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ANNUAL



GENERAL REVIEW OF THE MINERAL INDUSTRIES
(MINES, QUARRIES AND OIL WELLS)

1962

Formerly General Review of The Mining Industry

DOMINION BUREAU OF STATISTICS
Industry Division

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1962

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EXPLANATORY NOTES

Establishment

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

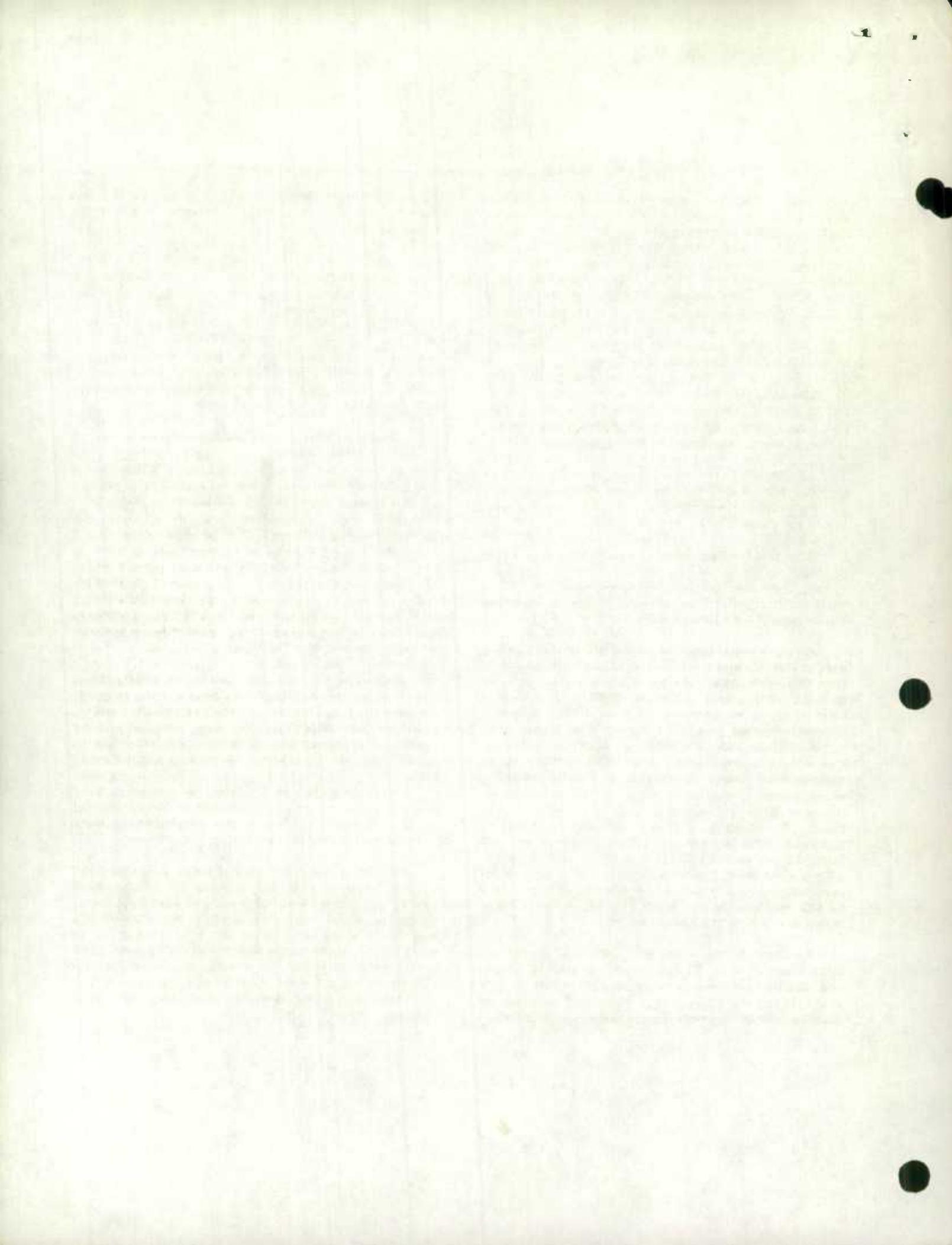
The smallest unit which is a separate operating entity capable of reporting all the following:

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

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would

have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A mining establishment is typically a mine, mine/mill, quarry, pit or bog principally engaged in mining operations. Prior to 1961, the Census of Mines, Quarries and Oil Wells attempted to cover the mining activities of all establishments, whether or not they were principally engaged in mining operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in mining are no longer included as mining establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in mining establishments, many non-mining establishments are now surveyed for commodity information only and the latter are included in the appropriate tables of industry reports.



MINES, QUARRIES AND OIL WELLS

During 1962 the value of mineral commodities shipped by the Canadian operators amounted to \$2,847,986,179 as compared with \$2,582,300,387 in the preceding year. This was an increase of 10.3 per cent. The metals group increased 7.9 per cent, to \$1,496 million from \$1,387 million. Non-metallics rose 3.3 per cent from \$210.4 million to \$217.4 million. Mineral or fossil fuels increased 19.5 per cent from \$653.3 million to \$780.9 million. The value of structural materials increased 7.5 per cent to \$356.2 million from \$331.3 million.

The quantity index of mineral production was 287.4 in 1962 compared with 266.9 in 1961. The index base year was 1949 = 100. The tonnage of ore or rock mined or quarried in 1962 amounted to 228,728,595 tons compared with 206,148,807 tons in 1961. Excluded from these figures were the tonnages of coal mined and the tonnages of sand, gravel, sodium sulphate and similar materials not actually mined or blasted.

The ten leading mineral commodities in order of total value were, in 1962: petroleum, nickel, copper, iron ore, uranium, gold, asbestos, sand and gravel, cement and zinc. Each of these commodities exceeded \$100 million in value.

Output gains were recorded for all provinces except Ontario and Northwest Territories. Shipments from Ontario's mines declined 3.2 per cent in 1962 to \$913 million and Ontario's share of the Canada total dropped to 32.0 per cent from 36.5 in 1961. Quebec's output increased 14 per cent in value to \$519 millions, about 18 per cent of the total for Canada. In Alberta production rose 19.6 per cent to \$356 million which was nearly 20 per cent for the whole country. Gains in other provinces were as follows: British Columbia, 24.8 per cent to \$235 million; Saskatchewan, 11.4 per cent to \$240 million; Manitoba, 56.6 per cent to \$159 million; Newfoundland, 11 per cent to \$102 million; New Brunswick, 16 per cent to \$22 million; Nova Scotia very small percentage to \$62 million and the Yukon 3 per cent to \$13 million. In the Northwest Territories there was a decline to \$17.5 million.

