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GENERAL REVIEW OF THE MINING INDUSTRY

1953

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GENERAL REVIEW OF THE MINING INDUSTRY

1953

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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: Volume I — The Primary Industries, including mining, forestry and fisheries; Volume II — Manufacturing; Volume III — Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume I consists of the following parts:

- Part I — Mineral Statistics
- Part II — Forestry Statistics — Operations in the Woods
- Part III — Fisheries Statistics

Part I includes the following reports which constitute the complete series on Mineral Statistics of Canada. Individual reports are issued as the information becomes available; they are arranged in a form suitable for binding.

- A — General Review of the Mining Industry, 50¢
- B — The Gold Mining Industry, 50¢
- C — The Silver-Lead-Zinc Mining Industry, 25¢
- D — The Nickel-Copper Mining, Smelting and Refining Industry, 25¢
- E — The Miscellaneous Metal Mining Industry, 25¢
- F — The Non-ferrous Smelting and Refining Industry, 25¢
- G — The Coal Mining Industry, \$1.00
- H — The Crude Petroleum and Natural Gas Industry, 25¢
- I — The Asbestos Mining Industry, 25¢
- J — The Feldspar and Quartz Mining Industry, 25¢
- K — The Gypsum Industry, 25¢
- L — The Peat Industry, 25¢
- M — The Salt Industry, 25¢
- N — The Talc and Soapstone Industry, 25¢
- O — The Miscellaneous Non-metal Mining Industry, 25¢
- P — The Cement Manufacturing Industry, 25¢
- Q — The Clay and Clay Products Industry, 25¢
- R — The Lime Industry, 25¢
- S — The Sand and Gravel Industry, 25¢
- T — The Stone Industry, 25¢
- U — Contract Drilling in the Mining Industry, 25¢

GENERAL REVIEW OF THE MINING INDUSTRY

1953

The value of the minerals produced in Canada during 1953 amounted to \$1,336,303,503, an increase of 3.9 per cent above the value of \$1,285,342,353 in 1952. Crude petroleum gained by \$57 millions to become the leading mineral with a valuation in excess of \$200 millions. Nickel moved into second place with \$160 millions, followed by copper valued at nearly \$151 millions. Gold, which had been leading for nearly twenty-five years, was fourth with less than \$140 millions. The value of cement increased by \$10.8 millions, but lead dropped \$4.6 millions; zinc was down \$33.7 millions and gold was reduced by \$14.6 millions.

Metals had a total output value of \$708,880,758 in 1953 compared with \$727,904,366 in the preceding year. Prolonged strikes at some of the gold mines curtailed output during the latter half of the year, the annual total amounting to 4,055,723 troy ounces at \$139,597,985 compared with 4,471,725 ounces at \$153,246,016 in 1952. Copper production at 253,252 tons was about 2 per cent less than in 1952, but higher prices raised the total value to \$150,953,742. Zinc output rose 8 per cent to 401,762 tons and lead gained 14.7 per cent to 193,706 tons, but price declines resulted in much lower values at \$50 millions and \$96 millions respectively. Iron ore shipments at 6.5 million tons were the highest on record. Remelt iron, a co-product of titanium ore smelting, was valued at \$4 millions. Nickel at \$160.4 millions had the greatest value of any individual metal. Tungsten concentrates were valued at about \$5.7 millions.

Mineral fuels reached a total value of \$314,181,168, an increase of 19.1 per cent over the valuation of \$263,582,319 in 1952. Nearly 81 million barrels of crude petroleum valued at \$200.6 millions were produced in 1953 as compared with 61.2 million barrels worth \$143 millions in 1952. Natural gas output was over 100 billion cubic feet valued at \$10.9 millions. Coal production amounted to 15,900,673 tons worth \$102,721,875, a decrease of nearly 1.7 million tons, as several coal mines ceased operations.

Other non-metallic minerals were valued at \$126,039,359. Both the tonnage and value of asbestos were lower in the year under review. The producers' shipments amounted to 911,713 tons valued at \$87,633,124. Barite tonnage at 247,227 was nearly double that of the previous year. There were increases in feldspar, fluorspar, mica, talc and some of the other non-metallics. Nepheline syenite ship-

ments increased by 30 thousand tons. Salt decreased in tonnage and value. Slag, containing titanium dioxide, was valued at \$4.2 millions.

Structural materials were valued at a new high of \$187.2 millions. The cement producers shipped 22.2 million barrels valued at \$58.8 millions. The clay products increased by \$4.8 millions to \$29.8 millions. Included in this industry are the firms which make brick, tile, sewer pipe, flue linings, stoneware and pottery from Canadian clays. The lime shipments, which had declined in 1952, increased by 50,000 tons but were below the record of 1951. Sand and gravel used for road-building, concrete aggregate, etc., amounted to \$53.5 millions. Stone for buildings, piers, railway ballast, highways, concrete aggregate, etc., was valued at \$30.6 millions.

Although Canada's mineral production increased in 1953, some of the provinces showed a decline, particularly those areas where lead and zinc are a large portion of the mineral output. Newfoundland, Nova Scotia and New Brunswick were up \$1.3 millions, \$2.8 millions and \$0.3 millions respectively. Quebec's value of output declined by \$18.6 millions and Ontario rose by \$20.8 millions. There was only a slight rise in Manitoba and a minor decline in Saskatchewan. Due chiefly to crude petroleum Alberta's mineral valuation rose \$52 millions. Lower prices for base metals and lower tonnage of coal were largely responsible for the decrease of \$12.6 millions in British Columbia's production. The Northwest Territories and Yukon showed increases of \$1.4 millions and \$3.3 millions, respectively.

The index, based on 1935-39 = 100, of the physical volume of mineral production was 185.8 in 1953 and 174.7 in 1952. There were 101.5 million tons of ore mined and rock quarried. Of this total, 54.4 million tons were from metal mines, 19.8 million tons of non-metallics, and 27.3 million tons of stone quarried. Sodium sulphate, sand and gravel and similar materials which are not actually mined were not included in the total.

The mineral industry employed 130,038 persons to whom \$453,065,518 were paid in salaries and wages. The cost of fuel and electricity amounted to \$111,097,834.

The ten leading minerals in order of production value were as follows in 1953: crude petroleum, nickel, copper, gold, coal, zinc, asbestos, cement, sand and gravel, lead.

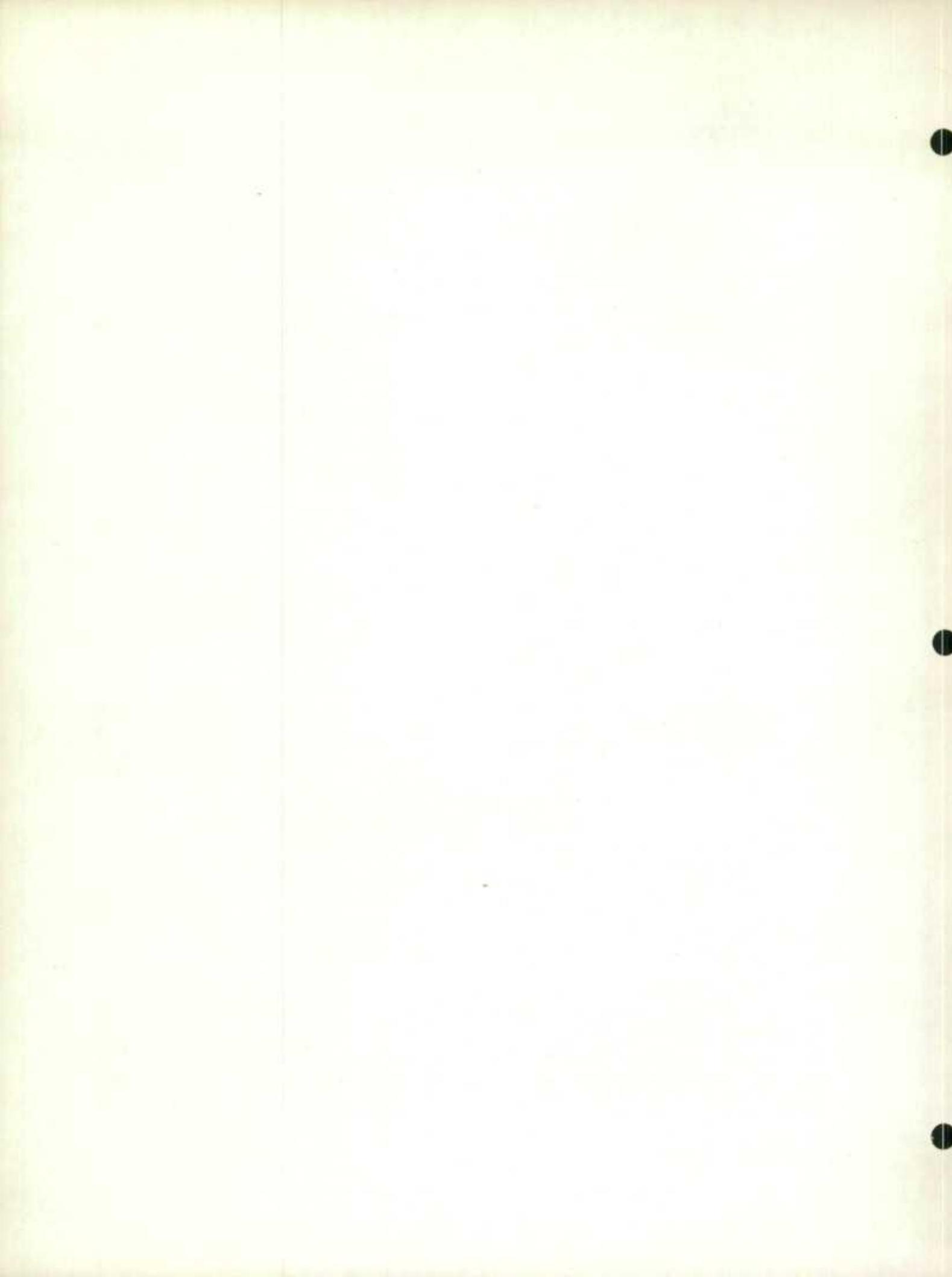


TABLE 1. Mineral Production, by Kinds, 1952 and 1953

		1952		1953	
		Quantity	Value	Quantity	Value
			\$		\$
Metallics:					
Antimony.....	lb.	2,330,900	601,483	1,488,105	291,862
Bismuth.....	lb.	162,373	347,224	117,366	209,557
Cadmium.....	"	948,587	2,086,891	1,118,285	2,236,570
Calcium.....	"	1,421,923	3,226,903	1,602,545	4,013,077
Cobalt.....	lb.	516,075,097	146,679,040	506,504,074	150,953,742
Copper.....	Troy oz.	4,471,725	153,246,016	4,055,723	139,597,985
Gold.....	"	404	909	6,752	9,588
Indium.....	tons	5,271,849	33,744,311	6,509,818	44,102,944
Iron ore.....	"	32,422	1,815,007	107,370	4,064,039
Iron ingots.....	lb.	337,683,891	54,671,021	387,411,588	50,076,822
Magnesium ³	"	2	4,812,368	2	5,295,840
Molybdenite concentrates (MoS ₂).....	lb.	505,964	409,831	323,907	215,527
Nickel.....	"	281,117,072	151,349,438	287,385,777	160,430,098
Palladium, rhodium, iridium, etc.....	Troy oz.	157,407	7,559,109	166,018	7,495,409
Platinum.....	"	122,317	10,916,792	137,545	12,550,981
Pitchblende products.....	"		Not available		
Selenium.....	lb.	242,000	786,599	262,346	1,101,854
Silver.....	Troy oz.	25,222,227	21,065,603	28,299,335	23,774,271
Tellurium.....	lb.	6,035	10,259	4,694	8,215
Tin.....	"	212,113	253,581	1,092,228	581,746
Titanium ore.....	tons	51	459	9,294	80,085
Tungsten (WO ₃).....	lb.	1,493,111	4,488,237	2,446,028	5,689,160
Zinc.....	"	743,604,155	129,833,285	803,523,295	96,101,386
Total metallics.....	-	...	727,904,366	...	708,880,758
Non-metallics:					
Fuels:					
Coal.....	tons	17,579,002	111,026,149	15,900,673	102,721,875
Natural gas.....	M cu. ft.	88,686,465	9,517,638	100,985,923	10,877,017
Peat.....	tons	32	320	-	-
Petroleum.....	bbl.	61,237,322	143,038,212	80,898,897	200,582,276
Total fuels.....	-	...	263,582,319	...	314,181,168
Other non-metallics:					
Arsenious oxide.....	lb.	1,708,351	76,876	1,403,740	56,150
Asbestos.....	tons	929,339	89,254,913	911,226	86,052,895
Barite.....	"	136,002	1,521,162	247,227	2,220,292
Diatomite.....	"	28	1,074	103	12,150
Feldspar.....	"	20,267	330,635	21,246	347,164
Fluorspar.....	"	82,187	2,523,408	88,569	2,670,585
Graphite.....	"	2,040	255,732	3,466	366,528
Grindstones.....	"	42	5,720	15	900
Gypsum.....	"	3,590,783	6,538,074	3,841,457	7,399,884
Iron oxides.....	"	11,487	194,922	10,308	195,801
Magnesitic dolomite and brucite.....	"	...	2,715,266		3,056,392
Mica.....	lb.	2,014,941	194,106	2,265,128	161,128
Mineral waters.....	gal.	311,495	166,033	309,585	165,484
Nepheline syenite.....	tons	82,681	1,111,950	113,345	1,576,271
Peat moss.....	"	74,899	2,443,765	81,654	2,643,019
Perlite.....	"	-		1,112	11,120
Quartz.....	"	1,783,081	2,253,500	1,785,574	2,070,617
Salt.....	"	971,903	7,774,815	954,928	6,974,501
Silica brick.....	M	3,544	606,394	3,720	712,271
Soapstone and talc.....	tons	25,032	280,612	27,408	285,755
Sodium sulphate.....	"	122,590	1,708,807	115,565	1,681,258
Sulphur.....	"	423,788	3,851,183	358,850	3,172,698
Titanium dioxide in slag.....	"	30,805	1,238,103	100,527	4,206,496
Total other non-metallics.....	-	...	125,047,050	...	126,039,359
Clay products and other structural materials:					
Clay products (brick, tile, etc.).....	-	-	24,961,528	-	29,777,731
Cement.....	bbl.	18,520,538	48,059,470	22,238,335	58,842,022
Lime.....	tons	1,175,786	13,613,221	1,228,760	14,484,013
Sand and gravel.....	"	102,895,545	51,339,043	101,033,949	53,485,401
Stone.....	"	18,726,196	30,835,356	19,849,017	30,613,051
Total clay products and other structural materials.....	-	...	168,808,618	...	187,202,218
GRAND TOTAL.....	-	...	1,285,342,353	...	1,336,303,503

1. Included with magnesium in 1952 and 1953.
 2. Data not available for publication.
 3. Includes calcium.

MINERAL STATISTICS

TABLE 2. Mineral Production, by Provinces, 1953

No.		Unit of measure	Newfoundland	Nova Scotia	New Brunswick	Quebec
Metals						
1	Antimony	lb. \$	—	—	—	—
2	Bismuth	lb. \$	—	—	—	46,068 49,136
3	Cadmium	lb. \$	—	—	—	—
4	Cobalt	lb. \$	—	—	—	—
5	Copper	lb. \$	5,627,461 1,684,862	1,576,360 471,962	—	109,839,871 32,886,057
6	Gold	oz. \$	7,654 263,451	3,248 111,796	—	1,021,698 35,166,845
7	Indium	oz. \$	—	—	—	—
8	Iron ore	ton \$	2,686,481 14,201,842	—	—	—
9	Iron ingots	ton \$	—	—	—	107,370 4,064,039
10	Lead	lb. \$	35,403,172 4,576,214	3,652,126 472,074	—	18,473,850 2,387,930
11	Magnesium and calcium	lb. \$	—	—	—	—
12	Molybdenite	lb. \$	—	—	—	323,907 215,527
13	Nickel	lb. \$	—	—	—	—
14	Palladium, iridium, etc.	oz. \$	—	—	—	—
15	Platinum	oz. \$	—	—	—	—
16	Pitchblende	—	—	Not available	—	—
17	Selenium	lb. \$	—	—	—	113,533 476,839
18	Silver	oz. \$	648,389 544,712	226,225 190,052	—	4,571,373 3,840,410
19	Tellurium	lb. \$	—	—	—	—
20	Tin	lb. \$	—	—	—	—
21	Titanium ore	ton \$	—	—	—	9,294 80,085
22	Tungsten concentrates (WO_3)	lb. \$	—	—	—	—
23	Zinc	lb. \$	56,003,584 6,698,029	14,698,698 1,757,964	—	200,859,247 24,022,766
24	Total metals	\$	27,969,110	3,003,848	—	103,189,634
Non-metallics						
25	Arsenious oxide	lb. \$	—	—	—	—
26	Asbestos	ton \$	—	—	—	884,595 81,000,775
27	Barite	ton \$	—	—	—	—
28	Diatomite	ton \$	244,349 2,167,447	3 150	—	—
29	Feldspar	ton \$	—	—	—	18,591 319,146
30	Fluorspar	ton \$	87,693 2,631,698	—	—	—
31	Graphite	ton \$	—	—	—	—
32	Grindstones	ton \$	—	—	15 900	—

1. Included in magnesitic dolomite and brucite.

GENERAL REVIEW OF THE MINING INDUSTRY

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TABLE 2. Mineral Production, by Provinces, 1953

