	—	—	—	—	—	—	—	—	24
4,444,924	—	39,772,990	..	...	9,267,953,290	—	..	15,974,453,398	3,596,336,214	25
520	—	14,155	14	1	37,434	—	95,375	..	..	26

APPENDIX

MINERAL STATISTICS

The publication of statistics on the mineral production of Canada was instituted by the Geological Survey of Canada as early as 1886. The Department of Mines carried on this compilation through the early part of the twentieth century. Subsequent to the transfer of this work, the Dominion Bureau of Statistics published the data for the year 1921 and the succeeding issues.

The construction of new metallurgical plants and the development of new types of ore have resulted in changes in methods of compilation over the period but in general the following principles have been followed.

For the non-metallic minerals such as asbestos, talc, barite, etc. and for the structural materials such as stone, portland cement, etc., the mine or quarry shipments are taken to represent production. Usually there is little difference between actual output and mine shipments and it is more convenient and more practical to measure the product at the latter point. Values are computed on the f.o.b. shipping point basis and they represent, therefore, the amounts actually received by the producers.

Production data for certain simple metallic ores such as chromite, iron ore, etc. are compiled in the same way, that is, mine shipments at f.o.b. values, but for some metals this is not practical and an attempt is made to measure output in terms of recoverable metals which are then valued at current market prices. The principal metal mining companies in Canada also operate smelters at or close to the mine site and they do not usually value the ores at the mine head or at the concentrator; if they do it is only at nominal values for accounting purposes and not representative of actual market values. For these operations, which account for a very large percentage of the total production of the country, the smelter is the

first point at which it is practical to assign a value to production. Furthermore it is the more accurate point at which to measure actual recoveries according to province or origin. The operators which ship customs ores to smelters do not always know what the recoveries will be as this depends on smelter practice. The amount paid for customs ore is the result of bargaining between the smelter and the mine operator and the smelter may in fact, by means of blending certain ores or by more efficient methods recover more metal than it actually paid for, or by treating large tonnages of ores it may recover minor metals which were not paid for at all. Most of Canada's metallic ores are quite complex, usually containing several metals.

Of course, not all Canadian ores and concentrates are treated in home smelters. Large quantities of concentrates are exported to foreign smelters. The recoverable metals in such concentrates are estimated by making certain deductions (as determined by usual smelter practice) from the assayed contents to allow for losses in smelting. Similarly certain adjustments are made in arriving at quantities and values of unfinished smelter products. Metals recovered in Canadian smelters from the treatment of foreign ores are not included in the commodity figures.

The value for metals production calculated in this manner does not coincide with the amounts actually received by the producers. An entirely separate compilation is made on an industry basis which represents very closely the actual return to the metal mining industry.

Note: Monthly production figures (quantities only) are available for all metals and for most of the non-metals.

DETAILS OF THE METHODS USED IN COMPUTING THE MINERAL PRODUCTION OF CANADA

METALLIC MINERAL PRODUCTION

Aluminum — Canada does not produce aluminum ores but smelters are operated at Arvida, Isle Maligne, Shawinigan, and Beauharnois in Quebec and Kitimat, British Columbia by the Aluminum Company of Canada. The Canadian British Aluminum Co. Ltd., operates a smelter at Baie Comeau, Quebec. Bauxite or alumina for these smelters is imported from South America and Jamaica. Smelter operations are included in statistics for the Smelting and Refining Industry, that is, the figures are included in the industry statistics. However, data on aluminum production are not included in the com-

modity compilation on the Mineral Production of Canada.

Antimony — At the Trail smelter of the Consolidated Mining and Smelting Co. of Canada, antimony is recovered in the form antimonial lead and in flue dust, and slags. The antimony content of these products is considered as the production of antimony. Antimony in antimonial lead is valued at the average New York price for antimony metal. Antimony in flue dust and slags is valued at an arbitrary price.

METALLIC MINERAL PRODUCTION -- Continued

Bismuth -- No Canadian ores are mined for bismuth only. Bismuth occurs in the silver-lead-zinc ore at Kimberley, British Columbia, in the silver-cobalt ores which are shipped to Cobalt Refinery Ltd., in molybdenite ores of the Molybdenite Corporation at Lacorne, Quebec, and in the copper-gold-silver ores at Gaspe, Quebec.