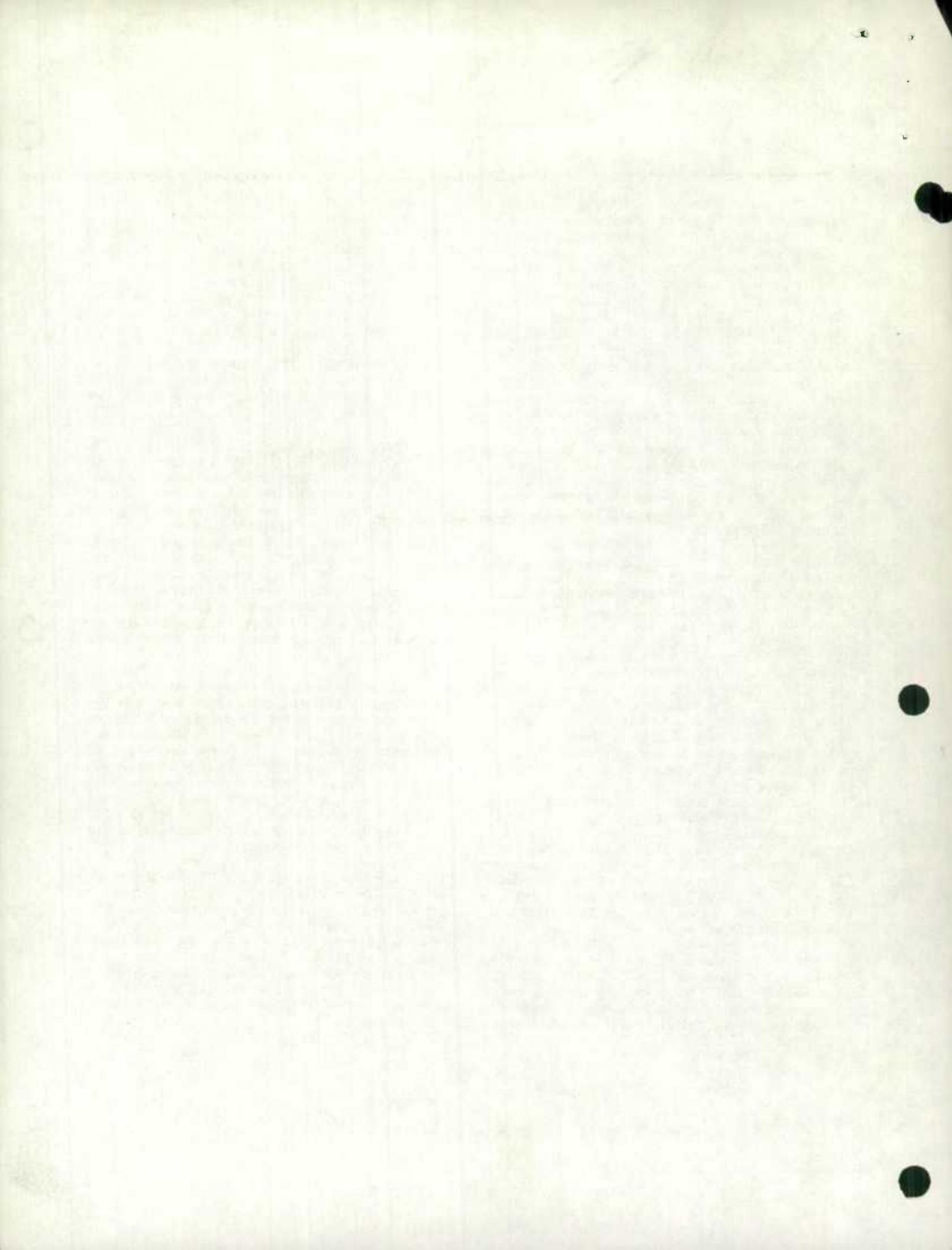
Included in the value of \$1,496 million for the metals group were \$282.7 million worth of copper and \$383.8 million worth of nickel. After twenty years, it appeared that the producers of nickel were able to satisfy the market demand and began reduc-

ing output during the later months of the year. New iron mines added to Canada's exports of iron ore. The gold mines received an average price of \$37.41 per troy ounce for their gold, due to the devaluation of the Canadian dollar in terms of United States dollar. Despite the increased price the total quantity and total value of gold was less than in the preceding year. As was anticipated, the quantity and value of uranium continued to diminish. Silver increased in price, reaching \$1.30 per troy ounce. Most of the silver in Canada is associated with other metals, thus the mines can not produce more silver without producing more lead, or zinc or copper into an over-loaded market.

Shipments of non-metallic minerals were valued at \$217 million. Included in this figure was \$130 million worth of asbestos. Although asbestos is produced in British Columbia and Ontario the greater portion is mined in the Eastern Townships of Quebec. More rock salt was produced than ever before, the total tonnage of rock salt, fine vacuum salt, and salt in brine, was 3.6 million. A new potash mine in Saskatchewan came into production. Gypsum tonnage remained fairly level. As was expected there were large quantities of elemental sulphur produced from sour natural gas in western Canada. The producers were able to dispose of exceptionally large portions of the output.

Mineral or fossil fuels were worth \$781 million an increase of \$127 million from \$653 million in 1961. Crude petroleum shipments were 244 million barrels, which included 165 million from Alberta and 64 million from Saskatchewan. Natural gas output, less waste and flared, amounted to 947,000 million cubic feet. Natural gas by-products which include condensate, natural gasoline, propane, butane, etc. were obtained by processing natural gas in the vicinity of the gas fields. Coal shipments decreased as more coal mines ceased operations.

Structural materials had a total value of \$356 million. Cement shipments from 19 plants were valued at \$113 million. Clay products such as brick, tile, flue linings and pottery were worth about \$38 million. A major portion of the lime production is used in chemical and other industrial plants. The construction of roads, buildings, dwellings etc. increased the demand for stone, sand and gravel. The combined value for these commodities was \$137 million.



SYMBOLS

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

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
- r revised figures.