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Yukon	Canada	No.
—	—	—	—	1,488,105 291,862	—	—	1,488,105 291,862	1 2
—	—	—	—	71,298 160,421	—	—	117,366 209,557	3 4
—	30,987 61,974	127,010 254,020	—	721,862 1,443,724	—	238,426 476,852	1,118,285 2,236,570	5 6
1,602,545 4,013,077	—	—	—	—	—	—	1,602,545 4,013,077	7 8
261,164,653 77,587,439	18,822,890 5,635,573	61,176,869 18,316,355	—	48,295,970 14,371,494	—	—	506,504,074 150,953,742	9 10
2,182,437 75,119,481	131,309 4,519,656	88,327 3,040,215	65 2,237	264,976 9,120,474	289,929 9,979,356	66,080 2,274,474	4,055,723 139,597,985	11 12
—	—	—	—	6,752 9,588	—	—	6,752 9,588	13 14
2,832,090 23,137,997	—	—	—	991,247 6,763,105	—	—	6,509,818 44,102,944	15 16
—	—	—	—	—	—	—	107,370 4,064,039	17 18
656,755 84,892	—	—	—	297,634,712 38,472,263	—	31,590,973 4,083,449	387,411,588 50,076,822	19 20
5,295,840	—	—	—	—	—	—	5,295,840	21 22
—	—	—	—	—	—	—	323,907 215,527	23 24
287,385,777 160,430,098	—	—	—	—	—	—	287,385,777 160,430,098	25 26
166,018 7,495,409	—	—	—	—	—	—	166,018 7,495,409	27 28
137,545 12,550,981	—	—	—	—	—	—	137,545 12,550,981	29 30
Not available								
92,698 389,332	10,892 45,746	45,223 189,937	—	—	—	—	262,346 1,101,854	32 33
5,154,619 4,330,395	429,508 360,830	1,257,622 1,056,528	6 5	9,308,874 7,820,385	63,592 53,424	6,639,127 5,577,530	28,299,335 23,774,271	34 35
4,525 7,919	33 58	136 238	—	—	—	—	4,694 8,215	36 37
—	—	—	—	1,092,228 581,746	—	—	1,092,228 581,746	38 39
—	—	—	—	—	—	—	9,294 80,085	40 41
48,780 132,685	—	—	—	2,395,544 5,556,000	—	1,704 475	2,446,028 5,689,160	42 43
171,787 20,546	31,532,737 3,771,315	99,929,241 11,951,537	—	382,300,862 45,723,183	—	18,027,139 2,156,046	803,523,295 96,101,386	44 45
370,596,091	14,395,152	34,808,830	2,242	130,314,245	10,032,780	14,568,826	708,880,758	46
1,403,740 56,150	—	—	—	—	—	—	1,403,740 56,150	47 48
23,529 4,063,404	—	—	—	3,102 988,716	—	—	911,226 86,052,895	49 50
—	—	—	—	2,878 52,845	—	—	247,227 2,220,292	51 52
100 12,000	—	—	—	—	—	—	103 12,150	53 54
2,655 28,018	—	—	—	—	—	—	21,246 347,164	55 56
876 38,887	—	—	—	—	—	—	88,569 2,670,585	57 58
3,466 3,466	—	—	—	—	—	—	3,466 366,528	59 60
—	—	—	—	—	—	—	15 900	61 62

TABLE 2. Mineral Production, by Provinces, 1953 — Concluded

No.		Unit of measure	Newfoundland	Nova Scotia	New Brunswick	Quebec
Non-metallics—Concluded						
1	Gypsum.....	ton	26,531	3,050,832	120,816	—
2		\$	117,208	5,200,420	380,570	—
3	Iron oxide.....	ton	—	—	—	10,308
4		\$	—	—	—	195,801
5	Magnesitic dolomite, brucite.....	ton	—	—	—	3,056,392
6		\$	—	—	—	—
7	Mica.....	lb.	—	—	—	1,478,615
8		\$	—	—	—	99,080
9	Mineral water.....	gal.	—	—	—	309,285
10		\$	—	—	—	165,334
11	Nepheline syenite.....	ton	—	—	—	—
12		\$	—	—	—	—
13	Peat, moss.....	ton	—	150	8,323	22,021
14		\$	—	5,706	246,946	587,871
15	Perlite.....	ton	—	—	—	—
16		\$	—	—	—	—
17	Phosphate rock.....	ton	—	—	—	—
18		\$	—	—	—	—
19	Quartz.....	ton	—	—	—	165,706
20		\$	—	—	—	603,524
21	Salt.....	ton	—	127,819	—	—
22		\$	—	1,272,463	—	—
23	Silica brick.....	M	—	2,253	—	—
24		\$	—	399,096	—	—
25	Soapstone and talc.....	ton	—	—	—	14,098
26		\$	—	—	—	160,546
27	Sodium carbonate.....	ton	—	—	—	—
28		\$	—	—	—	—
29	Sodium sulphate.....	ton	—	—	—	—
30		\$	—	—	—	—
31	Sulphur.....	ton	—	—	—	169,766
32		\$	—	—	—	1,211,343
33	Titanium dioxide.....	ton	—	—	—	100,527
34		\$	—	—	—	4,206,496
35	Total non-metallics.....	\$	2,748,906	9,045,282	628,416	91,606,108
Fuels						
36	Coal.....	ton	—	5,787,026	721,252	—
37		\$	—	51,997,545	5,747,073	—
38	Natural gas.....	M cu. ft.	—	—	177,112	—
39		\$	—	—	131,368	—
40	Peat.....	ton	—	—	—	—
41		\$	—	—	—	—
42	Petroleum, crude.....	bbl.	—	—	14,738	—
43		\$	—	—	20,633	—
44	Total fuels.....	\$	—	51,997,545	5,899,074	—
Structural materials						
45	Clay products.....	\$	39,500	1,234,319	620,769	8,070,942
46	Cement.....	bbl.	395,834	—	823,900	7,400,912
47		\$	1,345,073	—	2,104,469	19,232,112
48	Lime.....	ton	160	—	21,184	424,305
49		\$	6,942	—	430,226	4,236,639
50	Sand and gravel.....	ton	1,908,187	1,523,083	2,648,235	26,694,125
51		\$	1,023,622	1,459,770	1,282,421	11,630,482
52	Stone.....	ton	391,633	193,101	987,977	7,754,248
53		\$	647,469	623,644	698,243	13,915,864
54	Total structural materials.....	\$	3,062,606	3,317,733	5,136,128	57,086,039
55	GRAND TOTAL, 1953.....	\$	33,780,622	67,364,408	11,363,618	251,831,781
56	GRAND TOTAL, 1952.....	\$	32,512,313	64,552,383	11,298,960	270,483,962

1. Included in magnesitic dolomite and brucite.

GENERAL REVIEW OF THE MINING INDUSTRY

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TABLE 2. Mineral Production, by Provinces, 1953 — Concluded

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Yukon	Canada	No.
334,495	163,313	—	—	145,470	—	—	3,841,457	1
899,630	414,401	—	—	387,655	—	—	7,399,884	2
—	—	—	—	—	—	—	10,308	3
—	—	—	—	—	—	—	195,801	4
—	—	—	—	—	—	—	3,056,392	5
466,513	—	—	—	320,000	—	—	2,265,128	7
59,168	—	—	—	2,880	—	—	161,128	8
300	—	—	—	—	—	—	309,585	9
150	—	—	—	—	—	—	165,484	10
113,345	—	—	—	—	—	—	113,345	11
1,576,271	—	—	—	—	—	—	1,576,271	12
1,319	2,085	—	—	47,756	—	—	81,654	13
52,535	92,433	—	—	1,657,728	—	—	2,648,019	14
—	—	—	—	1,112	—	—	1,112	15
—	—	—	—	11,120	—	—	11,120	16
—	—	—	—	—	—	—	—	17
—	—	—	—	—	—	—	—	18
1,450,770	—	152,786	—	16,312	—	—	1,785,574	19
1,301,048	—	76,393	—	89,652	—	—	2,070,617	20
749,046	18,078	35,100	24,885	—	—	—	954,928	21
3,919,810	420,631	760,082	601,515	—	—	—	6,974,501	22
1,467	—	—	—	—	—	—	3,720	23
313,175	—	—	—	—	—	—	712,271	24
13,310	—	—	—	—	—	—	27,408	25
125,209	—	—	—	—	—	—	285,755	26
—	—	—	—	—	—	—	—	27
—	—	—	—	—	—	—	—	28
—	—	115,565	—	—	—	—	115,565	29
—	—	1,681,258	—	—	—	—	1,681,258	30
37,130	—	—	—	151,954	—	—	358,850	31
371,303	—	—	—	1,590,055	—	—	3,172,698	32
—	—	—	—	—	—	—	100,527	33
—	—	—	—	—	—	—	4,206,496	34
13,183,283	927,465	2,517,733	601,515	4,780,651	—	—	126,039,359	35
—	—	2,021,304	5,917,474	1,443,006	—	10,611	15,900,673	36
—	—	3,834,455	32,110,429	8,862,637	—	169,736	102,721,875	37
9,708,969	—	1,422,128	89,651,605	—	26,109	—	100,985,923	38
3,883,588	—	127,992	6,723,870	—	10,199	—	10,877,017	39
—	—	—	—	—	—	—	—	40
—	—	—	—	—	—	—	—	41
299,685	653,514	2,797,888	76,816,383	—	316,689	—	80,898,897	42
994,835	1,714,806	3,833,107	193,761,644	—	257,251	—	200,582,276	43
4,878,423	1,714,806	7,795,554	232,595,943	8,862,637	267,450	169,736	314,181,168	44
14,829,222	568,477	742,959	2,135,085	1,536,458	—	—	29,777,731	45
7,078,181	1,614,301	—	3,098,664	1,826,543	—	—	22,238,335	46
18,497,744	4,676,137	—	7,915,227	5,071,260	—	—	58,842,022	47
659,062	50,981	—	29,263	43,805	—	—	1,228,760	48
7,714,252	787,032	—	430,924	877,998	—	—	14,484,013	49
43,658,099	4,686,323	4,770,368	7,651,261	7,494,268	—	—	101,033,949	50
24,359,496	1,524,629	2,216,894	5,097,720	4,890,367	—	—	53,485,401	51
8,818,886	377,819	—	18,833	1,306,520	—	—	19,849,017	52
11,818,582	670,414	—	84,639	2,154,196	—	—	30,613,051	53
77,219,296	8,226,689	2,959,853	15,663,595	14,530,279	—	—	187,202,218	54
463,877,093	25,264,112	48,081,970	248,863,295	158,487,812	10,300,230	14,738,562	1,336,303,503	55
444,669,412	25,105,045	49,506,094	196,811,654	170,071,244	8,944,835	11,386,451	1,285,342,353	56

MINERAL STATISTICS

TABLE 3. Annual Values of the Mineral Production of Canada Since 1886

Year	Metallics	Fuels	Other non-metallics	Structural materials and clay products	Total	Value per capita
	\$	\$	\$	\$	\$	\$
1886.....	2,118,608	4,367,444	1,259,827	2,225,376	10,221,255	2.23
1887.....	2,073,746	5,080,853	1,209,153	2,707,579	11,321,331	2.23
1888.....	2,625,292	5,522,016	1,320,585	2,798,001	12,518,894	2.67
1889.....	3,251,299	5,702,930	1,562,010	3,247,674	14,013,913	2.96
1890.....	3,614,488	6,745,279	2,392,315	3,761,271	16,763,353	3.50
1891.....	5,421,659	8,205,228	2,025,195	3,074,534	18,976,616	3.92
1892.....	3,698,697	7,658,444	1,417,821	3,603,455	16,628,417	3.39
1893.....	4,630,495	8,771,358	1,249,283	5,133,946	20,035,082	4.04
1894.....	4,685,852	8,727,095	1,263,803	5,004,408	19,931,158	3.98
1895.....	6,087,114	8,248,923	1,193,512	4,726,368	20,505,917	4.05
1896.....	8,030,633	8,658,410	1,207,671	4,327,542	22,474,256	4.38
1897.....	13,780,314	8,641,016	1,425,093	4,388,550	28,485,023	5.49
1898.....	21,741,865	9,608,158	1,492,262	5,270,146	38,412,431	7.32
1899.....	29,282,823	11,872,788	1,510,111	6,168,283	49,234,005	9.27
1900.....	40,521,807	15,311,479	1,914,690	6,372,901	64,420,877	12.04
1901.....	41,939,500	14,047,654	2,713,621	6,803,836	65,804,611	12.16
1902.....	35,924,651	16,359,722	2,730,425	7,896,836	63,211,634	11.36
1903.....	33,210,147	17,197,317	2,589,302	8,443,747	61,740,513	10.83
1904.....	30,924,897	17,858,902	2,807,995	8,182,103	60,073,897	10.27
1905.....	36,946,212	18,756,112	3,468,408	9,608,267	69,078,999	11.49
1906.....	41,949,563	21,081,724	4,424,882	11,530,528	79,286,697	12.81
1907.....	42,426,607	26,254,162	5,021,384	12,863,049	86,865,202	13.75
1908.....	41,774,362	26,954,515	5,188,269	11,339,955	85,557,101	13.16
1909.....	44,156,841	26,548,109	4,593,142	16,533,349	91,831,441	13.70
1910.....	49,438,873	32,647,404	5,109,754	19,627,592	106,823,623	14.93
1911.....	46,105,423	28,746,214	5,659,746	22,709,611	103,220,994	14.32
1912.....	61,172,753	38,729,694	6,750,980	28,794,869	135,048,296	18.33
1913.....	66,361,351	41,060,860	7,402,849	30,809,752	145,634,812	19.35
1914.....	59,386,619	37,302,122	6,165,107	26,009,227	128,863,075	16.75
1915.....	75,814,841	36,115,839	7,254,732	17,920,759	137,109,171	17.44
1916.....	106,319,365	43,169,294	10,245,689	17,467,185	177,201,534	22.05
1917.....	106,455,147	48,787,368	14,566,995	19,837,311	189,646,821	23.18
1918.....	114,549,152	60,428,979	17,192,967	19,130,799	211,301,897	25.37
1919.....	73,262,793	59,325,710	16,676,377	27,421,510	176,686,390	20.84
1920.....	77,939,630	85,767,250	22,260,697	41,892,088	227,859,665	26.40
1921.....	49,343,232	77,694,017	10,148,665	34,737,428	171,923,342	19.56
1922.....	61,785,707	71,990,674	10,986,120	39,534,741	184,297,242	20.55
1923.....	83,764,403	78,465,622	14,097,925	37,751,381	214,079,331	23.41
1924.....	102,058,235	59,770,024	12,374,278	35,380,869	209,583,406	22.71
1925.....	116,951,996	57,354,055	14,628,048	37,649,234	226,583,333	24.19
1926.....	115,090,770	68,743,933	16,643,022	39,959,398	240,437,123	25.61
1927.....	113,349,051	71,426,516	17,771,709	44,809,419	247,356,095	25.67
1928.....	131,819,402	74,413,160	19,019,744	49,737,181	274,989,487	27.96
1929.....	154,282,736	76,787,397	21,245,279	58,534,834	310,850,246	31.00
1930.....	142,614,237	68,184,485	15,347,391	53,727,465	279,873,578	27.42
1931.....	120,794,977	54,453,143	11,028,311	44,158,295	230,434,726	22.21
1932.....	111,943,049	49,047,342	7,839,551	22,398,283	191,228,225	18.20
1933.....	147,206,959	47,778,436	10,061,071	16,696,687	221,743,153	20.74
1934.....	194,213,956	54,262,099	10,558,174	19,286,761	278,320,990	25.67
1935.....	222,139,223	54,824,200	12,579,334	23,215,400	312,758,157	28.56
1936.....	259,988,203	59,983,320	16,782,608	25,770,741	362,524,872	32.82
1937.....	335,000,751	65,828,879	22,536,303	34,869,699	458,235,632	41.13
1938.....	324,064,074	64,803,294	20,122,661	33,878,666	442,868,695	39.42
1939.....	343,453,866	70,671,328	25,114,106	35,302,759	474,602,059	41.94
1940.....	382,440,214	78,837,874	26,074,296	42,472,651	529,825,035	46.39
1941.....	395,193,386	85,141,997	34,532,635	45,373,272	560,241,290	49.06
1942.....	391,540,411	92,169,291	37,329,163	45,729,807	566,768,672	48.63
1943.....	356,558,751	92,514,384	38,970,577	42,010,254	530,053,966	44.87
1944.....	308,111,295	97,291,007	37,431,875	42,984,937	485,819,114	40.57
1945.....	316,962,810	93,531,276	39,841,422	48,419,673	498,755,181	41.15
1946.....	290,386,425	102,510,888	43,792,717	66,120,221	502,816,251	40.86
1947.....	395,069,530	110,481,207	54,742,453	84,576,785	644,869,975	51.25
1948.....	488,151,055	159,736,260	67,234,304	105,127,246	820,248,865	63.67
1949.....	538,967,258	183,654,473	64,585,216	113,903,079	901,110,026	66.51
1950.....	617,238,340	201,193,957	94,721,564	132,296,212	1,045,450,073	74.68
1951.....	745,588,728	232,854,093	115,706,983	151,333,791	1,245,483,595	88.90
1952.....	727,904,366	263,582,319	125,047,050	168,808,618	1,285,342,353	89.07
1953.....	708,880,758	314,181,168	126,039,359	187,202,218	1,336,303,503	90.40

Notes. In presenting 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.

1886-1897 total includes \$250,000 estimated value of unreported products.

1898-1908 total includes \$300,000 estimated value of unreported products, mostly structural materials.

TABLE 4. Physical Volume of Mineral Production
(1935-39 = 100)

Year	Index	Year	Index	Year	Index
1921	31.6	1932	59.4	1943	116.1
1922	38.1	1933	60.7	1944	104.1
1923	42.2	1934	73.6	1945	100.9
1924	43.4	1935	79.5	1946	97.1
1925	47.5	1936	89.2	1947	106.2
1926	54.9	1937	103.8	1948	122.2
1927	58.7	1938	109.4	1949	131.7
1928	64.7	1939	118.0	1950	145.4
1929	67.6	1940	125.7	1951	161.8
1930	63.9	1941	132.0	1952	174.7
1931	59.2	1942	129.5	1953	185.8

TABLE 5. Value of Mineral Production, by Provinces, Since 1932

Year	Newfoundland	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba
	\$	\$	\$	\$	\$	\$
1932	—	16,201,279	2,223,505	25,638,466	85,910,030	9,058,365
1933	—	16,961,183	2,107,682	28,141,482	110,205,021	9,026,951
1934	—	23,310,729	2,156,151	31,269,945	145,565,871	9,776,934
1935	—	23,183,128	2,821,027	39,124,696	158,934,269	12,052,417
1936	—	26,672,278	2,587,891	49,736,919	184,532,892	11,315,527
1937	—	30,314,188	2,763,643	65,160,215	230,042,517	15,751,645
1938	—	26,253,645	3,802,565	68,965,594	219,801,994	17,173,002
1939	—	30,746,200	3,949,433	77,335,998	232,519,948	17,137,930
1940	—	33,318,587	3,435,916	86,313,491	261,483,349	17,828,522
1941	—	32,569,867	3,690,375	99,851,044	287,435,727	16,689,867
1942	—	32,783,165	3,609,158	104,300,010	259,114,946	14,345,046
1943	—	29,979,837	3,676,834	101,610,678	232,948,959	13,412,266
1944	—	33,981,977	4,133,902	90,182,553	210,706,307	13,830,406
1945	—	32,220,659	4,182,100	91,518,120	216,541,856	14,429,423
1946	—	35,350,271	4,813,166	92,785,148	191,544,429	16,403,549
1947	—	34,255,560	5,812,943	115,151,635	249,797,671	18,236,763
1948	—	56,400,245	7,003,285	152,038,867	294,239,673	26,081,349
1949	27,583,615	56,092,830	7,134,009	165,021,513	323,368,644	23,839,638
1950	25,824,047	59,482,173	12,756,975	220,176,517	366,801,525	32,691,173
1951	32,410,443	59,727,256	9,564,617	255,530,071	444,667,203	30,045,992
1952	32,512,313	64,552,383	11,298,960	270,483,962	444,669,412	25,105,045
1953	33,780,622	67,364,408	11,663,618	251,881,781	465,877,093	25,264,112
	Saskatchewan	Alberta	British Columbia	Northwest Territories ¹	Yukon	
	\$	\$	\$	\$	\$	
1932	1,681,728	21,174,061	27,326,173	21,423	1,993,195	
1933	2,477,425	19,702,953	30,794,504	279,729	2,041,223	
1934	2,977,061	20,228,851	41,206,965	199,604	1,628,879	
1935	3,816,943	22,289,681	48,692,050	541,638	1,302,308	
1936	6,970,397	23,305,726	54,407,036	775,834	2,220,372	
1937	10,271,463	25,597,117	73,555,798	994,518	3,784,528	
1938	7,782,847	28,966,272	64,549,130	1,614,076	3,959,570	
1939	8,794,090	30,691,617	65,216,745	3,248,777	4,961,321	
1940	11,505,858	35,092,337	74,134,485	2,594,157	4,118,333	
1941	15,020,555	41,364,385	76,841,180	3,860,298	3,117,992	
1942	20,578,749	47,359,831	77,247,932	3,976,267	3,453,568	
1943	26,735,984	48,941,210	68,442,386	2,679,993	1,625,819	
1944	22,291,848	51,066,662	57,246,071	1,440,069	939,319	
1945	22,336,074	51,753,237	64,063,842	470,812	1,239,058	
1946	24,480,900	60,082,513	74,622,846	1,039,525	1,893,904	
1947	32,594,016	67,432,270	116,772,621	2,720,988	2,095,508	
1948	34,517,208	93,211,229	148,223,614	4,267,485	4,265,910	
1949	36,054,536	113,728,425	136,385,911	6,801,729	5,099,176	
1950	35,983,923	135,758,940	138,888,205	8,050,899	9,035,696	
1951	51,032,953	168,144,211	176,278,932	8,288,747	9,793,170	
1952	49,506,094	196,811,654	170,071,244	8,944,835	11,386,451	
1953	48,081,970	248,863,295	158,487,812	10,300,230	14,738,562	