Production is calculated as follows:

(a) Bismuth metal produced at Canadian smelters, value as reported by producer.

(b) Bismuth content of silver-lead-bismuth bullion shipped to smelters, Canadian or foreign, value as reported by firm.

(c) Bismuth content of impure metal shipped, value as reported by firm.

Cadmium -- Cadmium is associated with zinc. It is recovered in the refining of zinc by Cominco Ltd. at Trail, British Columbia, by the Hudson Bay Mining and Smelting Co. Limited at Flin Flon, Manitoba, and by East Coast Smelting and Chemical Co. Ltd. at Belledune, N.B.

Production consist of cadmium metal recovered at these smelters and the recoverable content of cadmium in the zinc-lead concentrates exported, valued at the average New York price for the year.

Calcium -- The only producer is the Dominion Magnesium Limited at Haley, Ontario. Output figures represent calcium metal, plus calcium content of alloys, value is that reported by the firm.

Chromite -- Production in Canada has been small, consisting usually of a few hundred tons in the Province of Quebec. Output figures represent the quantity and value of ores shipped as reported by producers.

Ferro-chrome is produced in Canada in substantial quantities, but since it is made from imported ores it is not counted as part of the mineral production of the country.

Cobalt -- Production includes:

(a) Cobalt metal produced at Canadian smelters, plus the Cobalt content of salts and oxides made at these smelters. Recoveries from imported concentrates are excluded. The value is the total sales value of these products as reported by the smelters.

(b) Cobalt content of ores and concentrates shipped for export at the gross value received by shippers. For exported concentrates the producer is paid for the cobalt content only.

Columbium -- Production includes:

(a) Columbium pentoxide (Cb_2O_5) contained in concentrates shipped by the producers with values as reported by the shipper.

(b) Columbium pentoxide (Cb_2O_5) equivalent of columbium contained in ferro-columbium shipped by the producers valued at the average pentoxide price.

Copper -- Production includes:

(a) Recoverable copper in ores and concentrates shipped for export valued at the average Montreal price for the year. Recoverable copper is computed as total copper content, less ten pounds of copper per ton of concentrates as an allowance for smelter losses.

(b) Copper content of blister copper made at Canadian smelters, valued at the average Montreal price for the year.

(c) Copper content of nickel-copper matte shipped for export by Canadian smelters, valued at an arbitrary price agreed upon by the Ontario Department of Mines and the Dominion Bureau of Statistics. This price is usually about three cents under the Canadian price for the metal and represents as close an approximation as possible to a fair value for the copper in the matte after allowing a margin for treatment of this matte in refineries outside Canada. No allowance is made in this instance for losses in treatment of the matte, as practically all of the copper is recovered.

Since all of the blister copper is now treated in Canadian refineries, it might be considered more convenient to use the figures on production of refined metal rather than the content of blister copper. However, the inclusion of secondary copper (made from scrap) in the refinery figures complicates the situation, and, at any rate, it is more satisfactory to use the smelter figures in making the allocation of production on a provincial basis.

Gold -- Production includes:

(a) Gold in crude bullion obtained direct from placer workings.

(b) Gold in crude bullion obtained direct from lode gold mines.

(c) Gold in blister copper made at copper smelters.

(d) Gold in base bullion made by Cominco Limited, at Trail, British Columbia.

(e) Gold in all types of ores shipped for export.

(f) Gold in nickel-copper matte shipped for export.

(g) Gold in platinum-palladium concentrates shipped for export.

Gold production is valued at the average price set by the United States Treasury, transposed to Canadian funds.

Indium -- Small quantities are recovered by Cominco Limited, Trail, British Columbia, in the smelt-

METALLIC MINERAL PRODUCTION – Continued

ing of lead-zinc-silver ores. The output is valued by the shipper. No data on indium are published and the figures are excluded from the Mineral Production of Canada.

Iron Ore – Production figures represent mine shipments at the values shown by the shippers.

Iron (Remelt) – This is sometimes called pig iron or Sorel iron. It is a co-product in the smelting of ilmenite ores by the Quebec Iron and Titanium Corporation at Sorel, Quebec.

Quantity and value figures are those reported by the producer.