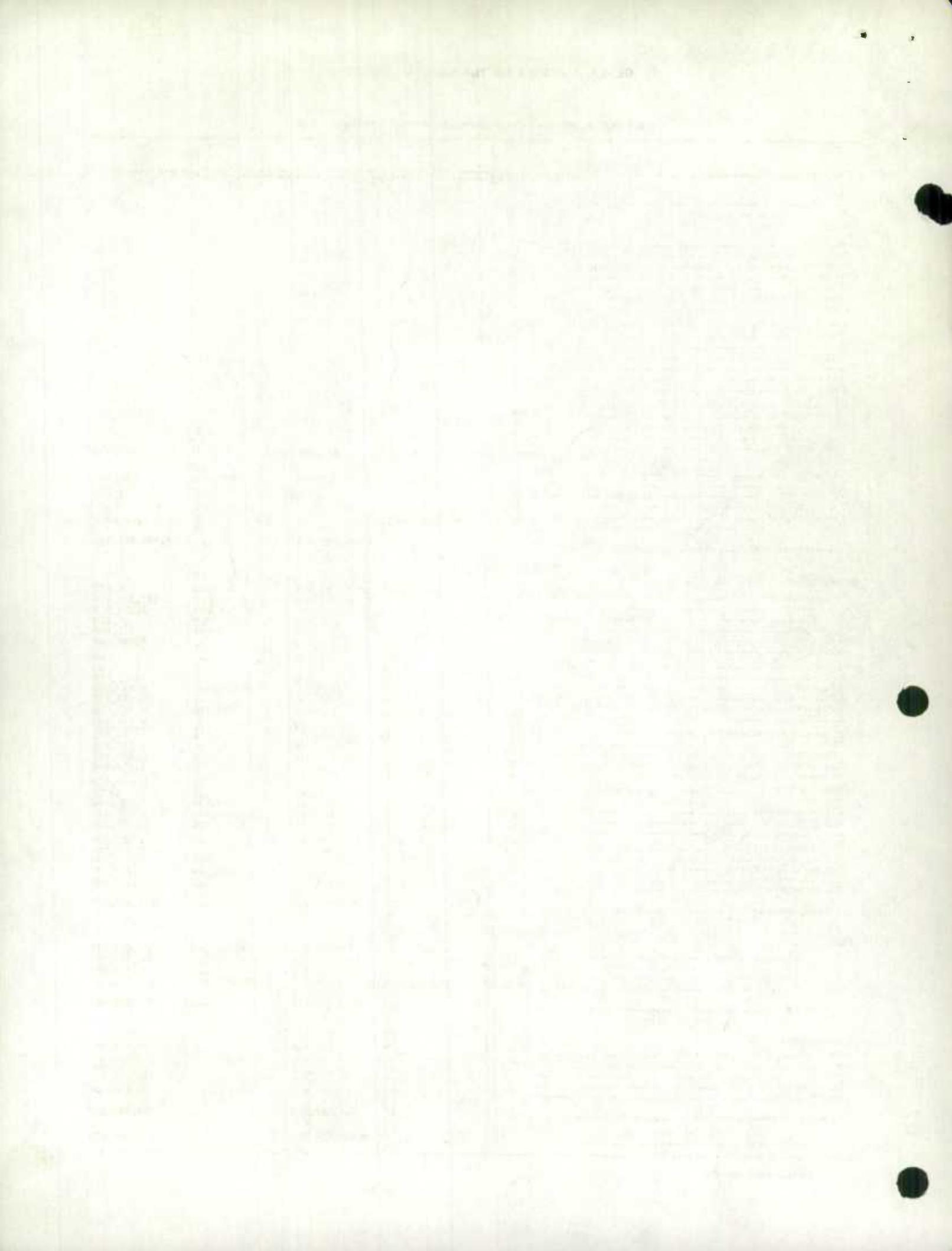


TABLE 1. Mineral Production, by Kinds, 1961 and 1962

		1961		1962	
		Quantity	Value	Quantity	Value
		\$	\$		
Metallics:					
Antimony	lb.	1,331,297	469,948	1,931,397	748,123
Bismuth	"	476,118	957,625	425,102	829,512
Cadmium	"	1,357,874	2,172,598	2,604,973	4,730,957
Calcium	"	99,355	100,881	123,511	124,412
Cobalt	"	3,182,897	4,751,543	3,481,922	6,345,205
Columbium (Cb_2O_5)	"	62,229	65,619	1,016,514	1,006,349
Copper	"	878,175,084	255,157,626	914,770,211	282,732,696
Gold	troy oz.	4,473,699	158,637,366	4,178,396	156,313,794
Indium					
Iron ore	ton	20,359,003	187,950,047	27,359,676	263,004,217
Iron, remelt					
Lead	lb.	460,869,392	47,054,765	430,658,673	42,721,341
Magnesium	"	15,270,618	4,307,570	17,631,310	4,821,823
Molybdenum	"	771,358	1,092,201	817,705	1,261,451
Nickel	"	465,982,868	351,261,720	464,483,999	383,784,622
Platinum group	troy oz.	418,278	24,534,349	470,787	28,548,637
Selenium	lb.	430,612	2,798,978	487,066	2,800,630
Silver	troy oz.	31,381,977	29,580,651	30,422,972	35,442,761
Tantalum (Ta_2O_5)					
Tellurium	lb.	77,609	376,404	58,725	352,350
Thorium					
Tin	lb.	1,119,350	727,578	650,941	442,640
Titanium ore					
Tungsten (WO_3)	lb.	—	—	3,580	1,611
Uranium (U_3O_8)	"	19,281,465	195,691,624	16,859,169	158,183,669
Zinc	"	832,008,584	104,749,879	926,289,098	112,080,981
Total metallics		...	1,387,139,036	...	1,496,433,950
Non-metallics:					
Aluminous oxide	lb.	419,300	16,772	160,750	6,832
Andesite	ton	1,173,695	128,955,900	1,215,814	130,261,966
Barite	"	191,404	1,799,119	226,600	2,123,964
Dolomite	"	214	8,817	211	10,228
Feldspar	"	10,507	229,626	9,994	222,460
Feldspar		..	1,990,200	..	1,870,184
Garnet	ton	80	3,200	—	—
Graphite	"	1	146	—	—
Grindstone	"	10	2,000	10	2,000
Granite	"	4,940,037	7,750,748	5,332,809	9,349,775
Kap oxide	"	808	68,199	771	58,263
Lignite	lb.	536,190	392,871	499,736	558,634
Magnesitic-dolomite and brucite			3,064,403		3,431,673
Mica	lb.	1,816,160	125,377	1,204,034	84,853
Mineral waters	gal.	364,933	208,709	377,248	307,325
Nepheline syenite	ton	240,320	2,572,169	254,418	265,421
Peat moss	"	224,031	7,295,087	238,035	7,480,396
Potash (K_2O)			—	..	3,000,000
Pozzolana	ton	517,258	2,000	517,308	4,927
Pyrite, pyrrhotite	"	2,194,054	1,830,566	2,085,620	1,879,384
Quartz	"	3,246,527	3,152,882	3,638,778	3,617,445
Salt			19,552,006		21,927,135
S. apatite, talc ¹	"	48,116	690,630	46,161	625,208
Sulfuric sulphate	"	250,996	4,036,625	246,672	3,954,273
Sulfur in smelter gas	"	277,056	2,708,110	292,728	3,089,537
Sulfur, elemental	"	394,762	7,287,881	695,098	9,386,999
Titanium dioxide, etc.	"	—	16,723,743	—	11,573,862
Total non-metallics		...	210,467,786	...	217,453,009
Fuels:					
Coal	ton	10,397,704	70,052,683	10,284,769	69,160,211
Natural gas	McF.	655,737,644	68,421,918	946,702,727	108,641,559
Natural gas by-products			27,292,959	—	50,778,566
Petroleum, crude	bbl.	220,848,080	487,560,242	244,115,152	552,352,509
Total fuels		...	633,327,802	...	780,932,387
Structural materials:					
Clay products (brick, tile, etc.)	ton	—	36,982,948	—	37,816,878
Cement	ton	6,205,948	103,923,644	6,878,729	113,233,736
Lime	"	1,415,290	19,217,371	1,324,459	17,646,588
Sand and gravel	"	170,750,947	104,654,132	181,245,762	118,603,283
Stone	"	48,938,804	66,567,668	50,553,485	68,866,358
Total structural materials		...	331,345,763	...	356,166,833
Grand totals		...	2,582,300,387	...	2,850,986,179

¹ Includes pyrophyllite.