1. Values of pitchblende products not included since 1941.

MINERAL STATISTICS

TABLE 6. Mineral Production of Newfoundland, 1951-1953

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:		\$		\$		\$
Copper	lb.	5,798,674	1,606,233	5,918,288	1,689,079	5,627,461
Gold	troy oz.	8,515	313,778	8,595	294,551	7,654
Iron ore	short tons	1,724,991	9,145,960	1,653,878	8,668,192	2,686,481
Lead	lb.	32,888,189	6,051,427	36,118,414	5,847,571	35,403,172
Silver	troy oz.	534,519	505,388	638,524	533,295	648,389
Zinc	lb.	56,938,689	11,330,799	61,033,650	10,656,475	56,003,584
Non-metallics:						
Fluorspar	tons	67,925	1,966,477	81,283	2,484,943	87,693
Gypsum	tons	—	—	8,660	54,881	26,531
Structural materials:						
Cement	bbl.	—	—	126,100	529,750	395,834
Clay products	—	—	32,183	—	29,285	—
Lime	tons	—	—	436	17,533	—
Sand and gravel	tons	1,483,951	648,346	1,654,471	936,013	1,908,187
Stone	tons	486,440	792,319	475,704	768,326	391,633
Total	—	—	32,410,443	—	32,512,313	—
			33,780,622

TABLE 7. Mineral Production of Nova Scotia, 1951-1953

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:		\$		\$		\$
Copper	lb.	—	—	766,165	218,663	1,576,360
Gold	troy oz.	17	626	1,432	49,109	3,248
Lead	lb.	—	—	1,556,645	252,021	3,652,126
Silver	troy oz.	1	1	91,886	76,743	226,225
Zinc	lb.	—	—	8,816,141	1,539,298	14,698,698
Non-metallics:						
Barite	tons	96,865	1,115,693	135,154	1,507,754	244,349
Coal	"	6,307,629	49,113,932	5,905,265	51,227,678	5,787,026
Diatomite	"	84	2,925	16	834	3
Gypsum	"	3,190,030	4,107,822	2,969,312	4,373,842	3,050,832
Peat moss	"	578	17,556	970	29,400	150
Salt	"	127,252	1,631,904	138,845	1,565,814	127,819
Silica brick	M	2,293	260,398	2,383	360,296	2,253
Structural materials:						
Clay products	—	—	1,202,428	—	1,221,893	—
Sand and gravel	tons	1,756,641	1,527,052	1,574,539	1,269,540	1,523,083
Stone	"	270,181	746,919	340,396	859,508	193,101
Total	—	—	59,727,256	—	64,552,383	—
			67,364,408

TABLE 8. Mineral Production of New Brunswick, 1951-1953

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
Non-metallics:		\$		\$		\$
Coal	tons	653,439	4,822,869	742,823	5,836,736	721,252
Grindstones	"	60	6,000	42	5,720	15
Gypsum	"	109,469	328,407	110,183	333,638	120,816
Natural gas	M cu.ft.	261,579	194,312	202,042	150,073	177,112
Petroleum	bbl.	15,551	21,771	14,237	19,932	14,738
Peat moss	tons	4,587	161,934	2,400	96,000	8,323
Structural materials:						
Cement	bbl.	—	—	604,123	1,543,639	823,900
Clay products	—	—	740,861	—	655,084	620,769
Lime	tons	20,954	369,681	19,837	366,457	21,184
Sand and gravel	"	2,966,210	2,229,258	3,670,289	1,815,576	2,648,235
Stone	"	879,504	689,524	160,944	476,105	987,977
Total	—	—	9,564,617	—	11,298,960	—
			11,663,618

TABLE 9. Mineral Production of Quebec¹, 1951-1953

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:		\$		\$		\$
Bismuth	lb.	23,827	56,232	20,127	27,171	46,068
Copper	"	137,731,906	38,151,738	137,691,702	39,297,212	109,839,871
Gold	troy oz.	1,067,306	39,330,226	1,113,204	38,149,501	1,021,698
Iron ingots (remelt)	tons	15,554	777,142	32,422	1,815,007	107,370
Lead	lb.	15,512,623	2,854,323	21,039,859	3,406,353	18,473,850
Magnesium	"	2	2	2	2	2
Molybdenite concentrates (MoS ₂)	"	381,596	228,958	505,964	409,831	323,907
Selenium	"	165,575	536,463	78,830	256,198	113,533
Silver	troy oz.	4,154,290	3,927,881	4,536,247	3,788,673	4,571,373
Tellurium	"	—	—	—	—	—
Titanium ore	tons	1,674	9,790	51	459	9,294
Zinc	lb.	172,725,823	34,372,439	189,797,061	33,138,567	200,859,247
Non-metallics:						
Arsenic (As ₂ O ₃)	lb.	636,896	35,029	119,970	5,399	—
Asbestos	tons	949,610	77,627,863	906,223	85,248,098	884,595
Feldspar	"	28,000	425,370	16,645	293,007	18,591
Iron oxides (ochre)	"	13,342	262,277	11,487	194,922	10,308
Magnesitic dolomite and brucite	"	—	2,437,773	—	2,715,266	—
Mica	tons	1,665	125,753	585	79,544	739
Natural mineral waters	Imp. gal.	322,800	146,521	309,125	165,593	309,285
Peat moss	tons	21,657	436,833	19,609	405,852	22,021
Peat fuel	"	20	800	—	—	—
Phosphate	"	—	—	—	—	—
Quartz	"	220,698	579,633	189,856	583,644	165,706
Soapstone and talc	"	11,148	123,084	12,578	130,901	14,098
Sulphur	"	161,489	895,253	N.A.	1,567,953	169,766
Titanium dioxide	"	14,123	738,577	30,805	1,238,103	100,527
Structural materials:						
Cement	bbl.	7,055,164	16,633,164	7,272,241	18,838,458	7,400,912
Clay products	—	—	6,776,430	—	6,645,387	—
Lime	tons	460,842	4,612,387	408,522	4,056,100	424,305
Sand and gravel	"	31,297,949	10,616,701	32,060,910	12,744,630	26,694,125
Stone	"	7,177,263	12,811,218	7,830,976	15,282,133	7,754,248
Total	—	...	255,530,071	...	270,483,962	...
						251,881,781

1. There is also in this province an important production of aluminum from imported ores.
 2. Included in magnesitic dolomite, brucite.

TABLE 10. Mineral Production of Ontario, 1951-1953

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:		\$		\$		\$
Bismuth	lb.	15,000	35,400	—	—	—
Calcium	—	—	—	—	—	—
Cobalt ²	lb.	951,607	1,999,612	1,421,923	3,226,903	1,602,545
Copper	"	257,616,806	70,861,789	250,685,175	70,973,056	261,164,653
Gold	troy oz.	2,482,979	90,160,776	2,513,691	86,144,190	2,182,437
Iron ore	short tons	2,841,984	21,205,152	2,717,490	19,632,551	2,832,090
Lead	lb.	—	—	1,803,455	291,979	656,755
Magnesium	—	—	3,618,219	—	4,812,368	5,295,840
Nickel	lb.	275,806,272	151,289,994	281,117,072	151,349,438	287,385,777
Palladium, rhodium, etc.	troy oz.	164,905	7,950,107	157,407	7,559,109	166,018
Platinum	—	153,461	14,540,430	122,315	10,916,614	137,545
Selenium	lb.	82,409	267,005	81,578	265,129	92,698
Silver	troy oz.	4,520,094	4,273,749	6,491,124	5,421,387	5,154,819
Tellurium	lb.	6,301	11,594	5,710	9,707	4,525
Tungsten concentrates (WO ₃)	lb.	—	—	50,734	164,866	48,780
Zinc	lb.	—	—	744,920	130,063	171,787

1. Included with magnesium.
 2. Exclusive of metal in ore placed on government stockpile at Deloro, Ontario, but includes any metal reshipped from stockpile.

TABLE 10. Mineral Production of Ontario, 1951-1953 - Concluded

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
Non-metallics:						
Arsenic (As_2O_3)	lb.	1,716,466 ³	94,406	1,588,381	71,477 ³	1,403,740 ³
Asbestos	tons	26,588	3,856,482	23,096	3,983,815	23,529
Diatomite (earth)	"					100
Feldspar	"	12,749	125,727	3,622	37,628	2,655
Fluorspar	"	5,286	233,398	904	38,465	876
Graphite	"	1,569	231,167	2,040	255,732	3,466
Gypsum	"	262,581	672,276	278,992	1,060,429	334,495
Mica	"	512	314,435	266	111,561	233
Natural mineral waters		2,500	450	2,370	440	300
Natural gas	M cu. ft.	8,442,842	3,377,137	8,302,190	3,320,876	9,708,969
Nepheline syenite	tons	81,108	1,114,943	82,681	1,111,950	113,345
Peat (fuel)	"	30	300	32	320	-
Peat (moss)	"	1,804	72,557	1,939	69,013	1,319
Petroleum	bbl.	197,171	677,905	191,814	641,037	299,685
Phosphate	tons	6	94	-	-	-
Quartz ¹	"	1,545,137	1,497,811	1,429,807	1,506,532	1,450,770
Salt	"	772,585	4,789,990	757,025	4,401,780	749,046
Silica brick	M	1,217	204,831	1,161	246,108	1,467
Sulphur ²	tons	15,605	156,050	N/A	183,460	371,300
Talc	"	13,698	160,540	12,454	149,711	13,310
						125,209
Structural materials:						
Cement	bbl.	5,438,101	12,494,677	5,577,025	14,142,060	7,078,181
Clay products	-	10,484,341	..	11,975,200	..	18,497,744
Lime	tons	619,769	6,921,916	622,279	6,921,062	659,062
Sand and gravel	"	39,218,058	19,905,293	43,423,737	23,240,203	43,658,099
Stone	"	8,080,087	10,396,650	8,217,411	10,303,173	8,818,886
Total	-	...	444,667,203	...	444,669,412	...
						465,877,093

1. Includes low-grade silica sand for fluxing purposes.
 2. Sulphur content of pyrites shipped and estimated sulphur salvaged from smelter gases.
 3. Includes some arsenic recovered from foreign ores.

TABLE 11. Mineral Production of Manitoba, 1951-1953

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
Metallics:						
Cadmium	lb.	47,333	126,852	25,229	55,504	30,987
Copper	"	31,677,863	8,774,768	18,748,439	5,350,804	18,822,890
Gold	troy oz.	163,914	6,040,231	141,947	4,864,524	131,309
Selenium	lb.	25,955	84,094	18,852	51,519	10,892
Silver	troy oz.	613,141	579,725	412,149	344,227	429,508
Tellurium	lb.	505	929	83	107	33
Zinc	"	30,221,016	6,013,982	30,185,026	5,270,306	31,532,737
						3,771,315
Non-metallics:						
Gypsum	tons	134,704	509,278	130,934	473,841	163,313
Peat moss	"	1,236	44,098	3,042	158,094	2,085
Petroleum, crude	bbl.	10,698	26,478	104,626	229,299	653,514
Salt	tons	16,778	358,391	18,113	403,699	18,078
						420,631
Structural materials:						
Cement	bbl.	1,539,612	4,108,752	1,612,795	4,836,604	1,614,301
Clay products	-	..	673,698	..	575,088	568,477
Lime	tons	53,024	778,490	46,973	750,009	50,981
Sand and gravel	"	2,832,110	929,989	3,763,418	1,253,642	4,686,323
Stone	"	383,134	996,239	240,815	687,778	377,819
Total	-	...	30,045,992	...	25,105,045	...
						25,264,112

TABLE 12. Mineral Production of Saskatchewan, 1951-1953

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:		\$		\$		\$
Cadmium.....	lb.	99,835	267,558	89,123	196,070	127,010
Copper	"	63,250,444	17,520,373	60,687,296	17,320,154	61,176,869
Gold	troy oz.	110,216	4,061,460	93,585	3,207,158	88,327
Selenium.....	lb.	108,664	352,071	65,770	213,753	45,223
Silver	troy oz.	1,454,341	1,375,079	1,179,514	985,130	1,257,622
Tellurium	lb.	2,107	3,877	262	445	136
Zinc	"	79,148,484	15,750,548	93,381,238	16,304,364	99,929,241
Non-metallitics:						
Coal	tons	2,223,318	4,361,677	2,083,465	4,004,308	2,021,304
Natural gas	M cu. ft.	860,082	86,008	1,007,491	100,749	1,422,128
Petroleum, crude	bbl.	1,249,281	1,659,045	1,696,505	2,256,352	2,797,888
Quartz ¹	"	120,769	67,631	143,164	50,107	152,786
Salt	"	28,192	653,130	33,540	780,000	35,100
Sodium sulphate	"	192,371	2,383,770	122,590	1,708,807	115,565
Structural materials:						
Clay products	—	...	616,655	...	711,778	...
Sand and gravel	tons	2,951,813	1,874,071	3,544,602	1,657,919	4,770,368
Total	—	...	51,032,953	...	49,506,094	...
						48,081,970

1. Low-grade silicon sand for fluxing purposes.

TABLE 13. Mineral Production of Alberta, 1951-1953

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:		\$		\$		\$
Gold	fine oz.	97	3,574	111	3,804	65
Silver	"	9	8	10	8	6
Non-metallitics:						
Bituminous sands	tons	—	1	—	1	1
Coal	"	7,659,329	40,981,581	7,194,757	39,908,362	5,917,474
Natural gas	M cu. ft.	69,876,831	3,493,842	79,149,895	5,936,242	89,651,605
Petroleum	bbl.	45,915,384	113,870,152	58,915,723	139,512,432	76,816,383
Quartz ²	tons	—	—	373	7,446	—
Salt.....	"	19,718	472,562	24,380	614,522	24,885
Structural materials:						
Cement	bbl.	1,649,909	3,898,043	1,886,544	4,765,686	3,098,664
Clay products	—	...	1,787,731	...	1,964,618	...
Lime	tons	30,670	395,452	30,006	415,348	29,263
Sand and gravel	"	4,289,021	3,194,446	5,066,403	3,590,687	7,651,261
Stone	"	13,310	46,820	22,773	92,499	18,833
Total	—	...	168,144,211	...	196,811,654	...
						248,863,295

1. Included with petroleum refining; no crude sands sold.

2. Grinding pebbles.

TABLE 14. Mineral Production of British Columbia, 1951-1953

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:		\$		\$		\$
Antimony	lb.	6,702,164	1,436,713	2,330,900	601,483	1,488,105
Bismuth	"	191,471	451,872	142,246	320,053	71,298
Cadmium	"	1,113,300	2,983,644	704,745	1,550,439	721,862
Copper	"	43,863,962	12,110,779	41,571,132	11,828,103	48,295,970
Gold	troy oz.	289,992	10,686,205	273,059	9,357,732	264,976
Indium	"	582	1,368	404	909	6,752
Iron ore	tons	113,535	790,000	900,481	5,443,568	991,247
Lead	lb.	255,528,868	47,017,311	258,789,430	41,894,771	297,634,712
Palladium, rhodium, etc.	troy oz.	—	—	—	—	—
Platinum	"	22	2,085	2	178	—
Silver	"	8,342,414	7,887,752	7,784,964	6,502,002	9,308,874
Tin	lb.	346,718	494,073	212,113	253,581	1,092,228
Tungsten (WO_3)	"	—	—	1,434,641	4,307,879	2,395,544
Zinc	"	337,511,324	67,164,754	348,575,941	60,861,359	382,300,862
Non-metallics:						
Asbestos	tons	—	—	20	23,000	3,102
Arsenic (As_2O_3)	lb.	2	2	2	2	—
Barite	tons	1,248	16,224	848	13,408	2,878
Coal	"	1,739,412	9,698,179	1,644,250	9,909,720	1,443,006
Diatomite	"	8	223	12	240	—
Gypsum	"	105,908	263,072	92,702	241,443	145,470
Mica (schist)	tons	304	7,462	157	3,001	160
Peat moss	"	46,947	1,700,030	46,939	1,685,406	47,756
Perlite	"	—	—	—	—	1,112
Quartz	"	18,281	113,393	19,881	105,771	16,312
Sulphur ³	tons	194,696	2,069,482	N.A.	2,099,770	... 1,120
Soapstone, talc	—	—	—	—	—	—
Structural materials:						
Cement	bbl.	1,325,026	3,311,439	1,441,710	3,603,273	1,826,543
Clay products	—	...	1,213,329	...	1,183,195	...
Lime	tons	55,346	987,061	47,733	1,084,293	43,805
Sand and gravel	"	6,177,068	3,702,403	8,137,176	4,830,833	7,494,268
Stone	"	1,406,787	2,170,079	1,437,175	2,365,834	1,306,520
Total	—	...	176,278,932	...	170,071,244	...
						158,487,812

1. Tin content of concentrates.

2. Considerable arsenic is contained in auriferous quartz ores exported. However this is not paid for and data relating to its possible recovery are unobtainable.

3. Includes sulphur content of pyrites shipped and estimated sulphur contained in sulphuric acid and other products made from waste smelter gases.