Lead – Production includes:

(a) Lead in base bullion made by Cominco Limited, at Trail, British Columbia, from ores originating in British Columbia.

Refined lead is produced at Trail, but, from time to time, imported ores and concentrates are treated at this smelter, and it has been found advantageous to calculate the lead at the base bullion stage, since it is easier at this stage to estimate the amount that should be credited to imported ores.

(b) Recoverable lead in ores and concentrates shipped for export or shipped to domestic smelters by companies other than those referred to in (a) above. Recoverable lead is computed as total lead content, less two per cent of content as an allowance for smelter losses.

The value is computed at the average Montreal price for the year.

Magnesium – The Dominion Magnesium Company, Limited, Haley, Ontario, is the only Canadian producer. Output figures represent magnesium metal, plus magnesium content of alloys, values are those shown by the shipper.

Manganese – Production in Canada has been small and spasmodic because of the limited number of known deposits. Output figures represent the tonnage of ore shipped at the value received by the shippers.

Large tonnages of ferro-manganese alloys are made in Canada, but since imported ores are used, this output is not included in the mineral production of the country.

Molybdenum – Production figures are molybdenum content of the oxides ferro-molybdenum and sulphides shipped, value is that shown by the shipper.

Mercury – There has been little production in Canada since 1944. Production figures for past years

represent actual output valued at the prevailing market price, that is, at the average New York price for the year, in Canadian funds.

Nickel – Production includes:

(a) Refined and electrolytic nickel produced at Canadian refineries, valued at the average price obtained for such products sold during the year.

(b) Nickel in nickel oxides and in nickel salts sold from Canadian smelters and refineries during the year at the total selling value of these products.

(c) Nickel in matte shipped for export from Canada valued at an arbitrary figure agreed upon by the Ontario Department of Mines and the Dominion Bureau of Statistics. This price is a few cents under the Canadian price for the metal and represents as close an approximation as possible to a fair value of nickel in the matte form after allowing a margin for treatment of this matte in refineries outside Canada.

(d) Recoverable nickel in concentrates shipped from other provinces to smelters in Ontario or refinery in Alberta valued at an arbitrary price.

Platinum group metals – Production includes:

(a) Recoverable metals in smelter and refinery products shipped for export.

(b) Platinum recovered from placer workings.

Beginning with 1946, the platinum metals production is the assay content of concentrates and refinery residues shipped for export, plus the platinum group metal content of the matte shipped for export. Quantities as reported are valued at average New York price.

Selenium and tellurium – Selenium and tellurium are produced as by-products at the Canadian Copper Refiners, Montreal East, Quebec, and by the International Nickel Company of Canada, Ltd., at Copper Cliff, Ontario. The quantities as reported by the refining companies are valued at the average New York price for the year.

Silver – Production includes:

(a) Silver bullion produced from treatment of cobalt-silver ores by the Cobalt Refinery Division of Kam-Kotia Mines Ltd.

(b) Silver in base bullion made by Cominco Limited, Trail, British Columbia.

(c) Recoverable silver in ores and concentrates shipped for export.

(d) Silver in crude gold bullion produced.

(e) Silver in blister copper made at Canadian smelters.

METALLIC MINERAL PRODUCTION - Concluded

Total silver, as computed from above, is valued at the average of Montreal quotations for the year.

Thorium - At Elliot Lake, Ontario, the by-products of the uranium plant are treated to produce thorium salts. Production is considered as the thorium content of the salts shipped at a value reported by the producer. No data on thorium are published and the figures are excluded from the Mineral Production of Canada.

Tin - Canada has no commercial tin deposits. A small tonnage is recovered as a by-product by Cominco Limited, at Kimberley, British Columbia, from the treatment of the Sullivan lead-zinc-silver ore.

Titanium ore - Included in this item are the titanium ores exported for processing elsewhere. The value is that reported by the shipper. Ilmenite ore treated at the Sorel smelter is excluded, as the measurement is made of the smelter products, i.e., titanium dioxide, iron (remelt) and Sorelflux.

Tungsten ore - Production in Canada is very small. Output is computed in terms of WO_3 content of

tungsten concentrates shipped, valued by the shipper. No data on tungsten are published and the figures are excluded from the Mineral Production of Canada.