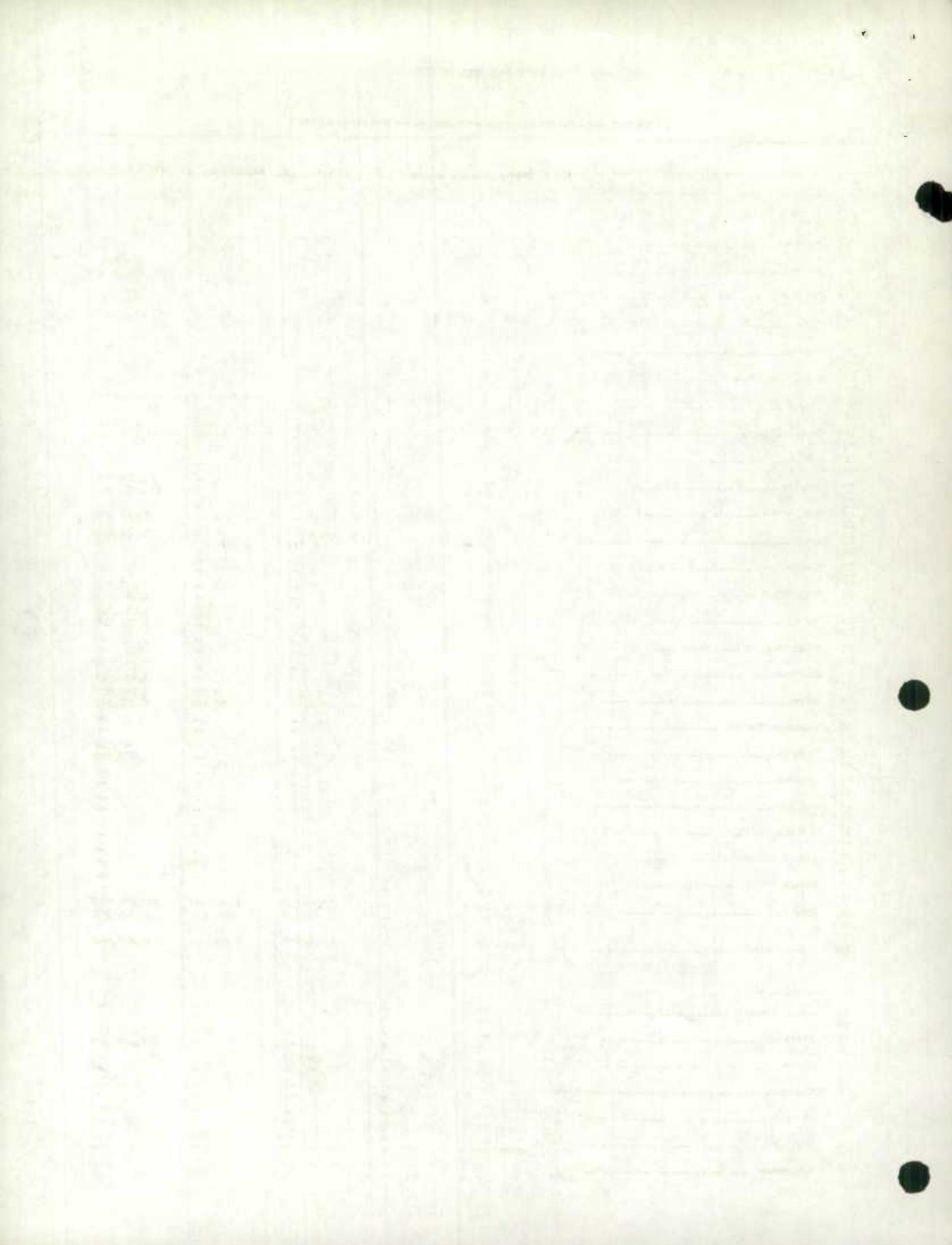


TABLE 2. Mineral Production of Canada, by Provinces, 1962

No.		Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Metals:						
1	Antimony	lb. \$	—	—	—	—
2	Bismuth	lb. \$	—	—	—	196,501
4	Cadmium	lb. \$	—	—	—	332,418
5	Cadmium	lb. \$	—	—	—	66,293
6	Cadmium	lb. \$	—	—	—	114,024
7	Calcium	lb. \$	—	—	—	—
8	Cobalt	lb. \$	—	—	—	—
9	Cobalt	lb. \$	—	—	—	—
10	Columbium (Cb_2O_5)	lb. \$	—	—	—	—
11	Copper	lb. \$	34,616,626 10,731,154	407,418 128,300	7,347,949 2,277,864	294,861,820 91,407,164
13	Gold	oz. \$	13,966 522,468	—	553 20,688	993,560 37,169,080
17	Indium	—	—	—	—	—
18	Iron ore	lb. \$	7,986,910 87,753,153	—	—	11,163,982 112,444,643
21	Iron, remelt	—	—	—	—	—
22	Iron, remelt	—	—	—	—	9,845,669
23	Lead	lb. \$	50,660,572 5,025,529	5,363,377 532,047	3,758,717 372,865	9,432,012 935,656
25	Magnesium	lb. \$	—	—	—	—
27	Molybdenum	lb. \$	—	—	—	817,705
28	Molybdenum	lb. \$	—	—	—	1,261,451
29	Nickel	lb. \$	—	—	—	3,080,117
30	Nickel	lb. \$	—	—	—	2,571,898
31	Platinum group	oz. \$	—	—	—	—
32	Selenium	lb. \$	—	—	—	—
33	Silver	oz. \$	1,181,648 1,378,620	724,245 843,745	178,521 207,977	4,603,019 5,362,517
37	Tantalum (Ta_2O_5)	—	—	—	—	—
38	Tellurium	lb. \$	—	—	—	—
39	Tellurium	lb. \$	—	—	—	45,724
40	Thorium	—	—	—	—	274,344
41	Thorium	—	—	—	—	—
42	Tin	lb. \$	—	—	—	—
43	Titanium ore	—	—	—	—	—
45	Tungsten (WO_3)	lb. \$	—	—	—	—
47	Uranium (U_3O_8)	lb. \$	—	—	—	—
49	Uranium (U_3O_8)	lb. \$	—	—	—	—
50	Zinc	lb. \$	65,081,560 7,874,869	1,513,140 183,090	4,996,488 604,575	141,473,544 17,118,299
51	Zinc	lb. \$	—	—	—	—
52	Zinc	lb. \$	—	—	—	—
53	Total metals	\$	83,283,793	1,685,182	3,483,969	281,432,864
Non-metallics:						
54	Arsenious oxide	lb. \$	—	—	—	—
55	Asbestos	ton \$	—	—	—	—
56	Asbestos	ton \$	—	—	—	1,125,131
57	Asbestos	ton \$	—	—	—	114,297,886
58	Barite	ton \$	—	220,089 2,066,902	—	—
59	Diatomite	ton \$	—	—	—	—
60	Feldspar	ton \$	—	—	—	—
61	Feldspar	ton \$	—	—	—	—
62	Feldspar	ton \$	—	—	—	9,994
63	Feldspar	ton \$	—	—	—	222,460
64	Fluorspar	ton \$	1,870,184	—	—	—
65	Grindstone	ton \$	—	—	10	—
66	Grindstone	ton \$	—	—	2,000	—
67	Grindstone	ton \$	—	—	—	—

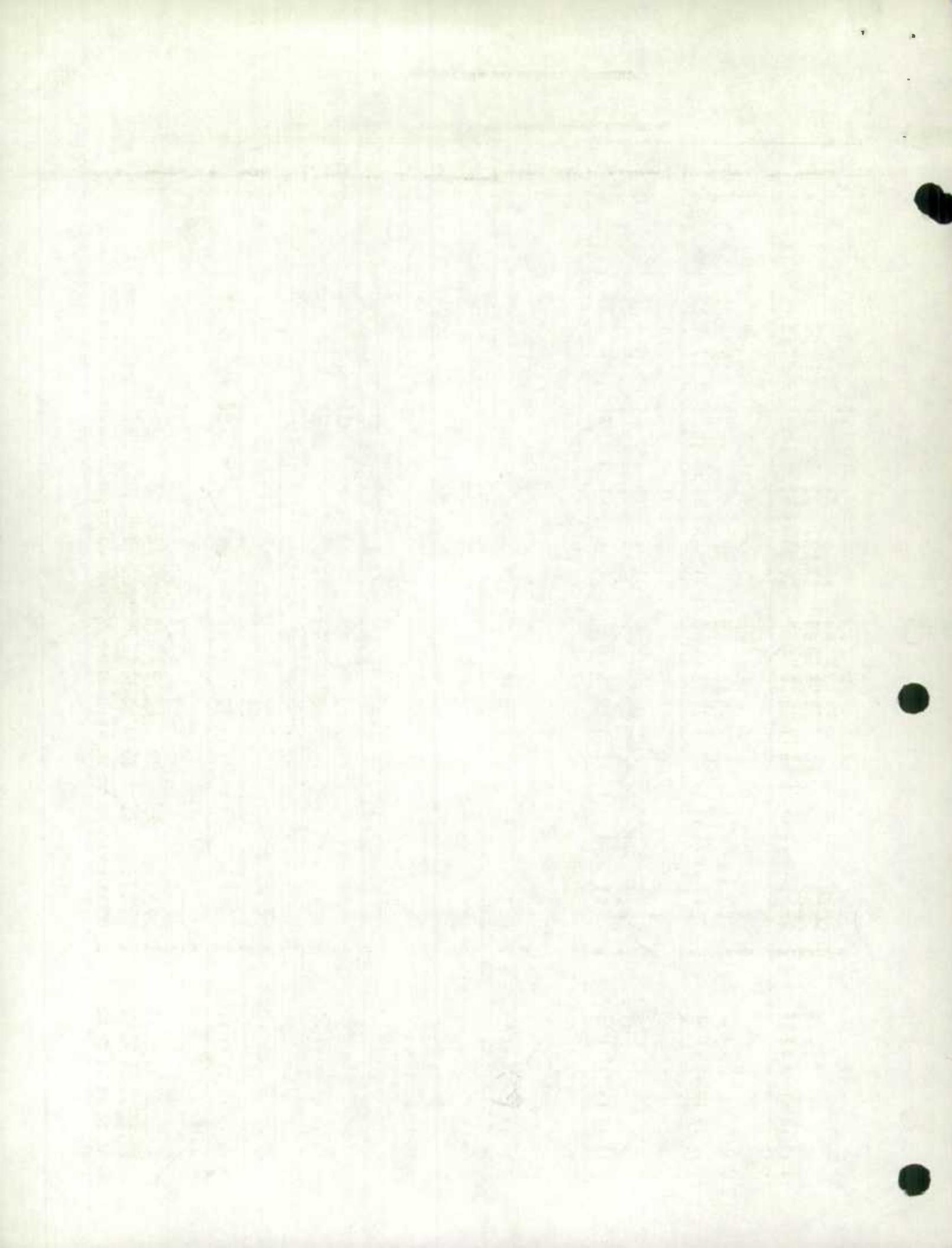
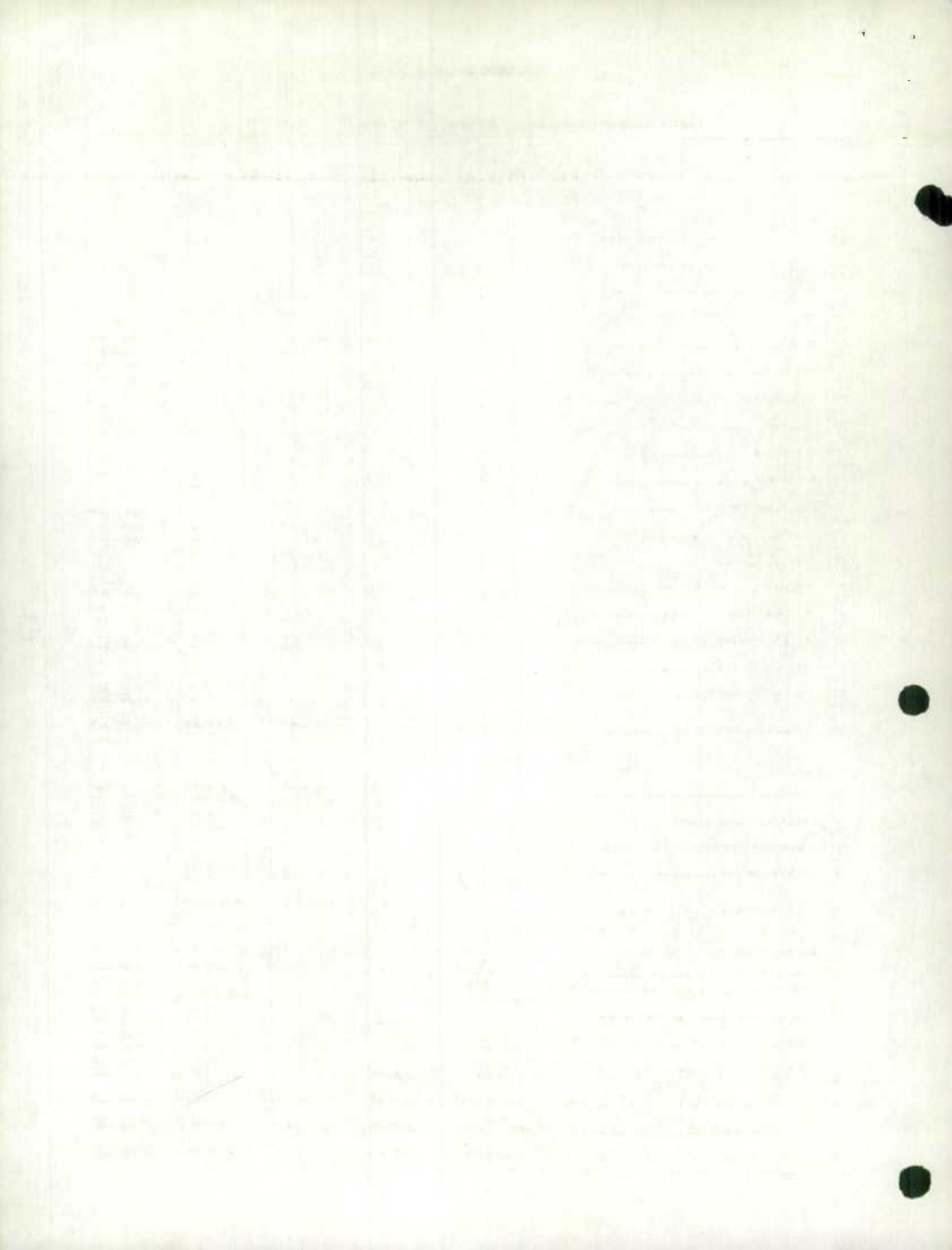