TABLE 15. Mineral Production of the Northwest Territories and Yukon, 1951-1953

Product	1951		1952		1953	
	Quantity	Value	Quantity	Value	Quantity	Value
Northwest Territories		\$		\$		\$
Metallics:						
Copper	lb.	1,934	536	6,900	1,969	—
Gold	troy oz.	212,211	7,819,975	247,581	8,484,601	289,929
Lead	lb.	—	—	27,445	4,443	—
Pitchblende products	—	1	1	1	1	1
Silver	troy oz.	64,228	60,728	59,258	49,492	63,592
Tungsten (WO_3)	lb.	—	—	7,736	15,472	—
Non-metallics:						
Natural gas	M cu. ft.	19,333	7,621	24,847	9,608	26,109
Petroleum, crude	bbl.	227,449	399,887	314,217	379,160	316,689
Total	—	...	8,288,747	...	8,944,835	...
						10,300,230
Yukon						
Metallics:						
Cadmium	lb.	66,452	178,091	129,490	284,878	238,426
Gold	troy oz.	77,504	2,856,022	78,519	2,690,846	66,080
Lead	lb.	12,533,071	2,306,085	18,368,643	2,973,883	31,590,973
Silver	troy oz.	3,442,788	3,255,156	4,028,551	3,364,646	6,639,127
Tungsten (WO_3)	lb.	2,833	7,098	—	—	1,704
Zinc	"	5,678,999	1,130,121	11,070,178	1,932,853	18,027,139
Non-metallics:						
Coal	tons	3,696	60,597	8,442	139,345	10,611
Total	—	...	9,793,170	...	11,386,451	...
						14,738,562

1. Data not available for publication.

TABLE 16. Tonnage of Ore Mined and Rock Quarried in the Canadian Mining Industry, 1949-1953

	1949	1950	1951	1952	1953
Gold-quartz ores	15,999,866	16,984,524	16,548,264	16,496,218	15,247,337
Copper-gold-silver ores	8,245,402	8,758,607	7,380,966	7,773,341	7,438,500
Nickel-copper ores	10,923,823	10,777,859	12,885,445	14,380,684	15,004,102
Silver-cobalt ores	38,798	69,437	129,077	180,534	266,837
Silver-lead-zinc ores	3,915,405	4,826,992	6,317,545	6,759,454	7,539,882
Miscellaneous metals (iron ore, etc.)	4,208,410	4,498,459	5,138,856	6,757,253	8,934,549
Asbestos	8,218,045	12,210,780	12,623,529	12,989,320	13,912,839
Feldspar and nepheline syenite	123,785	133,845	232,092	100,663	173,934
Quartz, exclusive of sand (shipments)	1,212,562	952,093	1,259,791	1,274,196	1,107,999
Gypsum and anhydrite	3,157,114	3,780,211	3,928,377	3,553,917	3,839,040
Talc and soapstone	28,935	33,685	27,047	25,728	28,638
Iron oxides	22,443	20,622	20,505	20,048	24,388
Other non-metals	488,549	522,135	671,974	736,550	665,366
Stone, all kinds, quarries (exclusive of stone used for cement and lime)	13,928,039	18,087,064	18,676,706	18,726,196	19,849,017
Stone used for the manufacture of cement	4,140,900	4,119,216	4,246,501	4,513,625	5,330,778
Estimated rock for the manufacture of lime	1,737,508	1,928,127	2,164,298	2,131,563	2,163,427
Total (other than coal)	76,638,584	87,703,656	92,250,973	96,419,290	101,528,633

TABLE 17. Yearly Average Prices of Copper, Lead, Zinc and Silver, from 1934
(Copper, lead and zinc in U.S. cents per pound; silver, U.S. cents per ounce)
(From the American Bureau of Metal Statistics)

Year	Copper New York	Lead New York	Zinc	Silver New York	Year	Copper New York	Lead New York	Zinc St. Louis	Silver New York
	Yearly average	Yearly average	Yearly average	Yearly average ¹		Yearly average	Yearly average	Yearly average	Yearly average ¹
1934	8.428	3.860	4.158	47.973	1944	11.775	6.500	8.250	44.750
1935	8.649	4.065	4.328	64.273	1945	11.775	6.500	8.250	51.928
1936	9.474	4.710	4.901	45.087	1946	13.820	8.109	8.726	80.151
1937	13.167	6.009	6.519	44.883	1947	20.958	14.673	10.500	71.820
1938	10.000	4.739	4.610	43.225	1948	22.038	18.043	13.589	74.361
1939	10.965	5.053	5.110	39.082	1949	19.202	15.364	12.144	71.930
1940	11.296	5.179	6.335	34.773	1950	21.235	13.296	13.866	74.169
1941	11.797	5.793	7.474	34.783	1951	24.200	17.500	18.000	89.368
1942	11.775	6.481	8.250	38.333	1952	24.200	16.467	16.215	84.941
1943	11.775	6.500	8.250	44.750	1953	28.798	13.489	10.855	85.188

1. 1934-1949 for other than newly-mined domestic.

TABLE 18. Average Annual Metal Prices, in Canadian Dollars, 1934-1953

Year	Gold	Silver	Copper	Lead	Zinc	Year	Gold	Silver	Copper	Lead	Zinc
	Troy oz.	Troy oz.	Pound	Pound ¹	Pound ¹		Troy oz.	Troy oz.	Pound	Pound ²	Pound ²
1934	\$	\$	\$	\$	\$		\$	\$	\$	\$	\$
1934	34.50	0.475	0.0742	0.024	0.030	1944	38.50	0.430	0.120	0.045	0.043
1935	35.19	0.648	0.0780	0.031	0.031	1945	38.50	0.470	0.1255	0.050	0.0644
1936	35.03	0.451	0.0948	0.039	0.033	1946	36.75	0.8365	0.128	0.0675	0.0781
1937	34.99	0.449	0.131	0.051	0.0490	1947	35.00	0.72	0.2039	0.1387	0.1123
1938	35.17	0.435	0.0997	0.034	0.031	1948	35.00	0.75	0.2235	0.1804	0.1393
1939	36.14	0.405	0.101 ²	0.032	0.031	1949	36.00	0.7425	0.1997	0.158	0.1325
1940	38.50	0.382	0.101	0.034	0.034	1950	38.05	0.8082	0.2342	0.1445	0.1565
1941	38.50	0.3826	0.101	0.034	0.034	1951	36.85	0.9455	0.277	0.184	0.199
1942	38.50	0.4216	0.101	0.034	0.040	1952	34.27	0.8352	0.2854	0.1619	0.1746
1943	38.50	0.4525	0.1175	0.0375	0.040	1953	34.42	0.8401	0.2994	0.1293	0.1196

1. Based on New York; 1933-1942 based on London.

2. Based on London; prices controlled by Government 1939-1947. Based on New York 1947-1950. Montreal prices in 1951-1953

MINERAL STATISTICS

TABLE 19. Production of Leading Mineral Products, by Months, 1951-1953

No.		Asbestos	Cement	Clay products	Coal	Copper	Gold	Gypsum
		tons	barrels	\$	tons	pounds	ounces	tons
1951								
1	January	74,125	895,498	1,760,474	1,933,641	45,699,203	376,874	198,272
2	February	71,463	960,037	1,493,489	1,617,761	40,704,890	349,484	183,334
3	March	94,905	1,385,209	1,773,239	1,492,241	48,694,049	374,774	184,077
4	April	86,767	1,542,365	1,791,604	1,393,621	47,825,258	365,806	227,392
5	May	93,241	1,890,568	2,313,439	1,349,115	47,097,815	371,585	270,554
6	June	82,990	1,686,081	2,316,151	1,303,024	45,306,265	364,910	349,224
7	July	71,027	1,599,009	2,279,143	1,084,109	45,074,181	346,690	466,936
8	August	80,398	1,762,223	2,268,734	1,247,491	45,401,149	347,383	492,038
9	September	82,479	1,550,402	2,069,000	1,511,904	43,651,086	361,386	479,746
10	October	82,504	1,657,181	2,370,127	1,877,303	41,944,219	380,827	449,104
11	November	85,623	1,288,048	1,853,982	2,047,535	44,297,878	374,888	313,919
12	December	67,676	791,191	1,238,274	1,729,078	44,245,596	378,144	188,096
13	Total	973,198	17,007,812	23,527,156	18,586,823	539,941,589	4,392,751	3,802,692
1952								
14	January	76,287	857,398	1,395,093	1,980,838	44,863,580	353,573	146,482
15	February	69,036	1,184,013	1,505,150	1,568,384	40,844,987	351,926	161,862
16	March	72,059	1,507,239	1,692,888	1,446,258	44,841,702	364,973	175,606
17	April	81,301	1,584,070	1,542,925	1,278,160	44,105,322	363,375	190,377
18	May	83,358	2,017,682	2,273,633	1,282,386	45,393,242	366,169	292,691
19	June	78,250	1,745,018	2,415,881	1,200,327	41,447,232	359,812	459,036
20	July	39,611	1,877,806	2,433,420	1,182,695	39,601,686	374,037	448,565
21	August	76,659	1,661,071	2,248,694	956,126	42,032,871	371,826	469,775
22	September	85,986	1,673,582	2,590,307	1,457,179	43,211,315	382,177	426,546
23	October	89,405	1,757,796	2,668,156	1,797,434	42,216,445	403,532	384,691
24	November	81,493	1,603,792	2,247,157	1,658,885	42,680,543	388,546	236,019
25	December	65,894	1,051,071	1,948,224	1,770,330	44,636,172	391,779	199,711
26	Total	929,339	18,520,538	24,961,528	17,579,002	516,075,097	4,471,725	3,590,783
1953								
27	January	69,820	1,038,573	1,789,424	1,790,441	47,648,484	370,132	174,733
28	February	65,337	1,179,271	1,796,541	1,280,095	41,794,426	351,811	167,196
29	March	75,233	1,803,688	2,047,971	1,296,952	48,078,509	378,037	214,064
30	April	82,540	1,972,328	2,196,275	1,128,964	44,394,870	368,609	232,799
31	May	82,474	2,251,114	2,618,042	1,111,891	44,598,138	367,450	308,461
32	June	82,805	2,192,700	2,722,243	1,127,404	44,220,731	361,197	393,024
33	July	73,076	2,187,370	2,879,304	1,073,590	45,601,755	367,205	477,279
34	August	72,752	2,014,200	2,597,772	832,470	42,874,720	327,680	587,961
35	September	77,844	2,213,215	2,907,590	1,323,091	39,201,564	333,587	444,117
36	October	80,713	2,107,809	3,035,825	1,651,286	38,046,927	283,948	344,632
37	November	84,238	2,051,141	2,848,066	1,631,015	34,512,601	272,389	296,395
38	December	64,394	1,226,926	2,338,678	1,653,474	35,531,349	273,678	201,436
39	Total	911,226	22,238,335	29,777,731	15,900,673	506,504,074	4,055,723	3,841,457

TABLE 19. Production of Leading Mineral Products, by Months, 1951-1953

Iron ore	Lead	Lime	Natural gas	Nickel	Petroleum	Salt	Silver	Zinc	No.
tons	pounds	tons	M cu. ft.	pounds	barrels	tons	ounces	pounds	
44,367	32,277,995	98,231	9,035,144	21,985,444	2,942,977	77,583	2,023,846	53,411,889	1
31,305	24,060,231	91,351	7,790,807	19,402,702	2,752,279	74,397	1,630,537	52,395,150	2
36,495	25,325,922	103,820	8,142,685	23,352,783	2,465,597	75,140	1,789,375	54,011,835	3
160,622	20,174,516	104,036	5,976,931	21,205,809	2,424,661	71,579	1,498,505	53,226,546	4
524,327	22,307,213	111,018	5,130,420	25,055,554	4,446,704	80,247	1,882,891	53,721,174	5
652,249	27,890,169	104,174	4,892,893	23,778,056	4,717,187	80,693	2,431,662	56,269,967	6
717,929	22,087,824	103,132	4,373,403	23,656,491	4,898,360	88,683	1,831,554	57,578,261	7
693,530	27,861,563	109,035	4,869,688	24,608,539	5,281,214	83,581	2,038,937	62,655,104	8
596,759	23,856,110	101,044	5,457,208	23,363,012	4,882,591	80,214	1,926,070	58,409,213	9
615,101	30,177,685	115,055	6,974,631	23,516,513	4,829,341	87,196	2,017,221	60,024,296	10
350,176	29,642,748	105,281	7,652,880	23,140,438	4,050,977	91,094	2,019,253	59,923,204	11
257,650	31,200,775	94,864	9,163,977	22,740,931	3,923,646	74,118	2,035,974	60,597,716	12
4,680,510	316,462,751	1,241,041	79,460,667	275,806,272	47,615,534	964,525	23,125,825	682,224,335	13
163,941	30,543,503	100,340	10,201,550	23,624,961	3,979,624	83,076	1,803,848	60,447,513	14
85,817	22,144,324	96,411	8,410,390	21,437,828	3,409,520	80,281	2,022,126	55,709,729	15
98,260	31,045,306	98,715	8,654,030	24,762,825	3,622,015	73,423	2,085,986	58,462,064	16
206,468	29,095,248	99,047	6,866,351	24,635,085	3,918,377	73,433	2,521,864	59,681,832	17
570,257	27,539,240	96,164	6,159,023	24,825,070	5,587,190	77,163	2,274,279	64,218,579	18
946,665	22,344,695	93,700	5,626,924	25,126,029	5,399,466	86,196	1,907,137	64,169,239	19
902,912	22,919,590	93,312	5,427,515	20,852,376	5,833,134	80,306	1,831,089	69,405,290	20
702,914	27,211,110	90,739	5,542,445	23,949,484	5,999,214	82,656	2,214,798	65,168,449	21
681,090	28,976,168	103,099	5,904,985	21,964,946	5,947,922	80,729	1,817,435	60,404,041	22
521,928	33,281,962	105,959	7,102,107	23,545,478	6,145,986	99,089	1,657,118	64,155,203	23
442,037	25,769,461	100,838	8,705,522	22,762,699	5,578,575	81,000	2,421,617	57,504,841	24
278,560	36,813,284	97,462	10,085,623	23,630,291	5,816,299	74,551	2,464,930	64,277,375	25
5,271,849	337,683,891	1,175,786	88,686,465	281,117,072	61,237,322	971,903	25,222,227	743,604,155	26
220,982	38,134,135	98,589	11,921,886	25,033,291	5,287,552	80,125	2,441,898	65,341,691	27
226,523	33,476,444	88,659	9,245,963	21,323,949	4,767,993	69,206	2,240,200	66,923,239	28
176,529	28,305,349	101,372	9,589,577	24,535,699	5,000,214	72,412	2,470,626	73,952,371	29
328,193	36,979,309	103,961	8,511,119	23,681,904	5,389,750	74,219	3,064,215	66,817,512	30
762,846	31,980,751	108,694	7,058,043	23,219,384	6,133,857	84,561	2,514,756	66,731,448	31
740,421	30,343,800	106,332	6,011,037	23,393,455	6,809,331	79,691	2,496,972	68,090,612	32
869,373	23,810,792	102,246	5,516,752	23,602,073	8,064,582	76,025	2,360,535	68,236,003	33
787,860	27,427,595	90,640	5,745,640	23,823,121	8,298,877	82,518	2,018,388	65,807,563	34
800,405	28,370,267	101,708	6,688,895	24,061,281	8,235,354	85,977	2,061,302	67,318,731	35
700,717	32,153,995	113,350	8,153,476	24,938,447	7,237,219	83,594	2,087,659	69,505,152	36
582,314	38,338,728	112,369	10,254,017	25,528,254	7,596,487	83,291	2,206,688	61,548,430	37
313,655	38,090,423	100,840	12,289,518	24,244,919	8,097,681	83,309	2,336,098	63,250,543	38
6,509,818	387,411,588	1,228,760	100,985,923	287,385,777	80,898,897	954,928	28,299,335	803,523,295	39

MINERAL STATISTICS

TABLE 20. Principal Statistics of the Mineral Industry, by Industries, 1949-1953

Year	Number of active firms	Number of operating mines, oil and gas wells, quarries, gravel pits, etc.	Number of employees	Salaries and wages	Gross value of production f.o.b. shipping points	Cost of process supplies, purchased electricity and fuel, also freight and smelter charges	Net value of bullion, con- centrates, residues and other minerals shipped from the mines, smelters, brick and cement plants and quarries							
							\$	\$						
(a) Metal Mining Industries														
Alluvial gold mines														
1949	56	56	398	1,509,423	3,499,823	579,533	2,920,290							
1950	58	58	411	1,598,875	4,144,531	532,348	3,612,183							
1951	47	47	362	1,553,103	3,572,516	621,174	2,951,342							
1952	39	39	361	1,638,672	3,181,730	518,778	2,662,952							
1953	56	56	306	1,372,504	2,137,321	259,011	1,878,280							
Auriferous quartz mines														
1949	246	247	22,358	61,293,334	129,550,461	32,970,157	96,580,304							
1950	280	281	22,491	64,533,114	144,044,607	35,204,245	108,840,362							
1951	203	211	22,126	68,739,531	136,703,452	36,643,949	100,059,503							
1952	214	216	20,757	69,004,828	134,996,056	34,912,550	100,083,506							
1953	172	173	18,751	60,920,362	122,381,725	30,973,120	91,408,605							
Copper-gold-silver-mines														
1949	30	33	7,395	21,776,150	105,994,498	31,402,838	74,591,660							
1950	55	56	7,554	23,489,366	121,853,818	38,671,894	83,181,924							
1951	80	82	6,223	21,545,660	123,162,228	30,830,233	92,331,995							
1952	88	98	7,210	26,711,225	115,667,391	34,998,574	80,668,817							
1953	74	84	7,476	27,582,448	100,852,281	31,970,373	68,881,908							
Silver-cobalt mines														
1949	18	18	264	607,782	822,881	319,309	503,572							
1950	20	20	364	883,281	2,940,146	631,933	2,308,213							
1951	20	22	514	1,406,783	4,539,842	899,494	3,640,348							
1952	19	19	696	2,161,894	4,770,635	1,213,660	3,556,975							
1953	14	14	739	2,204,274	4,623,407	1,387,416	3,235,991							
Silver-lead-zinc mines														
1949	101	111	5,438	15,676,043	100,349,929	33,241,764	67,108,165							
1950	112	112	5,939	17,632,755	122,718,491	36,872,621	85,845,870							
1951	144	168	9,324	30,380,859	185,692,981	53,783,766	131,909,215							
1952	171	177	10,331	37,643,614	165,126,784	60,189,782	104,937,002							
1953	132	143	7,144	28,695,473	123,803,184	55,904,834	67,898,350							
Nickel-copper mines														
1949	7	11	7,053	22,517,855	52,945,060	6,981,288	45,963,772							
1950	5	10	7,713	25,313,838	53,942,530	7,914,476	46,028,054							
1951	5	11	9,831	34,974,971	64,352,735	10,182,069	54,170,666							
1952	17	22	10,820	42,151,955	71,740,630	12,046,000	59,694,630							
1953	24	32	11,511	47,596,673	81,173,678	16,199,809	64,973,869							
Miscellaneous metal mines														
1949	21	21	3,275	8,894,642	21,466,327	5,776,330	15,689,997							
1950	16	16	3,225	8,578,969	23,646,960	8,538,649	15,108,311							
1951	31	31	3,891	12,251,755	31,474,736	9,708,893	21,765,843							
1952	46	47	5,163	18,370,772	39,643,078	14,119,614	25,523,464							
1953	54	54	5,784	23,023,639	51,076,472	15,940,190	35,136,282							
Total Metal Mining														
1949	479	497	46,181	132,275,227	414,628,979	111,271,219	303,357,760							
1950	546	553	47,697	142,030,198	473,291,083	128,366,166	344,924,917							
1951	530	572	52,271	170,852,662	549,498,490	142,669,578	406,828,912							
1952	594	618	55,338	197,682,960	535,126,304	157,998,958	377,127,346							
1953	526	556	51,711	191,395,373	486,048,068	152,634,753	333,413,315							

1. See footnote at end of table.

Note. The number of producing metal mines was as follows: in 1949 - 265; in 1950 - 254; in 1951 - 245; in 1952 - 242; in 1953 - 220.