Uranium - Producers of uranium precipitates or concentrates report the U_3O_8 content of the shipments and the value received by the shipper.

Zinc - Production includes:

(a) Refined zinc made by Cominco Ltd., Trail, B.C., from ores originating in British Columbia.

(b) Refined zinc made by the Hudson Bay Mining and Smelting Co. Ltd. at Flin Flon, Manitoba, from their own or associated companies' ores.

(c) Recoverable zinc in ores shipped for export or shipped to domestic smelters in the case of companies other than those covered by (a) and (b) above. Recoverable zinc is computed as the total zinc content, less 160 pounds of zinc per ton of concentrates as an allowance for smelter losses.

The total zinc, computed as above, is valued at the average Montreal price for the year.

NON-METALLIC MINERAL PRODUCTION

Owing to the fact that it is difficult to obtain figures of actual production of non-metallic minerals in Canada, and since the first actual measurement is when the product is sold, the plant shipments have been taken to represent production in all cases.

Abrasives, natural - Includes corundum, garnets, grinding pebbles, grindstones, pulpstones and sharpening stone, diatomite and volcanic dust. Corundum, garnets and grinding pebbles have been produced in Canada in small quantities. Shipments of these materials represent the production, and the value is the amount received by the shippers, f.o.b. shipping points.

Arsenic - No Canadian ores are mined for arsenic only. White arsenic (As_2O_3) is recovered as a by-product in the treatment of silver-cobalt-nickel ores of the Cobalt district in Ontario at the smelter of Cobalt Refinery Division of Kam-Kotia Mines Ltd.

Production is computed as shipments of refined arsenic, plus any crude arsenic shipped for export at the f.o.b. plant values reported by the shippers.

Asbestos - Production figures represent shipments of the various grades at the total selling value, f.o.b. shipping points.

Barite - Production is the shipments at the selling value, f.o.b. shipping point.

Bituminous sands - Production is on an experimental scale only. Figures not included in production records.

Feldspar - Part of the crude feldspar is shipped for export, and part is shipped to Canadian grinding plants. Production includes the quantity shipped from the mine for export at its sales value, plus the quantity of ground feldspar shipped from the domestic grinding plants at its sales value, f.o.b. the mill.

Fluorspar - Production represents the quantity shipped from the quarries at its selling value, f.o.b. works.

Graphite - Production is quantity shipped from the mill at its selling value, f.o.b. the mill.

Gypsum - Production is taken as the tonnage of crude gypsum shipped from quarries or mines in the lump, crushed, or fine ground forms. The value is that reported by the operators.

Iron oxides (ochre) - Production is the tonnage of crude and treated (dried or calcined) ochres shipped by primary producers at the total selling value, f.o.b. works.

Lithia - Spodumine concentrates were produced in North-Western Quebec by the Quebec Lithium Cor-

NON-METALLIC MINERAL PRODUCTION – Concluded

poration. Production represents the lithia or lithium oxide content of the concentrates shipped and the value is that reported by the producer.

Magnestic-dolomite (magnesite) – Production is the tonnage of crude material sold by primary producers, plus the tonnage of calcined or dead-burned material sold or consumed by primary producers. The value is that reported by the producers.

Mica – Mine production in this industry comes largely from small operators (farmers) whose mining activities are only of a casual nature. Practically all of these operators sell their crude mica to domestic dressing works, and to prevent duplication, production is recorded as shipments from plants dressing new mica, plus any shipments for export direct from the mines. The value of shipments is taken as reported by operator.

Nepheline syenite – Production of crude and ground nepheline syenite is the amount of the various grades shipped at the total selling value, f.o.b. works.

Peat moss – Production is taken as the shipments at the sales value, f.o.b. works, less the value of containers.

Phosphate – Production represents shipments for sale of crude phosphate rock by mine operators, plus the tonnage of phosphate rock consumed by producer of the crude mineral in the manufacture of chemicals. The value is that reported by producers.

Potash – Production represents producers shipments from the plant and is measured as the K_2O equivalent. Value of shipments f.o.b. plant are reported by the producers.

Pozzolan – Values are those received by the shippers.

Pyrite, pyrrhotite – In the milling of sulphide ores by some base metal mines pyrite and pyrrhotite is produced as a by-product. Shipments and values of pyrite are reported by the producers. Pyrrhotite was valued by applying the average price of the sulphur content of pyrite in Eastern Canada. Calcined pyrrhotite is measured as by-products iron ore.