TABLE 2. Mineral Production of Canada, by Provinces, 1962

Ontario	Manitoba	Alberta	Saskatchewan	British Columbia	Northwest Territories	Yukon	Canada	No.
—	—	—	—	1,931,397	—	—	1,931,397	1
—	—	—	—	748,223	—	—	748,223	2
—	—	—	—	228,601	—	—	425,102	3
—	—	—	—	507,494	—	—	839,912	4
—	189,272	128,223	—	2,086,692	—	134,493	2,604,973	5
—	325,548	220,544	—	3,839,513	—	231,328	4,730,957	6
123,511	—	—	—	—	—	—	123,511	7
124,412	—	—	—	—	—	—	124,412	8
2,649,193	832,729	—	—	—	—	—	3,481,922	9
4,763,808	1,579,397	—	—	—	—	—	6,345,205	10
—	—	—	—	—	—	—	1,016,514	11
—	—	—	—	—	—	—	1,006,349	12
377,990,630	25,475,004	64,033,759	—	108,979,144	628,801	429,000	914,770,211	13
116,347,723	7,897,714	19,850,465	—	33,766,394	194,928	132,990	282,732,696	14
2,421,249	68,259	66,034	186	159,492	400,292	54,805	4,178,396	15
90,578,924	2,553,569	2,470,332	6,958	5,966,596	14,974,924	2,050,255	156,313,794	16
—	—	—	—	—	—	—	..	17
—	—	—	—	—	—	—	..	18
6,414,936	—	—	—	1,793,848	—	—	27,359,676	19
64,479,510	—	—	—	18,326,911	—	—	263,004,217	20
—	—	—	—	—	—	—	..	21
—	—	—	—	—	—	—	9,845,669	22
2,287,687	7,584,246	—	—	335,282,537	—	16,290,125	430,658,673	23
226,679	752,357	—	—	33,260,028	—	1,615,980	42,721,341	24
17,631,310	—	—	—	—	—	—	17,631,310	25
4,821,823	—	—	—	—	—	—	4,821,823	26
—	—	—	—	—	—	—	817,705	27
—	—	—	—	—	—	—	1,261,451	28
333,163,344	122,963,069	—	—	3,476,467	1,801,002	—	464,483,999	29
274,219,955	102,586,082	—	—	2,902,850	1,503,837	—	383,784,622	30
470,782	—	—	—	5	—	—	470,787	31
28,648,262	—	—	—	375	—	—	28,848,637	32
142,915	11,477	56,265	—	—	—	—	487,066	33
821,761	65,993	323,524	—	—	—	—	2,800,630	34
9,383,445	847,879	762,215	17	6,186,937	72,802	6,482,244	30,422,972	35
10,931,713	987,779	887,980	20	7,207,782	84,814	7,551,814	35,442,761	36
—	—	—	—	—	—	—	—	37
—	—	—	—	—	—	—	—	38
7,011	1,008	4,982	—	—	—	—	58,725	39
42,066	6,048	29,892	—	—	—	—	352,350	40
..	—	—	—	—	—	—	..	41
..	—	—	—	—	—	—	..	42
—	—	—	—	650,941	—	—	650,941	43
—	—	—	—	442,640	—	—	442,640	44
—	—	—	—	—	—	—	—	45
—	—	—	—	—	—	—	—	46
—	—	—	—	—	—	3,580	3,580	47
—	—	—	—	—	—	1,611	1,611	48
12,885,103	—	4,053,966	—	—	—	—	16,859,169	49
118,283,681	—	39,900,588	—	—	—	—	158,183,659	50
126,264,684	99,840,226	61,799,241	—	413,431,339	—	11,888,876	926,289,096	51
15,278,027	12,080,667	7,477,708	—	50,025,192	—	1,438,554	112,080,981	52
729,769,944	128,835,154	71,161,033	6,978	156,993,998	13,022,532	16,758,503	1,496,433,950	53
160,750	—	—	—	—	—	—	160,750	54
6,832	—	—	—	—	—	—	6,832	55
35,551	—	—	—	55,132	—	—	1,215,814	56
5,686,720	—	—	—	10,297,360	—	—	130,281,966	57
—	—	—	—	6,511	—	—	226,600	58
—	—	—	—	57,062	—	—	2,123,964	59
—	—	—	—	211	—	—	211	60
—	—	—	—	10,228	—	—	10,228	61
—	—	—	—	—	—	—	9,994	62
—	—	—	—	—	—	—	222,460	63
—	—	—	—	—	—	—	..	64
—	—	—	—	—	—	—	1,870,184	65
—	—	—	—	—	—	—	10	66
—	—	—	—	—	—	—	2,000	67