GENERAL REVIEW OF THE MINING INDUSTRY

A-21

TABLE 20. Principal Statistics of the Mineral Industry, by Industries, 1949-1953 — Continued

Year	Number of active firms	Number of operating mines, oil and gas wells, quarries, gravel pits, etc.	Number of employees	Salaries and wages	Gross value of production f.o.b. shipping points	Cost of process supplies, purchased electricity and fuel, also freight and smelter charges ¹	Net value of bullock, ore, concentrates, residues and other materials shipped from the mines, smelters, brick and cement plants and quarries							
							\$	\$						
(a) Metal Mining Industries — Concluded														
Smelting and refining														
1949	10	16	19,150	55,133,065	599,188,135	417,280,288	181,907,847							
1950	10	17	19,863	58,748,362	669,882,806	467,171,025	202,711,781							
1951	10	17	22,814	75,474,505	861,315,930	598,343,141	262,972,789							
1952	10	18	24,608	87,964,295	837,074,065	570,352,683	266,721,382							
1953	10	18	25,115	94,545,611	870,918,142	560,710,914	310,207,228							
Total Metals														
1949	489	513	65,331	187,408,294	See note at end of table	528,351,507	485,265,607							
1950	536	570	87,560	200,778,560		595,537,191	547,636,698							
1951	540	589	75,085	246,327,167		741,012,719	669,801,701							
1952	604	636	79,946	285,647,253		728,351,641	643,848,728							
1953	536	574	76,826	285,940,984		713,345,667	643,620,543							
(b) Fuels Industries														
Coal														
1949	296	328	24,230	61,204,632	110,915,121	15,496,981	95,418,140							
1950	297	363	23,418	60,938,980	110,140,399	14,464,916	95,675,483							
1951	268	315	22,647	63,127,966	109,038,835	16,547,467	92,491,368							
1952	223	271	21,754	66,028,224	111,026,149	18,959,228	92,066,921							
1953	209	241	19,847	59,350,290	102,721,875	18,146,436	84,575,439							
Natural gas														
1949	184	3,927	2,223	4,713,266	17,582,512	63,512	17,519,000							
1950	196	3,991	2,618	5,703,524	6,444,215	186,180	6,258,035							
1951	201	3,985	2,658	6,491,234	6,691,223	174,884	6,516,339							
1952	191	4,132	2,573	7,296,092	5,854,051	336,666	5,517,385							
1953	196	3,688	2,769	8,073,532	6,856,501	337,277	6,519,224							
Petroleum														
1949	273	3,166	2,142	6,304,601	61,091,128	985,707	60,105,421							
1950	260	3,849	2,417	7,848,539	84,595,945	1,714,101	82,881,844							
1951	288	4,761	3,185	11,518,781	116,365,729	3,210,493	113,155,238							
1952	271	5,833	3,702	14,610,821	139,596,851	4,413,948	135,182,903							
1953	352	7,506	4,150	16,430,201	204,481,012	5,467,929	199,013,083							
Total Fuels														
1949	753	7,421	28,595	72,222,499	189,588,761	16,546,200	173,042,561							
1950	753	8,203	28,433	74,491,043	201,180,559	16,365,197	184,815,362							
1951	757	9,061	28,490	81,137,981	232,095,787	19,932,844	212,162,943							
1952	685	10,236	28,029	87,933,137	256,477,051	23,709,842	232,767,209							
1953	757	11,435	26,766	83,834,023	314,039,388	23,951,642	290,107,746							
(c) Non-metal Mining Industries														
Asbestos														
1949	15	17	4,053	10,560,071	39,784,651	6,168,308	33,616,343							
1950	15	19	5,552	15,848,829	65,908,396	10,267,587	55,640,809							
1951	21	24	5,923	20,024,208	81,624,009	13,073,794	68,550,215							
1952	19	23	6,318	23,625,431	89,295,426	13,137,225	76,158,201							
1953	20	24	8,482	24,567,463	88,078,924	14,088,699	71,990,225							
Feldspar, quartz and nepheline syenite														
1949	31	31	442	946,268	2,650,035	465,253	2,184,782							
1950	36	36	476	1,056,129	3,021,555	467,968	2,553,587							
1951	33	33	532	1,402,294	3,926,523	741,571	3,184,952							
1952	34	34	426	1,251,943	3,704,425	660,344	3,044,081							
1953	33	33	431	1,358,308	4,010,191	635,037	3,375,154							

1. See footnote at end of table.

MINERAL STATISTICS

TABLE 20. Principal Statistics of the Mineral Industry, by Industries, 1949-1953 - Continued

Year	Number of active firms	Number of operating mines, oil and gas wells, quarries, gravel pits, etc.	Number of employees	Salaries and wages	Gross value of production f.o.b. shipping points	Cost of process supplies, purchased electricity and fuel, also freight and smelter charges ¹	Net value of bullion, ore, concentrates, residues and other minerals shipped from the mines, smelters, brick and cement plants and quarries						
							\$						
(c) Non-metal Mining Industries - Concluded													
Gypsum													
1949.....	9	14	925	2,226,703	5,425,045	1,481,874	3,943,171						
1950.....	8	13	1,004	2,412,698	6,710,564	1,775,427	4,935,137						
1951.....	8	13	1,018	2,648,803	5,881,546	2,160,584	3,720,962						
1952.....	9	14	1,061	2,979,091	6,538,074	2,361,683	4,176,391						
1953.....	9	14	954	2,891,848	7,399,884	2,059,208	5,340,676						
Iron oxides (ochre)													
1949.....	8	8	44	73,111	207,887	40,406	167,481						
1950.....	6	6	44	70,404	262,632	37,360	225,272						
1951.....	5	5	43	87,283	262,277	42,425	219,852						
1952.....	4	4	45	93,423	194,922	41,867	153,055						
1953.....	4	4	37	83,095	195,801	42,843	152,958						
Mica													
1949.....	34	34	96	115,667	108,458	20,516	87,942						
1950.....	26	26	100	136,727	252,611	47,388	205,323						
1951.....	31	31	138	182,033	447,650	32,728	414,933						
1952.....	28	28	115	168,176	194,106	34,814	159,163						
1953.....	44	44	105	152,284	161,128	26,351	134,777						
Peat													
1949.....	42	43	1,129	1,510,105	2,987,332	700,260	2,287,072						
1950.....	37	39	1,118	1,530,866	2,868,202	767,110	2,101,092						
1951.....	33	37	859	1,247,619	3,149,444	831,434	2,318,010						
1952.....	34	36	1,042	1,601,825	3,257,357	932,940	2,324,417						
1953.....	34	36	955	1,579,715	3,432,093	984,997	2,447,096						
Salt													
1949.....	11	12	698	1,565,210	6,621,483	1,904,760	4,716,723						
1950.....	9	13	643	1,521,593	8,100,113	2,180,610	5,919,503						
1951.....	7	12	689	1,633,222	9,201,265	2,569,376	6,631,889						
1952.....	7	12	651	1,907,219	9,056,079	3,060,246	5,995,833						
1953.....	7	12	676	1,957,318	8,405,789	2,826,033	5,579,756						
Talc and soapstone													
1949.....	3	3	59	105,736	320,793	64,252	256,541						
1950.....	5	6	58	116,547	364,635	66,775	297,860						
1951.....	3	3	50	109,522	305,338	62,955	242,383						
1952.....	3	3	54	117,144	303,118	74,194	228,924						
1953.....	3	3	54	132,934	308,497	63,315	245,182						
Miscellaneous non-metal mines													
1949.....	37	37	1,160	2,632,808	6,236,811	1,744,881	4,461,930						
1950.....	41	42	1,121	2,640,013	6,709,579	1,888,255	4,821,324						
1951.....	39	39	1,359	3,699,789	8,914,360	2,704,474	6,209,886						
1952.....	41	42	1,535	4,257,845	9,299,130	2,619,353	6,679,777						
1953.....	40	40	1,405	4,168,645	9,987,665	2,481,805	7,505,860						
Total Non-metal Mining Industries													
1949.....	190	199	8,606	19,744,679	64,342,495	12,620,510	31,721,986						
1950.....	183	200	10,116	25,333,806	94,198,287	17,498,480	76,699,807						
1951.....	180	197	10,611	31,034,773	113,712,412	22,219,341	91,493,071						
1952.....	179	196	11,247	36,002,097	121,842,637	22,922,666	98,919,971						
1953.....	194	210	11,099	36,891,610	119,979,972	23,208,288	96,771,684						

TABLE 20. Principal Statistics of the Mineral Industry, by Industries, 1949-1953 — Concluded

Year	Number of active firms	Number of operating mines, oil and gas wells, quarries, gravel pits, etc.	Number of employees	Salaries and wages	Gross value of production f.o.b. shipping points	Cost of process supplies, purchased electricity and fuel, also freight and smelter charges ¹	Net value of bullion, ore, concentrates, residues and other minerals shipped from the mines, smelters, brick and cement plants and quarries
				\$	\$	\$	\$
(d) Clay Products and Other Structural Materials							
Clay products							
1949	114	124	3,603	7,924,841	17,981,709	3,904,967	14,076,742
1950	122	134	3,663	8,583,912	21,790,888	4,655,254	17,135,634
1951	118	129	3,737	9,731,657	23,527,656	5,208,555	18,319,101
1952	120	133	3,568	9,812,214	24,961,528	5,116,848	19,844,680
1953	113	125	3,719	10,833,628	29,777,731	5,642,817	24,134,914
Cement							
1949	3	8	1,721	4,754,611	35,065,152	13,987,830	21,077,322
1950	3	8	1,781	5,235,735	38,200,513	15,109,409	23,091,104
1951	4	10	1,931	6,242,900	43,023,845	16,392,344	26,631,501
1952	5	11	2,239	7,849,057	51,029,930	18,365,676	32,664,254
1953	5	11	2,391	8,873,694	62,227,924	21,799,652	40,428,272
Lime							
1949	38	42	1,060	2,485,601	11,796,002	3,572,730	8,223,272
1950	37	43	1,133	2,760,960	12,826,921	4,052,688	8,774,233
1951	38	44	1,096	3,053,802	14,670,197	4,279,967	10,390,230
1952	35	42	1,005	3,145,246	14,219,453	4,435,054	9,784,399
1953	34	42	1,057	3,278,434	15,209,107	4,608,887	10,600,220
Sand and gravel							
1949	1,789	6,952	3,863	7,491,081	31,181,541	1,500,164	29,681,377
1950	1,842	7,348	4,120	8,712,440	36,434,759	1,907,445	34,527,314
1951	1,889	7,591	4,060	10,414,559	44,627,559	2,309,809	42,317,750
1952	1,901	8,210	4,185	12,354,505	51,339,043	2,673,245	48,665,798
1953	1,872	7,623	4,377	13,253,953	53,485,401	3,526,252	49,959,149
Stone							
1949	451	549	3,728	7,615,572	20,528,073	3,399,603	17,128,470
1950	457	589	3,562	7,548,241	25,895,357	3,614,585	22,280,772
1951	435	536	3,861	9,218,694	28,649,768	4,677,322	23,972,446
1952	419	493	3,897	10,230,640	30,835,356	4,876,076	25,959,280
1953	429	488	3,803	10,139,192	30,613,051	4,688,334	25,924,717
Total Clay Products and Other Structural Materials							
1949	2,395	7,675	13,975	30,271,706	116,552,477	26,365,294	90,187,183
1950	2,461	8,122	14,259	32,841,288	135,148,438	29,339,381	105,809,057
1951	2,484	8,310	14,685	38,661,612	154,499,025	32,867,997	121,631,028
1952	2,480	8,889	14,894	43,391,662	172,385,310	35,466,899	136,918,411
1953	2,453	8,289	15,347	46,378,901	191,313,214	40,265,942	151,047,272
GRAND TOTAL OF ALL INDUSTRIES							
1949	3,827	15,808	116,507	309,647,178		584,083,511	800,217,336
1950	3,933	17,095	120,388	333,444,697	See note below	658,740,249	914,960,924
1951	3,961	18,157	128,871	397,161,533		816,032,901	1,095,088,743
1952	3,948	19,957	134,116	452,976,151		810,451,048	1,112,454,319
1953	3,940	20,508	130,038	453,065,518		800,771,539	1,181,547,115

Note. In this table the compilations are on an industry basis, and the gross value of production, except for non-ferrous smelting and refining, is computed on the basis of values f.o.b. mines or shipping points. For non-metals, fuels and structural materials there are only small differences between the totals made up on the industry basis and the totals prepared on a commodity basis as recorded in Tables 1 to 14 of this report; the cost of containers is included in the industry figures and there are some minor discrepancies because of methods of compilation. For the metals the difference between the two sets of figures is much greater, principally because in the commodity compilations (Tables 1 to 14) the output is measured at the smelter stage.

Because of the inclusion of figures for the non-ferrous smelting and refining industry there would be considerable duplication in the overall gross value of production. Excluding smelters and refineries, the gross value of production for the mineral industries was as follows: in 1949 — \$783,112,712; in 1950 — \$903,818,367; in 1951 — \$1,049,805,714; in 1952 — \$1,085,831,302; in 1953 — \$1,111,400,642.

MINERAL STATISTICS

TABLE 21. Principal Statistics of the Mineral Industry, by Provinces, 1949-1953

Year	Number of operating mines, oil and gas wells, quarries, gravel pits, etc.	Number of employees	Salaries and wages	Cost of process supplies, purchased electricity and fuel, also freight and smelter charges ¹	Net value of bullion, etc., concentrates, residues and other minerals shipped from the mines, smelters, brick and cement plants and quarries
					\$
Newfoundland					
1949.....	810	3,807	3,926,150	7,056,847	17,471,590
1950.....	880	3,558	7,763,217	7,784,138	20,162,905
1951.....	769	4,114	10,984,035	8,781,988	25,331,153
1952.....	783	4,585	13,835,288	9,161,361	20,900,527
1953.....	903	4,541	15,567,726	9,197,691	22,003,003
Nova Scotia					
1949.....	664	13,557	32,727,764	9,266,391	47,125,183
1950.....	663	13,364	34,698,277	9,633,894	50,160,271
1951.....	615	13,799	37,388,122	10,963,266	49,170,075
1952.....	621	13,578	40,857,352	13,583,087	51,711,623
1953.....	540	13,037	39,236,701	15,676,633	53,075,567
New Brunswick					
1949.....	399	1,745	3,310,220	1,114,265	6,073,542
1950.....	435	1,804	3,631,388	1,247,322	11,567,031
1951.....	383	1,526	3,283,050	1,530,021	8,086,267
1952.....	379	1,596	4,096,170	2,311,389	9,165,221
1953.....	383	1,755	4,545,645	2,675,310	9,276,970
Quebec					
1949.....	3,721	26,471	66,633,847	204,633,051	183,199,468
1950.....	3,935	27,909	74,652,149	249,645,062	237,957,690
1951.....	4,288	30,349	92,213,392	294,306,681	270,477,503
1952.....	4,867	33,010	108,515,942	288,929,982	299,378,307
1953.....	4,059	33,095	113,001,528	309,922,593	298,136,878
Ontario					
1949.....	6,508	36,980	103,684,179	184,481,852	263,605,255
1950.....	6,719	39,549	114,370,430	199,588,152	298,002,994
1951.....	6,832	43,451	138,056,626	246,976,014	365,526,388
1952.....	6,870	44,172	154,267,119	256,779,927	360,214,198
1953.....	6,436	44,427	159,013,933	276,293,160	380,609,197
Manitoba					
1949.....	170	2,648	7,558,052	17,543,482	19,670,622
1950.....	168	2,776	8,569,746	22,220,350	23,499,082
1951.....	218	2,632	9,091,188	23,795,085	23,181,449
1952.....	274	3,336	12,946,522	17,040,774	16,986,904
1953.....	321	2,793	10,794,413	14,215,125	17,757,044
Saskatchewan					
1949.....	451	3,079	9,404,837	33,732,987	33,809,447
1950.....	524	2,729	8,605,454	25,582,035	29,834,220
1951.....	517	2,930	10,891,010	38,256,009	42,577,100
1952.....	761	2,113	8,024,308	29,835,969	40,505,709
1953.....	1,197	2,955	11,346,088	32,927,613	36,416,822

Note. Plants in the provinces do not add to Canada total, owing to the fact that a plant located on the Manitoba-Saskatchewan boundary is counted but once.

TABLE 21. Principal Statistics of the Mineral Industry, by Provinces, 1949-1953 — Concluded

Year	Number of operating mines, oil and gas wells, quarries, gravel pits, etc.	Number of employees	Salaries and wages	Cost of process supplies, purchased electricity and fuel, also freight and smelter charges ¹	Net value of bullion, ore, concentrates, residues and other minerals shipped from the mines, smelters, brick and cement plants and quarries
					\$
Alberta					
1949	1,865	12,260	32,180,770	8,925,833	111,162,841
1950	2,626	12,135	32,755,745	8,876,175	127,271,937
1951	3,493	12,198	37,095,311	11,097,043	156,633,663
1952	4,387	12,107	39,677,562	13,366,664	177,256,475
1953	5,598	11,313	37,555,287	13,447,286	236,186,969
British Columbia					
1949	1,136	14,632	40,465,801	114,840,330	108,944,255
1950	1,044	15,076	42,562,240	130,731,298	102,530,283
1951	981	16,273	51,117,166	176,552,011	140,575,198
1952	956	17,820	62,223,703	174,312,254	121,282,853
1953	1,008	14,488	53,928,687	120,727,933	111,129,794
Northwest Territories					
1949	76	826	2,694,496	1,208,929	5,582,240 ²
1950	80	884	3,249,770	1,645,321	6,377,212 ²
1951	35	904	3,822,078	1,800,882	6,466,033 ²
1952	37	959	4,106,791	2,092,059	6,736,867 ²
1953	41	791	3,686,321	1,634,300	8,675,331 ²
Yukon					
1949	8	502	2,061,062	1,279,544	3,572,883
1950	22	604	2,586,281	1,786,502	7,597,298
1951	26	695	3,219,555	1,973,301	7,063,914
1952	24	840	4,425,394	3,037,582	8,315,635
1953	22	843	4,389,189	4,053,895	8,279,670
Canada					
1949	15,808	116,507	309,647,178	584,083,311	800,217,336
1950	17,095	120,388	333,444,697	658,740,249	914,960,924
1951	18,157	128,871	397,161,533	816,032,901	1,095,088,743
1952	19,958	134,116	452,976,151	810,451,048	1,112,454,319
1953	20,508	130,038	453,065,518	800,771,539	1,181,547,245

¹. Includes fuel and electricity used for metallurgical purposes.². Data on pitchblende not included.