Pyrophyllite – Statistics for pyrophyllite are included with soapstone and talc. Quantity and value of crude or ground are reported f.o.b. shipping point by the producer.

Quartz – Production represents the tonnage of crude or pulverized quartz, quartzite, pure silica sand, or other natural silica material shipped for sale, plus the tonnage of any of these materials consumed by the producers. The value is taken as reported by producers.

Salt – Production is taken as the tonnage of various grades of dry salt shipped by primary producers, plus salt content of brine used by producers from industrial (chemical) purposes. The value is that reported by producers.

Soapstone – Production represents the tonnage of crude, ground or sawn soapstone shipped at the total selling value, f.o.b. shipping points.

Sodium sulphate – Production is the tonnage of crude or refined natural sodium sulphate shipped at its selling value, f.o.b. shipping points.

Sulphur, in smelter gas – In Ontario and British Columbia sulphur dioxide is recovered from the smelting of sulphide ores. The larger portion of the gas is used in making sulphuric acid. Production is the sulphur content of sulphuric acid made and sulphur dioxide marketed. Value is arbitrary.

Included in this item is the sulphur in the sulphuric acid made by roasting zinc sulphide concentrates at the acid plants of the Aluminum Company of Canada, Ltd., Arvida, Quebec and Sherbrooke Metallurgical Ltd., Dunnville, Ontario. This sulphur is valued at the average price for the sulphur contained in pyrite concentrates.

Sulphur, elemental – In the western provinces sour natural gas is processed to remove the hydrogen sulphide which is further reduced to yellow elemental Sulphur. Elemental sulphur is produced in the refining of nickel. Shipments and values are reported by the producers. Elemental sulphur made from imported crude petroleum is not included in the Mineral Production of Canada.

Talc – Production represents the tonnage of any crude talc shipped, plus any milled or refined talc shipped from mills operated in conjunction with the mines. The value is taken as reported by the mine and mill operators.

Titanium dioxide, etc. – Ilmenite ore is smelted at Sorel, Quebec, to produce a slag containing titanium dioxide. Production is the titanium dioxide content valued by the producer. Included in this item are other titanium products such as Soreflux. Quantities are not published and the values are for the combined commodities.

FUELS

Coal — Production represents the output tonnage, valued at the average realization from sales, f.o.b. mine. Coal put on the waste heap is excluded.

Natural gas — Production is taken as all new production, less flared field production as measured at the first well head metering point. It also includes gas reproduced from fields less injected gas. Natural gas and natural gas by-products produced by gas processing

plants are valued after deducting quantity returned to formation. In addition, for purposes of valuation, processing shrinkage is deducted from natural gas volume.

Crude oil — Production is taken as all production less that portion returned to formation, valued at well head prices. Production derived from crude bitumen (synthetic crude) is valued at the processing plant gate.

STRUCTURAL MATERIALS

Canadian mining statistics include the production of structural materials, such as cement, lime, stone, sand and gravel and bricks made from clay. There is very little production in Canada of clay for sale to brick works, or stone to cement works, and since the raw material has no value until turned into a saleable product, it has been the practice, since mineral production statistics have been compiled in Canada, to count the production of structural materials as part of the mineral production of the country.

Portland cement — Production represents quantities shipped, plus amounts used by producers. Value is computed on basis of selling values, f.o.b. works.

Clay products — Production represents shipments of brick and other clay products made from domestic clays and the shipments of unmanufactured clays at the total selling value, f.o.b. works as reported by the operators. Data relating to clay products manufactured from imported clays are not included.