MINERAL STATISTICS

TABLE 2. Mineral Production of Canada, by Provinces, 1962 — Concluded

No.		Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Non-metallic — Concluded:						
1	Gypsum	ton \$	83,992 284,564	—	4,451,072 7,113,517	91,835 161,649
2	Iron oxide	ton \$	—	—	—	771 58,363
3	Lithia	lb. \$	—	—	—	499,736 558,654
4	Magnestic-dolomite and brucite	\$	—	—	—	3,431,873
5	Mica	lb. \$	—	—	—	702,762 75,350
6	Mineral waters	gal. \$	—	—	—	372,048 204,545
7	Nepheline syenite	ton \$	—	—	—	—
8	Peat moss	ton \$	—	4,734 132,668	35,010 1,407,433	77,889 1,968,483
9	Potash (K_2O)	—	—	—	—	—
10	Pozzolana	\$	—	—	—	—
11	Pyrile, pyrrhotite	ton \$	—	—	—	1,813,785
12	Quartz	ton \$	—	2,502 45,036	—	392,395 2,037,944
13	Salt	ton \$	—	312,519 3,112,753	—	—
14	Slipstone, talc, pyrophyllite	ton \$	22,794 343,210	—	—	15,285 154,086
15	Sodium sulphate	ton \$	—	—	—	—
16	Sulphur in smelter gas	ton \$	—	—	—	167,860
17	Sulphur, elemental	ton \$	—	—	—	—
18	Titanium dioxide, etc.	\$	—	—	—	11,573,862
37	Total non-metallics	\$	2,497,958	—	12,471,074	1,571,082
						136,365,151
Fuels:						
38	Coal	ton \$	—	—	4,204,779 41,713,202	815,529 6,752,042
39	Natural gas	Mcf. \$	—	—	—	—
40	Natural gas by-products	\$	—	—	95,750 134,476	—
41	Petroleum, crude	bbl. \$	—	—	—	—
42	Total fuels	\$	—	—	41,713,202	6,900,984
Structural materials:						
47	Clay products	\$	142,000	—	1,712,503	822,400
48	Cement	ton \$	96,916 1,985,524	—	—	169,823 2,774,908
49	Lime	ton \$	—	—	—	17,341 389,876
50	Sand and gravel	ton \$	4,250,942 3,504,594	531,196 452,906	4,375,842 2,738,424	5,128,365 2,790,933
51	Stone	ton \$	—	—	—	365,473 4,431,612
52	Total structural materials	\$	6,077,209	677,906	5,781,635	44,000,000
53	Grand totals 1962	\$	101,858,960	677,906	61,631,093	21,811,373
54	Grand totals 1961	\$	91,618,709	606,644	61,693,156	18,804,385
55						455,322,933

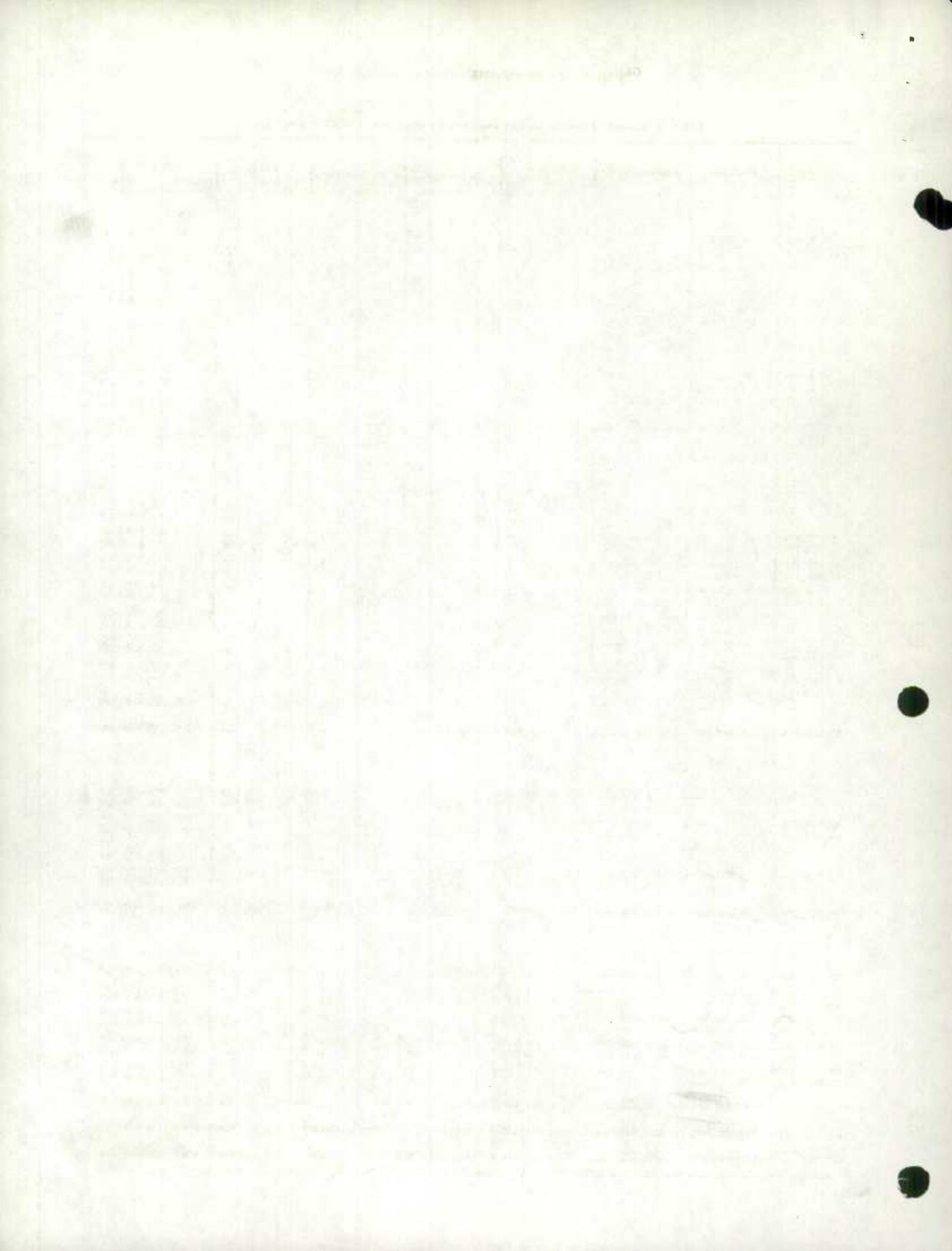
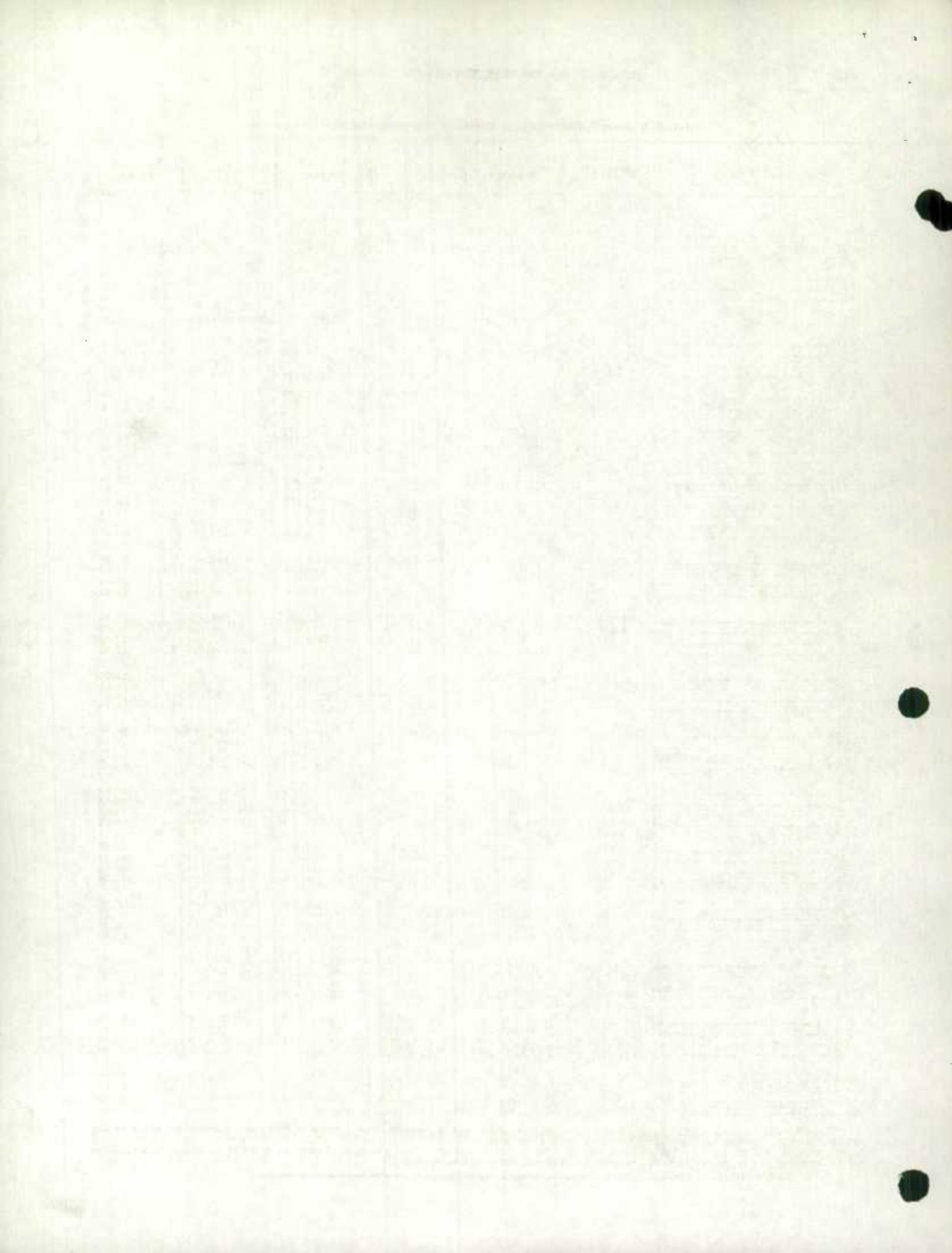