Note. Plants in the provinces do not add to Canada total, owing to the fact that a plant located on the Manitoba-Saskatchewan boundary is counted but once.

TABLE 22. Employees, Salaries and Wages, in the Mineral Industry, by Industries, 1953

Industry	Average number of employees						Total number of man-hours worked ²	Salaries and wages		
	Office and administrative		Workmen		Total ¹	Office and administrative		Workmen	Total	
	Male	Female	Male	Female		\$	\$	\$	\$	
Metal mining:										
Alluvial gold.....	4	3	290	9	306	856,399	46,395	1,326,109	1,372,504	
Auriferous quartz.....	1,754	182	16,743	72	18,751	42,454,069	8,789,624	52,130,738	60,920,362	
Copper-gold-silver.....	968	162	6,274	72	7,476	16,367,628	5,188,215	22,394,233	27,582,448	
Silver-cobalt.....	81	9	644	5	739	1,554,891	286,506	1,917,768	2,204,274	
Silver-lead-zinc.....	1,023	86	5,948	87	7,144	16,229,164	5,263,075	23,432,398	28,695,473	
Nickel-copper.....	879	34	10,588	10	11,511	22,788,272	5,235,335	42,361,338	47,596,673	
Miscellaneous metals.....	593	74	5,076	41	5,784	13,230,772	3,042,167	19,981,472	23,023,639	
Smelting and refining.....	3,558	568	20,942	49	25,115	55,971,128	17,530,010	77,015,601	94,545,611	
Fuels:										
Coal.....	1,630	46	18,171	—	19,847	36,321,832	5,719,249	53,631,041	59,350,290	
Natural gas.....	449	271	2,016	33	2,769	6,079,939	2,129,758	5,943,774	8,073,532	
Petroleum.....	784	161	3,153	52	4,150	10,506,225	3,875,318	12,554,883	16,430,201	
Non-metallics:										
Asbestos.....	761	109	5,582	30	6,482	13,934,305	3,766,891	20,800,572	24,567,463	
feldspar and quartz.....	57	8	365	1	431	936,964	328,208	1,030,100	1,358,308	
Gypsum.....	69	7	877	1	954	2,278,767	289,279	2,602,569	2,891,848	
Iron oxides.....	1	1	35	—	37	73,008	6,273	76,822	83,095	
Mica.....	3	2	89	31	105	205,419	8,396	143,888	152,284	
Peat.....	33	13	867	42	955	1,600,087	170,184	1,409,531	1,579,715	
Salt.....	103	24	501	48	676	1,379,682	409,851	1,547,467	1,957,318	
Talc and soapstone.....	5	1	48	—	54	138,913	23,221	109,713	132,934	
Miscellaneous.....	126	20	1,253	6	1,405	3,110,359	543,105	3,625,540	4,168,645	
Structural materials:										
Cement.....	139	17	2,232	3	2,391	5,342,651	679,279	8,194,415	8,873,694	
Clay products.....	206	36	3,382	95	3,719	9,022,951	966,902	9,866,726	10,833,628	
Lime.....	81	15	960	1	1,057	2,657,981	383,468	2,894,966	3,278,434	
Sand and gravel.....	274	67	4,020	16	4,377	11,852,130	1,096,013	12,157,940	13,253,953	
Stone.....	287	31	3,460	5	3,803	9,140,090	1,054,617	9,084,575	10,139,192	
Total	13,868	1,945	113,516	709	130,038	284,033,626	66,831,339	386,234,179	453,065,518	

1. Data are not inclusive of all individuals or syndicates engaged in prospecting or general exploration.

2. Includes office and administrative employees as well as workmen.

TABLE 23. Employees, Salaries and Wages, in the Mineral Industry, by Provinces, 1953

Province	Average number of employees						Total number of man-hours worked	Salaries and wages		
	Office and administrative		Workmen		Total	Office and administrative		Workmen	Total	
	Male	Female	Male	Female		\$	\$	\$	\$	
Newfoundland										
Newfoundland.....	333	48	4,132	28	4,541	10,754,790	1,625,669	13,942,057	15,567,726	
Nova Scotia	1,008	20	11,988	21	13,037	26,246,625	3,199,517	36,037,184	39,236,701	
New Brunswick	90	19	1,613	33	1,755	3,834,190	397,194	4,148,451	4,545,645	
Quebec	3,711	506	28,777	101	33,095	78,685,290	17,353,226	95,648,302	113,001,528	
Ontario	4,247	679	39,337	164	44,427	94,447,132	22,431,584	136,582,349	159,013,933	
Manitoba	320	60	2,377	36	2,793	6,488,192	1,731,649	9,062,764	10,794,413	
Saskatchewan	515	108	2,318	14	2,955	6,547,075	2,521,053	8,825,035	11,346,088	
Alberta	1,354	205	9,644	110	11,313	23,018,700	6,274,056	31,281,231	37,555,287	
British Columbia	2,073	280	11,952	183	14,488	29,546,947	10,076,828	43,851,859	53,928,687	
Northwest Territories	131	13	634	13	791	2,040,745	753,982	2,932,339	3,686,321	
Yukon	86	7	744	6	843	2,423,940	466,581	3,922,608	4,389,189	
Canada	13,868	1,945	113,516	709	130,038	284,033,626	66,831,339	386,234,179	453,065,518	

TABLE 24. Employees and Salaries and Wages in the Mineral Industry, 1939-1953

Year	Newfoundland		Nova Scotia		New Brunswick		Quebec		Ontario		Manitoba	
	No.	\$	No.	\$	No.	\$	No.	\$	No.	\$	No.	\$
1939	-	-	15,202	17,371,518	3,263	2,311,835	20,872	25,689,382	37,233	63,220,042	3,027	4,541,992
1940	-	-	14,934	19,285,662	2,240	1,939,160	21,726	29,025,418	38,774	66,395,845	3,145	5,107,054
1941	-	-	15,246	21,388,809	2,262	2,097,842	23,149	34,008,021	40,486	74,902,555	3,101	5,312,075
1942	-	-	14,394	22,169,053	1,718	1,855,798	27,235	42,901,445	36,866	72,868,161	2,512	4,600,171
1943	-	-	13,852	25,348,097	1,570	1,828,019	31,491	52,859,348	33,516	67,732,244	1,777	3,497,951
1944	-	-	13,538	30,815,335	1,631	2,240,478	27,973	49,498,836	33,194	64,766,975	1,732	3,369,320
1945	-	-	14,091	26,707,708	1,525	2,200,188	22,374	39,674,306	30,634	61,414,603	1,763	3,460,480
1946	-	-	14,560	27,572,966	1,600	2,363,247	22,799	41,793,277	31,244	63,895,634	2,242	4,446,790
1947	-	-	11,716	21,637,321	1,473	2,349,749	24,930	50,729,876	34,727	80,436,924	2,547	5,836,505
1948	-	-	13,957	32,491,530	1,639	3,039,036	27,809	64,395,934	36,079	95,046,248	2,736	7,156,024
1949	3,807	8,926,150	13,557	32,727,764	1,745	3,310,220	26,471	66,633,847	36,980	103,684,179	2,648	7,558,052
1950	3,558	7,763,217	13,364	34,698,277	1,804	3,631,388	27,909	74,652,149	39,549	114,370,430	2,776	8,569,746
1951	4,114	10,984,035	13,799	37,388,122	1,526	3,283,050	30,349	92,213,392	43,451	138,056,626	2,632	9,091,188
1952	4,585	13,835,288	13,578	40,857,352	1,596	4,096,170	33,010	108,515,942	44,172	154,267,119	3,336	12,946,522
1953	4,541	15,567,726	13,037	39,236,701	1,755	4,545,645	33,095	113,001,528	44,427	159,013,933	2,793	10,794,413
	Saskatchewan		Alberta		British Columbia		Northwest Territories		Yukon		Canada	
	No.	\$	No.	\$	No.	\$	No.	\$	No.	\$	No.	\$
1939	2,026	2,347,264	10,548	13,097,818	14,587	21,698,690	273	468,996	728	1,605,671	107,759	152,353,208
1940	1,961	2,573,878	10,628	14,535,789	14,420	23,227,719	441	880,414	617	1,518,747	108,886	164,489,686
1941	1,977	3,105,529	11,141	17,065,351	14,801	25,797,418	553	1,174,903	501	1,570,683	113,227	186,423,186
1942	2,450	4,401,181	11,435	19,628,105	14,323	27,166,996	701	1,737,398	398	1,221,952	112,032	198,550,260
1943	3,067	5,737,896	12,316	21,825,643	13,399	25,703,433	800	1,999,661	352	1,043,663	112,140	207,575,955
1944	2,652	5,328,535	11,582	23,389,050	11,871	23,118,465	566	1,798,896	139	482,424	104,878	204,808,314
1945	2,457	5,020,119	11,438	22,867,506	11,450	22,520,369	345	825,572	173	589,075	96,250	185,279,926
1946	2,957	5,672,652	11,476	23,641,650	11,562	25,109,066	510	1,346,718	246	906,691	99,196	196,748,691
1947	2,831	6,856,253	11,365	25,528,877	13,546	31,631,916	836	2,468,094	548	2,085,089	104,519	229,560,604
1948	2,881	8,007,116	11,951	29,085,041	14,384	38,033,557	826	2,721,296	593	2,025,800	112,855	282,001,582
1949	3,079	9,404,837	12,260	32,180,770	14,632	40,465,801	826	2,694,496	502	2,061,062	116,507	309,647,178
1950	2,729	8,605,454	12,135	32,755,745	15,076	42,562,240	884	3,249,770	604	2,586,281	120,388	333,444,697
1951	2,930	10,891,010	12,198	37,095,311	16,273	51,117,166	904	3,822,078	695	3,219,555	128,871	397,161,533
1952	2,113	8,024,308	12,107	39,677,562	17,820	62,223,703	959	4,106,791	840	4,425,394	134,116	452,976,151
1953	2,955	11,346,088	11,313	37,555,287	14,488	53,928,687	791	3,686,321	843	4,389,189	130,038	453,065,518

MINERAL STATISTICS

TABLE 25. Wage-earners on Surface, Underground and in Mill, 1953

Province	Metal mines			Fuels		Other ¹		
	Surface	Under-ground	Mill ²	Surface	Under-ground	Surface	Under-ground	Mill
Newfoundland	1,178	1,736	60	—	—	779	248	159
Nova Scotia	68	160	31	1,471	8,892	802	49	536
New Brunswick	54	24	—	489	422	279	6	372
Quebec	2,907	5,304	9,737	—	—	5,186	1,184	4,560
Ontario	6,317	15,643	10,210	1,145	—	2,943	183	3,060
Manitoba	713	590	366	28	—	294	21	401
Saskatchewan	511	380	551	511	6	121	—	252
Alberta	—	—	—	5,779	3,200	147	—	628
British Columbia	1,598	3,132	4,218	389	1,058	1,023	27	690
Northwest Territories ³	230	333	64	6	9	—	—	—
Yukon	383	278	74	20	—	—	—	—
Canada, 1953	13,959	27,580	25,311	9,838	13,587	11,574	1,718	10,658
Canada, 1952	15,689	28,941	25,185	9,990	14,897	11,882	1,794	10,079
Canada, 1951	13,862	27,869	23,431	9,985	15,482	11,484	1,680	9,925
Canada, 1950	12,622	26,168	20,883	9,420	16,089	11,283	1,486	9,545
Canada, 1949	12,648	25,080	20,410	9,156	16,358	11,051	1,080	8,490

1. Includes asbestos, salt, gypsum, stone quarries, brick plants, etc.

2. Includes non-ferrous smelters and refineries.

3. Exclusive of data on mining of pitchblende ores.

TABLE 26. Administration and Office Employees at Places in Canada, Except at Mine or Plant, 1953

Plant location	Average number of employees			Salaries and wages ⁴
	Male	Female	Total	
Newfoundland	34	8	42	142,813
Nova Scotia	1,325	107	1,432	4,508,810
New Brunswick	19	16	35	153,718
Quebec	299	108	407	1,547,126
Ontario	322	120	442	2,101,199
Manitoba	55	16	71	318,600
Saskatchewan	31	14	45	195,724
Alberta	2,389	825	3,214	11,365,228
British Columbia	130	45	175	740,847
Northwest Territories	1	—	1	2,944
Yukon	121	—	121	673,815
Canada	4,726	1,259	5,985	21,750,824

Data in Tables 26 and 27 not included elsewhere in this report.

TABLE 27. Administration and Office Employees at Places in Canada, Except at Mine or Plant, 1953

Industry	Average number of employees			Salaries and wages
	Male	Female	Total	
Metal mining	521	140	661	3,182,213
Smelting and refining ¹	3,819	969	4,788	16,428,150
Fuels	136	53	189	804,012
Non-metallic mining	250	97	347	1,336,439
Structural materials and clay products	4,726	1,259	5,985	21,750,824
Total				

1. Iron and steel plants are excluded.

TABLE 28. Fuel and Electricity Used in the Mineral Industry, by Industries, 1952

Industry	Fuel (coal, coke, gasoline, oil, wood, gas, etc.)	Electricity purchased		Total cost of purchased fuel and electricity	Electricity generated for own use	Electricity generated for sale
		k.w.h.	\$			
	\$			\$	k.w.h.	k.w.h.
Metal mining:						
Alluvial gold	33,298	—	—	33,298	1,555,223	—
Auriferous quartz	1,946,677	1,016,464,868	5,645,302	7,591,979	49,356,348	8,657,722
Copper-gold-silver	986,206	356,896,544	1,372,714	2,358,920	70,179,457	515,285
Silver-cobalt	131,430	18,937,626	148,279	279,709	—	—
Silver-lead-zinc	2,425,786	235,529,154	1,991,607	4,417,393	42,606,405	—
Nickel-copper	702,005	295,033,874	1,235,905	1,937,910	2,552,900	—
Miscellaneous metals	1,507,923	145,993,734	1,074,271	2,582,194	3,785,850	435,787
Smelting and refining	23,858,497	11,176,775,949	26,712,955	50,571,452	639,459,046	7,327,300
Total	31,591,822	13,245,631,749	38,181,033	69,772,855	808,095,229	16,936,094
Fuels:						
Coal	2,001,987	243,186,739	3,403,053	5,405,040	49,509,398	9,220,970
Natural gas	78,606	634,635	17,116	95,722	947,654	2,098,226
Petroleum	1,321,521	14,840,738	590,273	1,911,794	804,400	—
Total	3,402,114	258,662,112	4,010,442	7,412,556	51,261,452	11,319,196
Non-metal mining:						
Asbestos	1,334,699	263,677,918	1,758,260	3,092,959	281,400	—
Feldspar and quartz	175,750	8,212,616	90,767	266,517	23,371	—
Gypsum	328,921	14,959,524	188,938	517,859	935,980	—
Iron oxides	21,561	258,672	3,605	25,166	—	—
Mica	13,172	100,760	2,502	15,674	—	—
Peat	65,031	1,679,429	32,640	97,671	—	—
Salt	969,685	9,866,466	76,226	1,045,911	10,965,937	3,120
Talc and soapstone	6,551	1,165,433	17,879	24,430	—	—
Miscellaneous	1,100,878	20,769,873	227,051	1,327,929	10,739,642	89,937
Total	4,016,248	320,690,691	2,397,868	6,414,116	22,946,330	93,057
Structural materials:						
Cement	7,845,409	344,773,732	1,908,695	9,754,104	964,750	—
Clay products	3,831,871	33,104,065	444,221	4,276,092	419,844	—
Lime	3,258,031	20,674,862	162,234	3,420,265	3,381,000	—
Sand and gravel	1,711,274	15,892,750	205,333	1,916,607	4,500	—
Stone	1,267,474	53,722,331	755,125	2,022,599	1,148,000	—
Total	17,914,059	468,167,740	3,475,608	21,389,667	5,918,094	—
GRAND TOTAL	56,924,243	14,293,152,292	48,064,951	104,989,194	888,221,105	28,348,347

TABLE 29. Fuel and Electricity Used in the Mineral Industry, by Provinces, 1952

Province	Fuel (coal, coke, gasoline, oil, wood, gas, etc.)	Electricity purchased		Total cost of purchased fuel and electricity	Electricity generated for own use	Electricity generated for sale
		k.w.h.	\$			
	\$			\$	k.w.h.	k.w.h.
Newfoundland	729,608	54,358,495	544,104	1,273,712	4,385,288	29,937
Nova Scotia	1,175,856	159,856,361	2,279,668	3,455,524	19,787,218	7,697,580
New Brunswick	762,322	26,795,366	480,751	1,243,073	131,010	—
Quebec	15,552,076	10,741,219,150	28,246,248	43,798,324	24,426,375	8,372,753
Ontario	24,582,641	2,168,914,769	10,379,528	34,962,169	24,226,608	580,313
Manitoba	1,725,832	403,062,007	1,069,382	2,795,214	2,013,000	—
Saskatchewan	2,190,993	190,388,322	524,748	2,715,741	4,848,725	60,000
Alberta	3,022,270	116,057,351	1,647,497	4,669,767	20,276,747	2,661,861
British Columbia	6,270,444	379,016,037	2,361,086	8,631,530	760,995,539	1,894,690
Northwest Territories	364,577	52,235,234	496,025	860,602	21,278,234	7,051,213
Yukon	547,624	1,249,200	35,914	583,538	7,252,361	—
Canada	56,924,243	14,293,152,292	48,064,951	104,989,194	888,221,105	28,348,347

TABLE 30. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and Industries, 1953