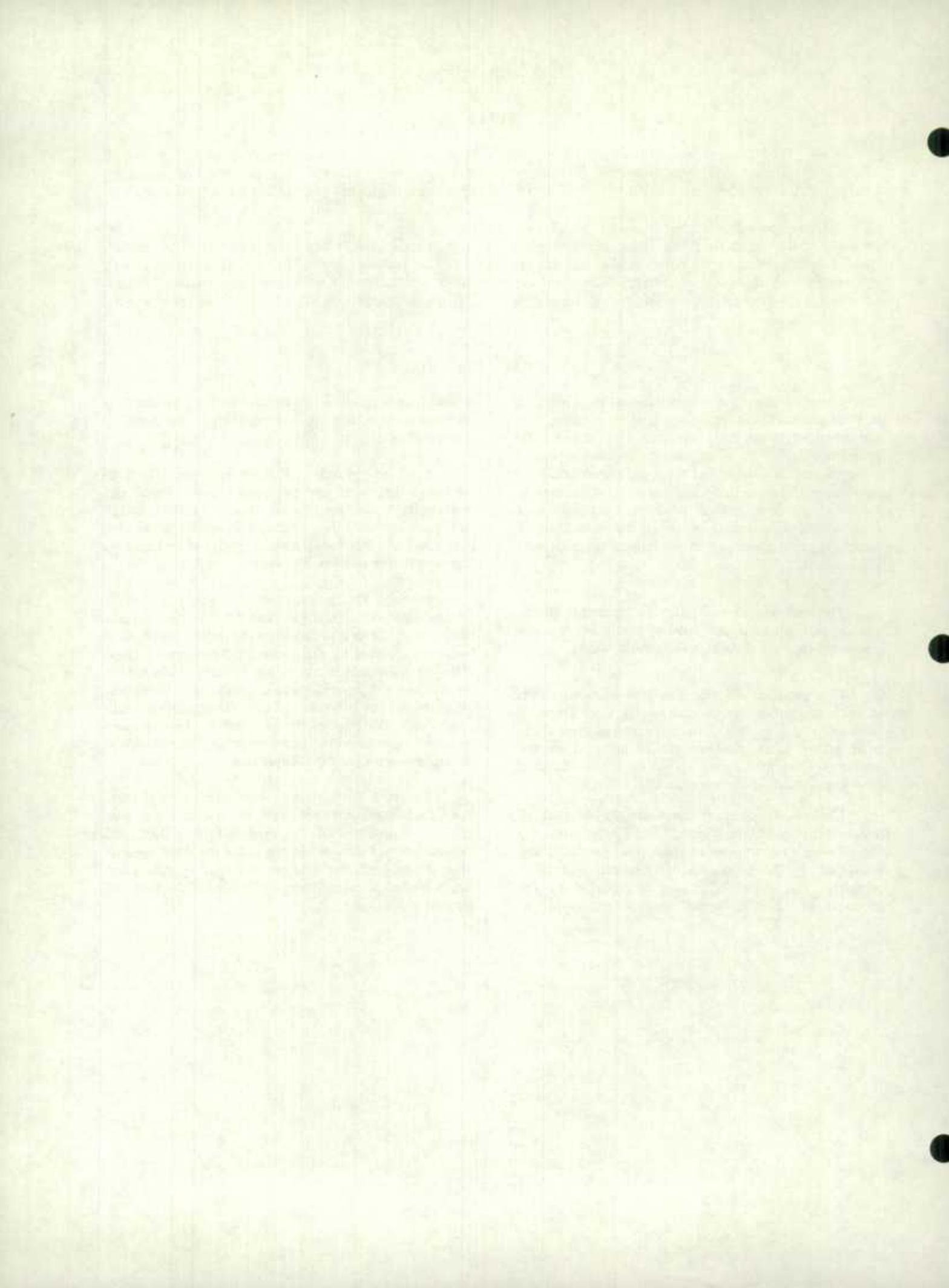
Lime — Production represents the tonnage of hydrated and quicklime shipped (sold by the producer) together with the tonnage of these limes produced and consumed by the producers of chemicals and allied products. The values taken are as reported by the producer. If waste or "spent" lime is "recalcined" or