TABLE 2. Mineral Production of Canada, by Provinces, 1962 — Concluded

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Northwest Territories	Yukon	Canada	No.
335,140 1,007,818	122,870 338,527	— —	— —	147,900 443,700	— —	— —	5,332,809 9,349,775	1 2
—	—	—	—	—	—	—	771	3
—	—	—	—	—	—	—	58,363	4
—	—	—	—	—	—	—	499,736	5
—	—	—	—	—	—	—	558,654	6
—	—	—	—	—	—	—	3,431,873	8
501,272 9,248	— —	— —	— —	— —	— —	— —	1,204,034 84,598	9 10
5,200 2,780	— —	— —	— —	— —	— —	— —	377,248 207,325	11 12
254,418 2,605,421	— —	— —	— —	— —	— —	— —	254,418 2,605,421	13 14
24,601 455,826	19,720 812,724	— —	— —	75,881 2,703,064	— —	— —	238,035 7,480,396	15 16
—	—	— —	— —	— —	— —	— —	— —	17 18
—	—	— —	— —	— —	— —	— —	— —	— —
—	—	— —	— —	4,927 —	— —	— —	4,927 —	19 20
—	—	— —	— —	65,799 —	— —	— —	517,308 1,879,584	21 22
1,352,613 1,077,784	120,541 322,806	172,219 137,775	— —	45,350 196,100	— —	— —	2,085,620 3,817,445	23 24
3,155,589 15,387,911	25,010 634,538	54,931 1,337,471	90,729 1,454,462	— —	— —	— —	3,638,778 21,927,135	25 26
6,082 127,912	— —	— —	— —	— —	— —	— —	46,161 625,208	27 28
—	—	246,672 3,954,273	— —	— —	— —	— —	246,672 3,954,273	29 30
915,448	— —	— —	— —	2,006,235 —	— —	— —	292,728 3,089,532	31 32
37,435	56,990	21,674	8,308,209	862,691	— —	— —	695,098 9,286,999	33 34
—	—	— —	— —	— —	— —	— —	— —	35 36
27,321,129	2,165,585	5,451,193	9,762,671	16,647,168	— —	— —	214,453,009	37
—	—	— —	— —	— —	— —	— —	— —	— —
—	—	2,256,306 4,553,900	2,087,310 9,969,608	913,196 6,056,263	— —	7,649 115,198	10,284,769 69,160,213	38 39
15,648,294 5,602,387	— —	38,845,732 2,295,783	770,963,122 88,660,759	121,093,122 11,724,236	56,707 23,518	— —	946,702,727 108,641,159	40 41
—	—	1,878,643	46,190,893	2,708,970	— —	— —	50,778,506	42 43
134,534 3,661,174	3,926,683 9,435,819	64,432,411 141,783,520	165,124,967 379,830,363	8,914,220 16,872,122	572,004 755,045	— —	244,115,152 552,352,509	44 45
9,463,361	9,435,819	150,511,846	524,651,623	37,361,591	778,563	113,198	780,932,387	46
—	—	— —	— —	— —	— —	— —	— —	— —
20,146,755 2,510,783	621,275 432,079	1,354,635 230,072	3,445,687 799,030	2,121,461 397,435	— —	— —	37,816,876 6,878,729	47 48
38,764,000	8,715,034	5,830,227	14,780,423	7,112,890	— —	— —	113,233,726	49
—	—	46,348	48,138	36,229	— —	— —	1,424,459	50
10,527,910	800,418	— —	842,615	654,157	— —	— —	17,646,588	51
75,600,813 52,305,204	9,692,025 6,770,210	5,317,338 3,344,568	13,469,848 12,644,098	17,879,395 10,992,348	— —	— —	181,245,787 118,603,283	52 53
18,797,648 25,063,550	943,765 1,588,674	— —	105,695 368,608	2,580,914 3,544,526	— —	— —	50,553,485 68,866,358	54 55
—	—	— —	— —	— —	— —	— —	— —	— —
8,767,540	18,495,611	10,529,430	32,081,431	24,425,380	— —	— —	356,166,833	56
913,342,174	158,932,169	237,653,502	566,502,703	235,428,135	17,537,066	13,137,730	2,847,986,179	57
943,669,456	101,489,787	215,977,233	473,480,540	168,542,078	18,145,162	12,750,304	2,582,300,387	58