No.	Industry	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Kerosene	Fuel oil
		Canadian	Imported							
		tons	tons	tons	tons	tons	tons	Imp. gal.	Imp. gal.	Imp. gal.
	Metal mining									
1	Alluvial gold	—	—	—	—	—	—	1,519	158	297,576
2		\$	—	—	—	—	—	1,146	74	72,349
3	Auriferous quartz	6,268	25,979	2,479	1,531	—	9	340,695	26,086	2,037,459
4		\$	97,628	414,376	55,131	29,409	—	147,047	6,486	500,840
5	Copper-gold-silver	9,416	3,103	72,938	221	—	74	298,174	6,822	2,819,191
6		\$	165,424	51,974	453,118	6,495	—	1,671	120,077	2,034
7	Silver-cobalt	1,015	1,120	—	93	—	—	58,400	135	47,862
8		\$	20,496	23,494	—	3,164	—	—	24,759	109
9	Silver-lead-zinc	31,302	3,768	274	2,751	401	23	517,723	57,092	3,477,773
10		\$	472,798	58,986	4,385	45,052	6,636	371	199,090	16,692
11	Nickel-copper	202	16,634	—	70	—	—	160,830	4,371	2,559,328
12		\$	3,437	197,096	—	1,605	—	—	59,763	1,211
13	Miscellaneous metals	11	1,206	10	56	—	58,410	461,214	270,114	4,793,966
14		\$	440	20,994	252	1,678	—	371,746	135,669	61,253
15	Smelting & refining	470,475	579,225	—	42,991	—	200,209	603,581	164,836	69,493,165
16		\$	5,444,077	6,529,852	—	491,393	—	4,079,708	186,371	45,366
17	Total	518,689	631,035	75,701	47,713	401	258,725	2,442,136	329,614	85,526,320
18		\$	6,204,300	7,296,772	512,886	578,796	6,636	4,453,715	873,922	133,225
	Mineral fuels									
19	Coal	175,381	—	75,477	—	19,037	240	963,177	6,326	1,456,183
20		\$	1,507,493	—	291,883	—	23,123	4,781	295,678	1,630
21	Natural gas	—	1	—	—	—	2	400,873	23,014	81,970
22		\$	—	30	—	—	—	139,605	5,374	15,123
23	Petroleum	123	—	3,340	—	104	—	1,772,475	17,523	4,248,740
24		\$	1,596	—	31,445	—	1,142	672,289	4,851	814,625
25	Total	175,504	1	78,817	—	19,141	242	3,136,525	46,863	5,786,893
26		\$	1,509,089	30	323,328	—	24,265	4,824	1,107,572	11,853
	Non-metal mining									
27	Asbestos	33,852	14,814	—	23,919	—	—	312,253	3,319	1,961,065
28		\$	609,664	202,544	—	365,821	—	—	134,062	839
29	Feldspar, quartz, nepheline ..	534	267	—	17	—	—	94,994	1,682	457,876
30		\$	5,690	3,228	—	531	—	—	33,829	397
31	Gypsum	184	4,029	—	—	—	—	152,134	1,766	711,891
32		\$	3,119	48,459	—	—	—	41,714	451	125,120
33	Iron oxides	—	1,009	—	—	—	—	7,245	100	3,400
34		\$	—	16,648	—	—	—	3,012	20	1,020
35	Mica	69	—	—	—	—	—	9,471	—	39,090
36		\$	1,446	—	—	—	—	—	3,854	—
37	Peat	—	1	3,224	—	—	—	96,533	400	16,288
38		\$	—	25	35,462	—	—	34,001	100	3,321
39	Salt	17,318	67,223	—	—	14,428	—	19,363	10	7,886
40		\$	163,182	592,908	—	—	62,796	—	5,601	3
41	Talc and soapstone	—	—	—	—	—	—	21,507	10	5,822
42		\$	—	—	—	—	—	8,116	3	1,833
43	Miscellaneous	6,977	542	90	10	26,462	—	376,668	2,051	6,087,880
44		\$	81,364	7,063	1,414	224	138,070	—	116,944	525
45	Total	58,934	87,885	3,314	23,946	40,890	—	1,090,168	9,338	9,291,198
46		\$	864,465	870,875	36,876	366,576	200,866	—	381,133	2,333
	Structural materials									
47	Clay products	28,828	164,439	852	6	502	1,356	626,591	5,739	11,938,859
48		\$	366,514	2,162,074	7,976	156	2,504	25,336	204,560	1,588
49	Cement	363,054	353,450	—	—	—	39	273,014	11,927	16,261,696
50		\$	3,553,974	3,485,822	—	—	—	1,531	83,417	3,123
51	Lime	34,208	153,010	3,940	4,813	6,762	29,321	166,835	140	655,125
52		\$	446,488	1,713,918	32,100	71,915	38,256	539,061	55,148	35
53	Sand and gravel	34	8,105	—	53	—	—	3,693,580	3,807	2,725,507
54		\$	880	89,187	—	1,151	—	1,362,544	870	452,803
55	Stone	3,446	2,408	170	19	—	118	1,694,836	3,517	1,381,764
56		\$	50,634	31,190	2,201	531	—	1,573	599,452	945
57	Total	429,570	681,412	4,962	4,891	7,264	30,843	6,454,856	25,130	32,962,951
58		\$	4,418,490	7,482,191	42,277	73,753	40,760	567,660	2,305,121	6,561
59	GRAND TOTAL, 1953	1,182,697	1,400,333	162,794	76,550	67,696	289,810	13,123,685	610,943	133,567,362
60		\$	12,996,344	15,649,868	915,367	1,019,125	272,527	5,026,199	4,067,748	153,979

TABLE 30. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and Industries, 1953

Wood	Gas			Other fuel	Electricity purchased		Total	Electricity generated		Process supplies	No.
	Liquefied petroleum	Manufactured	Natural		For power and light	For other purposes		For own use	For sale		
	M cu. ft.	M cu. ft.	M cu. ft.		\$	k.w.h.		k.w.h.	k.w.h.	\$	
cords											
88											
1,499	673	—	—	—	—	1,250 50	—	75,791	21,252,700 —	—	133,607 2
19,325	—					869,594,283 5,284,967	27,973,731 52,095	6,876,895	2,827,194 —	89,012 1,766	22,670,232 4
216,639	1,744	2,453	—	67,861	—	242,533,871 1,313,349	—	—	102,070,551 —	680,378 7,258	9,447,227 6
1,893	—					21,567,954 169,724	—	2,887,253	—	—	428,963 8
28,476	30,295	5,616	—	24,142	—	—	—	301,197	31,542,068 —	—	—
742	—	—	—	40,640	—	253,178,885 2,119,976	—	3,836,581	—	—	10,074,160 10
6,159	—	—	—	—	—	336,528,134 1,656,920	—	2,359,492	7,806,000 —	—	12,413,362 12
1,447	4,531	2,781	—	—	78	—	—	—	6,776,269 3,132,808	502,851 17,553	6,907,890 14
30,588	—					2,198,348,805 7,307,461	10,098,512,784 22,306,574	52,594,155	796,201,243 —	4,256,500 10,139	51,448,147 16
2,910	815	—	—	—	—	—	—	—	—	—	—
49,277	—					—	—	—	—	—	—
5,283	—	—	—	—	—	209,218,302 1,550,799	—	—	—	—	—
45,746	99	—	—	—	—	—	—	—	—	—	—
546	—					—	—	—	—	—	—
18,166	1,295	92,347	387	12,853	—	—	—	—	—	—	—
32,234	—					—	—	—	—	—	—
396,350	39,452	103,197	387	145,574	—	4,130,971,484 19,403,246	10,126,486,515 22,358,669	72,064,172	968,476,025 —	5,528,741 36,716	113,523,588 113,523,588
18	—					—	—	—	—	—	—
177	16,801	19,706	—	—	—	241,639,554 3,428,409	4,657,482 88,342	5,969,108	30,967,161 —	6,345,307 124,308	12,177,328 20
—	—	—	—	—	—	1,713,358 42,600	—	291,366	959,890 —	1,984,290 35,717	45,911 22
—	1,226	—	87,365	—	—	22,455,528 860,411	—	—	755,670 —	—	—
650	—					—	—	—	—	—	—
4,600	27,215	—	28,999	—	—	—	—	2,447,173	—	—	3,020,756 24
668	—					—	—	—	—	—	—
4,777	45,242	19,706	116,364	—	—	265,808,440 4,331,420	4,657,482 88,342	8,307,647	32,682,721 —	8,329,597 160,025	15,243,995 26
915	—					—	—	—	—	—	—
12,192	2,361	1,314	—	—	—	248,640,405 1,943,299	—	3,783,653	1,284,800 —	—	6,854,126 28
53	—	—	—	—	—	10,625,157 110,764	—	—	—	—	—
527	31	—	—	—	—	—	—	245,160	—	—	239,602 30
14	—	—	—	—	—	11,596,735 152,360	—	371,362	—	—	1,686,884 32
139	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	183,736 3,058	—	23,776	—	—	2,250 33
3	—	—	—	—	—	—	—	—	—	—	—
18	—	—	—	—	—	116,962 2,885	—	—	—	—	—
88	—	—	—	—	—	—	—	14,811	—	—	11,340 36
755	—	—	—	—	—	2,256,636 45,218	—	118,127	—	—	—
—	—	—	—	—	—	—	—	—	—	—	37
—	—	—	51,393	—	—	10,537,992 82,541	—	959,927	20,305,510 —	24,200 194	434,818 40
104	—	—	—	—	—	1,209,695 22,231	—	32,707	—	—	—
524	—	—	—	—	—	—	—	—	—	—	7,866 42
424	—		57,104	73	—	20,247,115 213,457	—	1,261,364	7,558,858 —	118,368 2,924	1,030,764 44
3,054	—		—	—	—	—	—	—	—	—	—
1,601	—		—	—	—	305,414,433 2,575,813	—	—	29,149,168 —	142,568 3,118	10,345,646 46
17,209	2,392	58,418	51,466	—	—	—	—	6,810,887	—	—	—
27,220	—					—	—	—	—	—	—
229,616	—	29,015	41,339	1,689	—	38,358,492 524,558	—	4,843,283	433,300 —	—	799,534 48
—	—	—	573,470	—	—	420,231,623 2,426,973	—	11,327,001	983,049 —	—	7,086,749 50
15,192	—					—	—	—	—	—	—
124,497	—	8,285	17,319	9,509	—	23,316,106 185,044	—	3,387,340	3,273,000 —	—	496,453 52
27	—	—	—	—	—	17,485,778 257,290	—	2,165,707	115,187 —	—	—
295	354	—	174	—	—	—	—	—	—	—	1,360,545 53
436	—					55,847,702 809,270	—	1,791,797	1,420,790 —	—	2,896,537 56
4,108	125	900	5,838	—	—	—	—	—	—	—	—
42,875	—					555,239,701 4,203,135	—	23,513,128	6,225,326 —	—	12,639,818 57
338,516	479	38,200	638,140	11,198	—	—	—	—	—	—	—
77,378	87,565	219,521	806,357	156,772	5,257,434,058 30,513,614	10,131,143,997 22,447,011	111,097,834	1,036,533,240 —	14,000,906 199,839	151,733,047 151,733,047	59 60

MINERAL STATISTICS

TABLE 31. Fuel and Electricity Used in the Mineral Industry in Canada, by Provinces, 1953

No.	Province	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Kerosene	Fuel oil
		Canadian	Imported							
		tons	tons	tons	tons	tons	tons	Imp. gal.	Imp. gal.	Imp. gal.
1	Newfoundland	7,662	—	—	31	—	39	354,583	28,137	3,588,564
2		\$ 157,872	—	950	—	1,531	144,517	8,143	413,617	
3	Nova Scotia	171,693	—	—	—	—	240	413,667	1,685	1,270,576
4		\$ 1,688,194	—	—	—	—	4,781	135,718	417	186,582
5	New Brunswick	37,943	—	—	—	—	—	334,661	1,688	1,070,445
6		\$ 449,866	—	—	—	—	—	102,443	580	164,288
7	Quebec	462,151	146,061	—	70,184	—	2,769	2,555,006	18,987	65,898,737
8		\$ 5,150,418	1,956,564	—	916,060	—	57,403	988,190	5,090	6,307,337
9	Ontario	6,366	1,253,928	46	6,324	—	285,982	4,759,418	218,765	31,919,253
10		\$ 102,836	13,687,618	1,240	101,229	—	4,947,220	1,677,053	58,946	4,235,123
11	Manitoba	38,959	20	2,634	—	21,190	720	297,659	1,564	12,069,378
12		\$ 519,645	519	56,568	—	101,052	14,045	111,010	471	834,628
13	Saskatchewan	115,639	31	1,129	—	46,060	36	503,614	2,786	3,249,164
14		\$ 1,492,696	791	12,184	—	164,464	807	137,478	793	370,539
15	Alberta	23,558	—	82,539	—	45	—	2,570,668	45,663	4,772,017
16		\$ 125,333	—	352,158	—	375	—	913,208	11,492	906,962
17	British Columbia	313,664	290	76,446	11	401	24	1,262,950	291,346	8,399,265
18		\$ 3,177,798	3,941	493,217	886	6,636	412	422,201	67,859	1,594,767
19	Northwest Territories	1	3	—	—	—	—	50,149	45	836,447
20		\$ 100	435	—	—	—	—	23,900	20	194,793
21	Yukon	5,061	—	—	—	—	—	21,310	279	493,510
22		\$ 131,586	—	—	—	—	—	12,030	168	180,156
23	Canada	1,182,697	1,400,333	162,794	76,550	67,696	289,810	13,123,685	610,945	133,567,362
24		\$ 12,996,344	15,649,868	915,367	1,019,125	272,527	5,026,199	4,667,748	153,979	15,388,785

TABLE 32. Power Equipment in Use or in Reserve, in the Mineral Industry in Canada, by Industries, 1953

No.	Industry	Ordinarily in use									
		Steam engines	Steam turbines	Diesel engines	Gasoline, gas & oil except Diesel engines	Hydraulic turbines, water-wheels	Electric motors run by purchased power	Total	Electric motors run by plant-generated power	Boilers	Motor-generators
	Metal mining										
1	Alluvial gold	No. h.p.	—	—	7	5	5	—	17	—	—
2		h.p.	—	—	815	46	15,600	—	16,461	—	—
3	Auriferous quartz	No. h.p.	—	—	29	11	8	10,908	10,956	488	6 523
4		h.p.	—	—	5,715	1,221	6,000	273,194	286,130	5,783	507 28,817
5	Copper-gold-silver	No. h.p.	—	3	22	15	7	3,675	3,722	1,293	7 154
6		h.p.	—	22,666	6,920	1,298	13,300	129,105	173,289	40,421	6,153 35,260
7	Silver-cobalt	No. h.p.	—	—	1	1	—	409	411	—	2
8		h.p.	—	—	180	3	—	5,468	5,651	—	100
9	Silver-lead-zinc	No. h.p.	—	1	54	30	8	3,699	3,792	374	2 117
10		h.p.	—	1,500	11,580	1,343	4,060	78,907	97,390	4,589	100 6,011
11	Nickel-copper	No. h.p.	—	—	2	—	2	2,581	2,585	304	— 120
12		h.p.	—	—	310	—	7,000	106,244	113,554	7,381	— 47,143
13	Miscellaneous metals	No. h.p.	1	—	67	55	—	1,344	1,467	230	— 25
14		h.p.	20	—	14,295	2,666	—	66,518	83,499	2,501	— 3,360
15	Smelting & refining	No. h.p.	21	9	—	—	—	19,000	19,030	306	23 172
16		h.p.	927	8,566	—	—	—	500,777	510,270	5,881	27,916 76,460
17	Total	No. h.p.	22	13	182	117	30	41,616	41,980	2,995	38 1,113
18		h.p.	947	32,732	39,815	6,577	45,960	1,160,213	1,286,244	66,556	34,676 197,151
	Mineral fuels										
19	Coal	No. h.p.	42	7	151	232	—	4,712	5,144	331	25 95
20		h.p.	17,730	8,700	14,610	10,315	—	161,235	212,590	5,440	5,625 9,380
21	Natural gas	No. h.p.	—	—	1	46	—	4	51	—	3
22		h.p.	—	—	180	1,539	—	10	1,729	—	130 186
23	Petroleum	No. h.p.	5	1	119	758	—	2,058	2,941	146	17 113
24		h.p.	325	5	25,336	22,364	—	17,485	65,515	454	4,676 1,143
25	Total	No. h.p.	47	8	271	1,036	—	6,774	8,136	477	45 222
26		h.p.	18,055	8,705	40,126	34,218	—	178,730	279,834	5,894	10,431 10,711

TABLE 31. Fuel and Electricity Used in the Mineral Industry in Canada, by Provinces, 1953

Wood	Gas			Other fuel	Electricity purchased		Total	Electricity generated		Process supplies	
	Liquefied petroleum	Manufactured	Natural		For power and light	For other purposes		For own use	For sale		
	M cu. ft.	M cu. ft.	M cu. ft.	\$	k.w.h.	k.w.h.	\$	k.w.h.	k.w.h.	\$	
cords										No.	
2,561	—	—	—	—	69,418,101	—	—	2,122,280	58,368	1	
21,976	—	1,345	—	—	623,063	—	1,373,014	—	2,288	2	
326	—	—	—	—	164,629,315	—	—	17,356,348	5,682,190	3	
2,557	98	23,809	—	—	2,431,658	—	4,473,814	—	73,956	4	
8,561	—	—	—	—	30,585,173	19,845	—	92,000	—	5	
84,232	—	5,035	2,932	—	565,519	441	1,375,329	—	—	6	
14,860	—	—	—	—	1,776,727,664	9,957,256,669	—	19,087,752	4,759,351	7	
161,435	32,729	102,630	—	—	9,310,089	21,811,543	46,850,801	—	27,892	8	
33,635	—	—	—	—	2,072,357,052	154,316,288	—	24,419,012	—	9	
302,966	2,251	69,250	11,215	94,183	11,111,511	530,708	36,933,349	—	—	10	
5,629	—	—	—	—	192,950,382	6,975,750	—	8,157,326	—	11	
73,043	2,952	—	—	—	709,503	10,464	2,433,900	—	—	12	
149	—	—	—	—	394,365,754	4,629,304	—	41,523,045	60,000	13	
2,225	—	—	45,940	—	789,092	87,608	3,104,617	—	636	14	
756	—	—	—	—	140,546,158	8,333	—	16,117,330	2,410,420	15	
5,664	43,105	—	71	736,702	1,961,632	293	5,056,995	—	80,231	16	
8,921	—	—	—	—	357,486,785	—	—	883,156,823	941,565	17	
84,994	3,619	17,381	—	73	2,141,518	—	8,026,578	—	13,290	18	
1,313	—	—	—	—	45,881,414	7,937,808	—	3,243,944	89,012	19	
17,764	—	—	9,495	—	514,617	5,954	767,078	—	1,766	20	
867	—	—	—	—	12,486,260	—	—	21,257,400	—	21	
20,196	2,811	—	—	—	355,412	—	702,359	—	904,589	22	
77,378	—	—	—	—	5,257,434,038	10,131,143,997	—	14,000,906	—	23	
777,052	87,565	219,521	806,357	156,772	30,513,614	22,447,011	111,097,834	—	199,859	151,753,047	24

TABLE 32. Power Equipment in Use or in Reserve, in the Mineral Industry in Canada, by Industries, 1953

In reserve or idle									
Steam engines	Steam turbines	Diesel engines	Gasoline, gas & oil except Diesel engines	Hydraulic turbines, water-wheels	Electric motors run by purchased power	Total	Electric motors run by plant-generated power	Boilers	Motor-generator sets
—	—	2	1	—	—	3	—	—	—
—	—	100	7	—	—	107	—	—	—
2	6	37	56	1	1,116	1,218	86	9	22
200	546	9,438	6,721	600	23,871	41,376	3,658	425	560
—	3	10	4	—	259	276	94	4	9
—	10,000	2,348	465	—	10,311	23,124	5,133	1,610	579
—	—	—	—	—	9	9	—	—	7
—	—	—	—	—	35	35	—	—	8
—	2	47	12	3	408	472	75	—	16
—	3,000	13,113	960	4,360	9,013	30,448	1,506	—	1,679
—	—	4	—	—	188	192	60	—	6
—	—	900	—	—	7,986	8,888	544	—	1,395
—	—	12	12	—	139	163	39	—	19
—	—	2,357	885	—	10,760	14,002	1,197	—	1,376
1	2	—	—	—	915	918	39	—	18
1,500	9,000	—	—	—	37,490	47,990	314	—	11,245
3	13	112	85	4	3,034	3,251	393	13	90
1,700	22,546	28,256	9,038	4,960	99,468	165,968	12,352	2,035	16,834
—	—	—	—	—	—	—	—	—	—
5	4	9	19	—	398	433	59	7	15
1,245	4,565	883	818	—	16,481	23,992	1,388	2,620	1,494
—	—	—	1	—	—	1	—	1	21
—	—	—	150	—	—	150	—	80	622
2	1	15	71	—	66	155	18	6	1023
1,290	60	2,746	1,636	—	548	6,240	40	1,350	36324
7	5	24	91	—	462	589	77	14	2725
2,495	4,625	3,929	2,604	—	17,029	30,382	1,428	4,050	1,86326