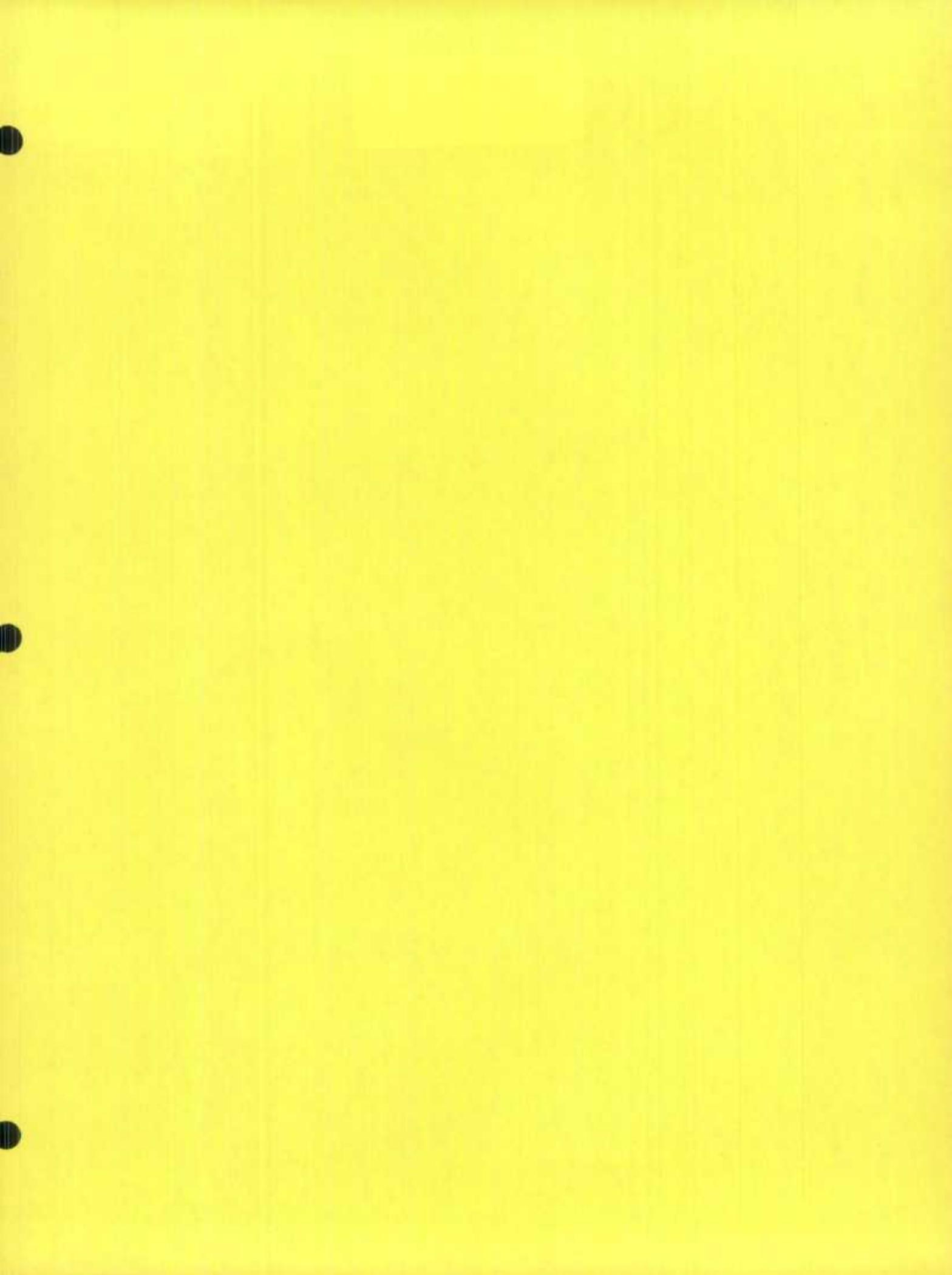
utilized again in the manufacture of such products as calcium carbide, the necessary deductions are made to prevent duplication.

Sand and gravel — Production represents shipments at the values reported by operators of sand and gravel pits or dredges. Special forms are utilized in the collection of data for sands produced by provincial, municipal and other governments employed on highway, construction or other public works.

Stone — Production represents quarry shipments of crude or undressed stone, crushed stone, and dressed stone, if the latter is prepared by the quarry operators at values as reported by the operators. The figures include data for both private and public or municipally-owned properties and special questionnaires are sometimes prepared for the collection of statistics from municipalities. Production figures do not include dressed stone prepared from imported stone or prepared from domestic stone in works not at the quarries.

To avoid duplication in computing a total value for Canadian mineral production, the quantity and value of stone consumed in the manufacture of lime and cement are not included in the totals for stone production. These particular data are recorded separately and are published in conjunction with data for the lime and cement industries.





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