TABLE 32. Power Equipment in Use or in Reserve, in the Mineral Industry in Canada, by Industries, 1953 — Concluded

No.	Industry	Ordinarily in use										
		Steam engines	Steam turbines	Diesel engines	Gasoline, gas & oil except Diesel engines	Hydraulic turbines, water-wheels	Electric motors run by purchased power	Total	Electric motors run by plant-generated power	Boilers	Motor-generator sets	
	Non-metal mining											
1	Asbestos	No.	—	—	32	20	—	4,182	4,234	72	—	72
2		h.p.	—	—	3,526	1,282	—	107,436	112,244	660	—	8,421
3	Feldspar, quartz, nepheline	No.	—	—	17	41	2	365	425	—	—	8
4		h.p.	—	—	1,235	1,987	110	6,724	10,056	—	—	260
5	Gypsum	No.	—	—	44	28	—	159	231	65	—	22
6		h.p.	—	—	7,618	3,214	—	3,194	14,026	10,630	—	1,623
7	Iron oxides	No.	—	—	—	1	—	21	22	—	—	—
8		h.p.	—	—	—	30	—	101	131	—	—	—
9	Mica	No.	—	—	1	15	—	9	25	—	—	—
10		h.p.	—	—	80	637	—	152	869	—	—	—
11	Peat	No.	—	—	2	56	—	191	249	—	—	—
12		h.p.	—	—	175	2,630	—	2,052	4,857	—	—	—
13	Salt	No.	37	15	2	5	—	362	421	342	11	4
14		h.p.	1,571	4,083	300	78	—	2,628	8,660	3,154	3,780	120
15	Talc and soapstone	No.	—	—	2	—	—	33	35	—	—	—
16		h.p.	—	—	137	—	—	550	687	—	—	—
17	Miscellaneous	No.	—	—	20	9	2	748	779	80	—	18
18		h.p.	—	—	3,175	390	600	9,988	14,153	982	—	1,410
19	Total	No.	37	15	120	175	4	6,070	6,421	559	11	124
20		h.p.	1,571	4,083	16,246	10,248	710	132,825	165,683	15,426	3,780	11,834
	Structural materials											
21	Clay products	No.	14	—	33	74	17	1,523	1,661	1	18	1
22		h.p.	805	—	1,881	2,701	712	20,860	26,959	80	1,667	2
23	Cement	No.	1	—	20	52	—	3,077	3,150	40	—	56
24		h.p.	225	—	2,967	2,084	—	111,452	116,728	1,031	—	3,748
25	Lime	No.	—	—	5	6	—	862	873	44	3	1
26		h.p.	—	—	1,059	285	—	11,214	12,558	530	936	37
27	Sand and gravel	No.	2	—	234	450	—	517	1,203	23	—	12
28		h.p.	40	—	17,404	22,240	—	10,421	50,105	380	—	555
29	Stone	No.	32	8	175	249	—	1,723	2,187	16	14	21
30		h.p.	1,639	640	17,890	14,241	—	41,207	75,617	626	1,145	1,085
31	Total	No.	49	8	467	831	17	7,702	9,074	124	35	91
32		h.p.	2,709	640	41,201	41,551	712	195,154	281,967	2,647	3,748	5,427
33	GRAND TOTAL, 1953	No.	155	44	1,040	2,159	51	62,162	65,611	4,155	129	1,550
34		h.p.	23,282	46,160	137,388	92,594	47,382	1,666,922	2,013,728	90,523	52,635	225,123

TABLE 33. Power Equipment in Use or in Reserve, in the Mineral Industry in Canada, by Provinces, 1953

No.	Province	Ordinarily in use									
		Steam engines	Steam turbines	Diesel engines	Gasoline, gas & oil except Diesel engines	Hydraulic turbines, water-wheels	Electric motors run by purchased power	Total	Electric motors run by plant-generated power	Boilers	Motor-generator sets
1	Newfoundland	No. —	—	43	18	—	1,547	1,608	—	—	36
2		h.p. —	—	5,844	808	—	28,616	35,268	—	—	3,694
3	Nova Scotia	No. 20	5	57	49	—	2,031	2,162	267	14	54
4		h.p. 9,970	8,415	9,070	4,126	—	93,841	125,422	13,422	4,298	5,335
5	New Brunswick	No. 1	—	58	89	—	660	808	10	5	14
6		h.p. 150	—	6,060	4,244	—	11,672	22,126	115	380	1,828
7	Quebec	No. 7	15	168	225	2	20,417	20,834	665	22	443
8		h.p. 330	4,356	22,334	12,927	2,800	553,676	596,423	10,817	4,572	34,864
9	Ontario	No. 71	11	346	651	4	19,648	20,731	337	23	542
10		h.p. 2,989	3,963	34,994	31,039	710	571,234	644,929	4,686	3,445	117,913
11	Manitoba	No. 9	2	24	68	2	2,265	2,370	350	5	36
12		h.p. 915	9,333	2,993	2,121	7,000	58,384	80,746	9,042	4,568	6,667
13	Saskatchewan	No. 8	2	32	205	—	1,837	2,084	177	28	45
14		h.p. 514	1,489	3,960	4,228	—	49,971	60,162	2,432	26,471	1,930
15	Alberta	No. 23	6	194	709	—	4,403	5,335	508	30	204
16		h.p. 5,800	2,271	30,501	25,456	—	86,245	150,273	5,681	7,071	5,773
17	British Columbia	No. 16	3	107	138	40	8,418	8,722	1,838	2	157
18		h.p. 2,614	16,333	20,412	7,470	21,872	192,819	261,520	44,078	1,830	47,018
19	Northwest Territories	No. —	—	3	2	—	898	903	3	—	17
20		h.p. —	—	405	20	—	20,264	20,689	250	—	85
21	Yukon	No. —	—	8	5	3	38	54	—	—	2
22		h.p. —	—	815	155	15,000	200	16,170	—	—	16
23	Canada	No. 155	44	1,040	2,159	51	62,162	63,611	4,155	129	1,550
24		h.p. 23,282	46,160	137,388	92,594	47,382	1,666,922	2,013,728	90,523	52,635	225,123

TABLE 32. Power Equipment in Use or in Reserve, in the Mineral Industry in Canada, by Industries, 1953 — Concluded

TABLE 33. Power Equipment in Use or in Reserve, in the Mineral Industry in Canada, by Provinces, 1953

In reserve or idle									
Steam engines	Steam turbines	Diesel engines	Gasoline, gas & oil except Diesel engines	Hydraulic turbines, water-wheels	Electric motors run by purchased power	Total	Electric motors run by plant-generated power	Boilers	Motor-generator sets
—	—	1	—	1	45	47	—	—	2 1
—	—	192	—	2,360	1,700	4,252	—	—	615 2
4	3	4	3	—	268	282	53	8	9 3
790	3,675	595	160	—	14,350	19,570	916	2,820	170 4
—	—	—	—	—	65	65	—	1	2 5
—	—	—	—	—	1,038	1,038	—	80	6 6
1	1	33	58	—	1,898	1,991	97	12	31 7
250	4,000	8,522	3,486	—	55,992	72,250	4,436	753	2,310 8
13	10	42	99	—	1,525	1,689	60	9	47 9
3,096	691	7,463	7,112	—	51,530	69,892	2,382	615	12,504 10
3	1	4	8	—	264	280	61	1	3 11
200	600	960	455	—	6,816	9,031	619	415	556 12
2	—	3	10	—	307	322	52	2	3 13
128	—	1,010	306	—	7,567	9,011	392	515	120 14
7	4	22	67	—	170	270	76	7	15 15
2,150	1,586	3,529	2,171	—	3,426	12,862	1,104	1,975	1,780 16
2	6	40	14	3	303	368	182	1	24 17
100	18,000	5,994	1,038	2,600	8,610	38,342	5,035	652	2,081 18
—	—	13	1	—	122	136	2	—	2 19
—	—	4,189	50	—	1,465	5,704	50	—	8 20
—	—	9	4	—	5	18	—	—	1 21
—	—	3,494	60	—	30	3,584	—	—	5 22
32	25	171	264	4	4,972	5,468	583	41	139 23
11,714	28,552	35,948	14,838	4,960	152,524	243,536	14,934	7,825	20,155 24

TABLE 34. Cost of Prospecting Conducted by Metal Mining Companies, 1950-1953

Province in which prospecting was conducted	By alluvial gold mines ¹	By auriferous quartz mines ¹	By copper-gold-silver mines ¹	By silver-cobalt mines ¹	By silver-lead-zinc mines ¹	By nickel-copper mines	By miscellaneous metal mines ¹	Total metal mining
Dollars								
1950								
Newfoundland	—	460	—	—	104,030	74,942	—	179,432
Nova Scotia	—	1,243	—	—	—	—	—	1,243
New Brunswick	—	899	—	—	904	—	—	1,803
Quebec	—	1,231,390	469,434	800	177,481	3,699	42,997	1,925,801
Ontario	—	887,237	134,308	9,310	14,343	325,260	413,954	1,784,412
Manitoba	—	47,852	85,398	—	1,203	188,877	—	323,330
Saskatchewan	—	6,953	19,303	—	13,898	13,750	—	53,904
Alberta	—	—	—	75,900	—	—	—	75,900
British Columbia	47,929	494,000	84,638	—	158,276	1,123	—	785,966
Northwest Territories	—	79,807	828	—	—	6,726	—	87,361
Yukon	12,621	8,828	7,479	—	105,187	—	—	134,115
Canada	60,550	2,758,669	801,388	86,010	575,322	614,377	456,951	5,353,267
1951								
Newfoundland	—	400	20,304	—	118,826	370,524	37,862	547,916
Nova Scotia	—	50	3,011	—	4,592	—	16,731	24,384
New Brunswick	—	34,673	54,303	—	824	—	—	89,800
Quebec	—	979,304	670,597	28,535	149,491	10,603	449,971	2,288,501
Ontario	—	985,868	194,597	7,584	54,039	2,181,404	761,851	4,185,343
Manitoba	—	30,507	52,494	—	2,587	420,077	141	505,806
Saskatchewan	—	77,500	23,505	—	5,277	14,805	—	121,587
British Columbia	13,222	292,424	171,557	—	418,991	—	144,160	1,040,354
Northwest Territories	—	13,278	207	—	50,690	125,850	8,441	198,408
Yukon	7,884	—	3,971	—	162,427	—	—	174,282
Canada	21,106	2,414,004	1,194,546	36,119	968,244	3,123,263	1,419,157	9,176,439
1952								
Newfoundland	—	125,508	51,618	—	156,474	306,675	9,265	649,540
Nova Scotia	—	3,203	1,401	—	—	413	17,064	22,081
New Brunswick	—	38,194	67,504	—	—	—	728	106,426
Quebec	—	961,110	752,793	46,773	605,731	36,981	1,083,043	3,486,431
Ontario	—	926,399	375,990	59,129	93,727	2,805,455	457,309	4,718,009
Manitoba	—	62,534	436	—	4,847	620,707	—	688,524
Saskatchewan	—	45,736	64,398	—	29,123	24,686	1,010	164,953
Alberta	—	—	598	—	—	—	—	598
British Columbia	11,805	377,946	388,887	—	500,019	—	182,839	1,461,496
Northwest Territories	—	13,140	8,280	—	383,369	1,329,549	9,200	1,743,538
Yukon	—	13,211	28,302	—	495,065	—	—	536,578
Canada	11,805	2,566,981	1,740,207	105,902	2,268,355	5,124,466	1,760,458	13,578,174
1953								
Newfoundland	—	97,524	—	—	304,836	208,162	324,229	934,751
Nova Scotia	—	27,813	438	—	71,563	236	6,044	106,094
New Brunswick	—	201,750	828,573	—	1,725,335	38,529	138,279	2,932,466
Quebec	—	660,489	1,015,497	24,732	252,893	120,410	1,087,857	3,161,878
Ontario	—	830,951	295,310	39,253	68,291	3,475,609	693,988	5,403,402
Manitoba	—	74,789	35,791	—	13,530	1,465,739	—	1,589,849
Saskatchewan	—	346,945	46,904	—	60,152	50,324	—	504,325
Alberta	—	—	765	—	765	—	—	1,530
British Columbia	31,982	232,339	207,129	—	942,431	765	60,586	1,475,232
Northwest Territories	—	70,505	2,945	—	29,535	1,291,846	—	1,394,831
Yukon	1,025	30,361	81,149	—	124,347	91,298	220	328,406
Canada	33,007	2,573,466	2,514,501	63,985	3,593,678	6,742,918	2,311,203	17,832,758

1. Industry in which the companies' principal operations are conducted, but prospecting may be conducted for any mineral-i.e.-an auriferous quartz mining company may prospect for silver-lead-zinc.

ERRATA

Some revisions have been made in the 1953 statistics on the mineral industries since the publication of the separate industry reports in this series. These are as follows:-

Silver-Lead-Zinc Mining:

Page C-22, Table 40: Gas (a) Liquefied petroleum gases— eliminate the value \$100.
Total (cost only), “\$301,297” should read “\$301,197”.

Non-Ferrous Smelting and Refining:

Page F-4, Table 1: Line 1—number of companies in 1953 should read “10” instead of “11”.
Line 4—workmen “20,691” should read “20,991”.
Line 5—Total “24,815” should read “25,115”.
Line 7—workmen earnings “\$76,015,601” should read “\$77,015,601”.
Line 8—Total earnings “\$93,545,611” should read “\$94,545,611”.
Table 2: column 6, male—should read vertically 20,510; 20,482; 20,605;
21,224; 21,159; 21,372; 21,298; 21,193; 21,133; 21,059; 20,968; 20,942.
Page F-5, Table 3: 2nd line from bottom “730,115,043” kwh should read
“796,201,243” kwh.

Asbestos Mining:

Page I-5, Table 8: line 10—wood, cords “912” should read “915”.

Peat Industry:

Page L-7, Table 10: Fuel oil “15,562” gallons valued at “\$3,175” should read “16,288” gallons at “\$3,321”.
Other fuel “146” should read “nil”.
Electricity purchased for power—“2,256,436” kwh at “\$45,098” should read
“2,257,636” kwh at “\$45,218”—delete figures in the next line.

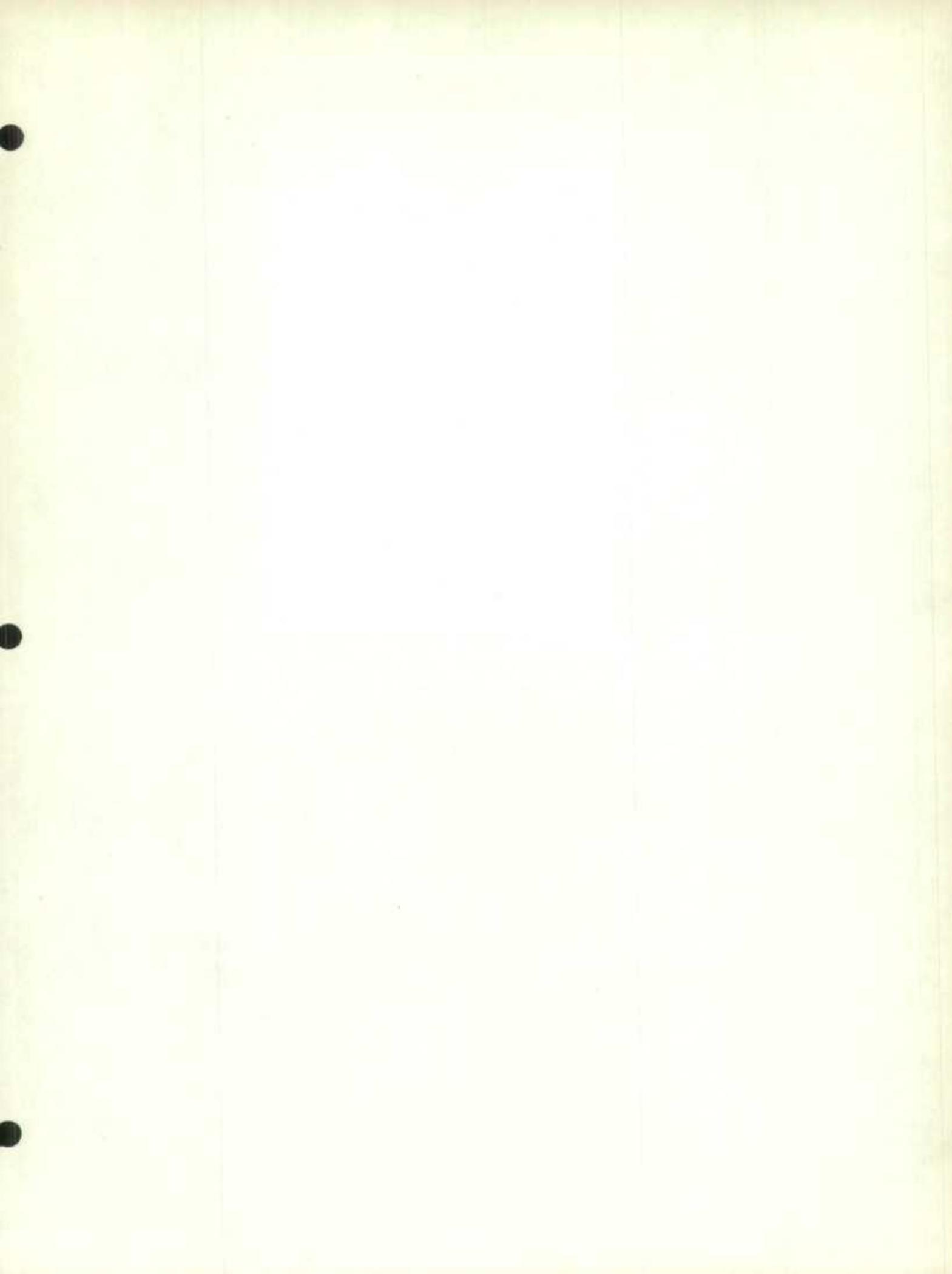
Salt Industry:

Page M-9, Table 12: Item 8, column left to right should read 342; 3,154; 87;
and 824.
Item 9, columns 3 and 4 should read “3” and “825”.

Cement Manufacturing:

Page 3, Footnote 1, should read “Includes process supplies, containers and purchased raw materials, excluding materials from own quarries”.
Page P-5, Table 5: column headings—“Tons” should read “Barrels”.





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