MINERAL STATISTICS

TABLE 3. Annual Values of the Mineral Production of Canada since 1900

Year	Metallics	Non-metallics	Fuels	Structural materials	Total	Value per capita
dollars						
1900	40,521,807	1,914,690	15,311,479	6,372,901	64,420,877	13.15
1901	41,939,500	2,713,621	14,047,654	6,803,836	65,804,611	12.25
1902	35,924,651	2,730,425	16,359,722	7,896,836	63,211,634	11.51
1903	33,210,147	2,589,302	17,197,317	8,443,747	61,740,513	10.93
1904	30,924,897	2,807,995	17,858,902	8,182,103	60,073,897	10.31
1905	36,946,212	3,468,408	18,756,112	9,608,267	69,078,999	11.51
1906	41,940,563	4,424,882	21,081,724	11,530,528	79,286,697	12.79
1907	42,426,607	5,021,384	26,254,162	12,863,049	86,865,202	13.55
1908	41,774,362	5,188,269	26,954,515	11,339,955	85,557,101	12.91
1909	44,156,841	4,593,142	26,548,109	16,533,349	91,831,441	13.50
1910	49,438,873	5,109,754	32,647,404	19,627,592	106,823,623	15.29
1911	46,105,423	5,659,746	28,746,214	22,709,611	103,220,994	14.32
1912	61,172,753	6,570,980	38,729,694	28,794,869	135,048,296	18.28
1913	66,361,351	7,402,849	41,060,860	30,809,752	145,634,812	19.08
1914	59,386,619	6,165,107	37,302,122	26,009,227	128,863,075	16.36
1915	75,814,841	7,254,732	36,118,839	17,920,759	137,109,171	17.18
1916	106,319,365	10,245,689	43,169,294	17,467,185	177,201,534	22.15
1917	106,455,147	14,566,995	48,787,368	19,837,311	189,646,821	23.53
1918	114,549,152	17,192,967	60,428,979	19,130,799	211,301,857	25.93
1919	73,262,793	16,676,377	59,325,710	27,421,510	176,686,390	21.26
1920	77,939,630	22,260,697	85,767,250	41,892,088	227,859,665	26.63
1921	49,343,232	10,148,665	77,694,017	34,737,428	171,923,342	19.56
1922	61,785,707	10,986,120	71,990,674	39,534,741	184,297,242	20.66
1923	83,764,403	14,097,925	78,465,622	37,751,381	214,079,331	23.78
1924	102,056,235	12,374,278	59,770,024	35,380,869	209,583,406	22.92
1925	116,951,996	14,628,048	57,354,055	37,649,234	226,583,333	24.38
1926	115,090,770	16,643,022	68,743,933	39,959,398	240,437,123	25.44
1927	113,349,051	17,771,709	71,426,516	44,809,419	247,356,695	25.67
1928	131,819,402	19,019,744	74,413,160	49,737,181	274,982,487	27.96
1929	154,282,736	21,245,279	76,787,397	58,534,834	310,650,246	31.00
1930	142,614,237	15,347,391	68,184,485	53,727,465	279,873,578	27.42
1931	120,794,977	11,028,311	54,453,143	44,158,295	230,434,726	22.21
1932	111,943,049	7,839,551	49,047,342	22,398,283	191,228,225	18.00
1933	147,206,859	10,061,071	47,778,436	16,696,687	221,743,153	20.85
1934	194,213,956	10,558,174	54,262,099	19,286,761	278,320,990	25.91
1935	222,139,223	12,579,334	54,824,200	23,215,400	312,758,157	28.84
1936	259,988,203	16,782,608	59,983,320	25,770,741	362,524,872	33.11
1937	335,000,751	22,536,303	65,828,879	34,869,699	456,235,632	41.48
1938	324,064,074	20,122,661	64,803,294	33,878,666	442,868,695	39.71
1939	343,453,866	25,114,106	70,671,328	35,362,759	474,602,059	42.12
1940	382,440,214	26,074,296	78,837,874	42,472,651	529,625,035	46.55
1941	395,193,386	34,532,635	85,141,997	45,373,272	560,241,290	48.59
1942	391,540,411	37,329,163	92,169,291	45,729,807	566,768,672	48.63
1943	356,558,751	38,970,577	92,514,384	42,010,254	530,053,966	44.94
1944	308,111,295	37,431,875	97,291,007	42,984,937	485,819,114	40.67
1945	316,962,810	39,841,422	93,531,276	48,419,673	498,755,181	41.31
1946	290,386,425	43,792,717	102,516,888	66,120,221	502,816,251	40.91
1947	395,140,994	54,670,989	110,481,207	84,576,785	644,869,975	51.38
1948	488,287,835	67,097,524	159,736,260	105,127,246	820,248,865	63.97
1949	538,967,258	64,585,216	183,654,473	113,903,079	901,110,026	67.01
1950	617,238,340	94,721,564	201,193,957	132,296,212	1,045,450,073	76.24
1951	745,877,561	115,418,150	232,854,093	151,333,791	1,245,483,595	88.90
1952	728,458,160	124,493,256	263,582,319	168,808,618	1,285,342,353	88.90
1953	709,920,510	124,999,607	314,181,168	187,202,218	1,336,303,503	90.02
1954	802,401,423	128,038,507	352,959,465	204,982,696	1,488,382,091	97.36
1955	1,007,839,501	144,920,841	414,318,015	228,232,439	1,795,310,796	114.37
1956	1,146,349,595	160,341,599	518,761,191	259,453,169	2,084,905,554	129.65
1957	1,159,579,226	169,061,110	564,776,791	296,905,265	2,190,322,392	131.87
1958	1,130,160,395	150,354,802	510,768,681	309,455,160	2,100,739,038	122.99
1959	1,370,648,535	178,216,641	535,577,823	324,577,512	2,409,020,511	137.79
1960	1,406,558,061	197,505,783	565,851,829	322,594,308	2,492,509,981	139.48
1961	1,387,159,036	210,467,786	653,327,802	331,345,763	2,582,300,387	141.59
1962	1,496,433,950	217,453,009	780,932,387	356,166,833	2,850,988,179	153.53

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

1900-1908 total includes \$300,000 estimated value of unreported products, mostly structural materials.

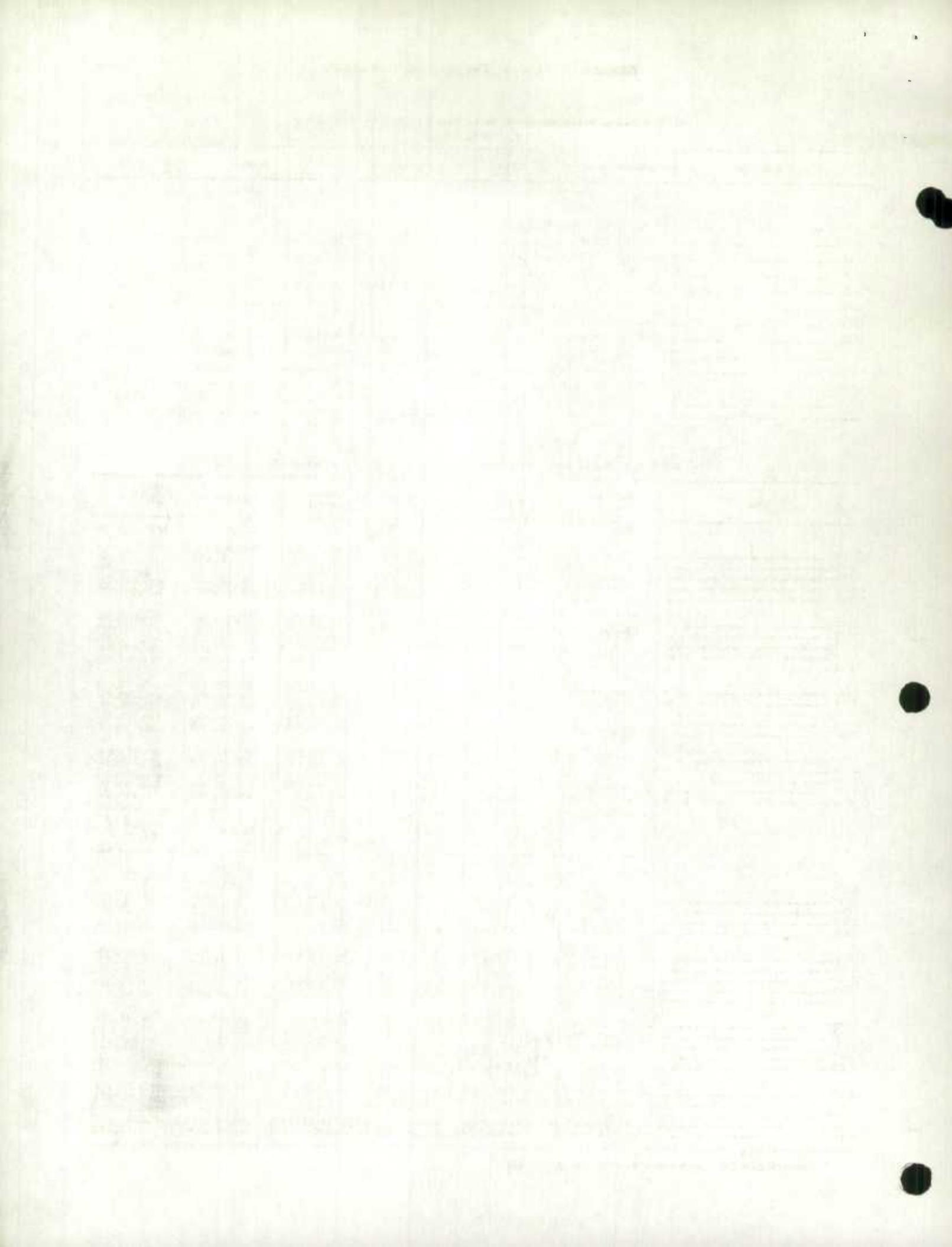


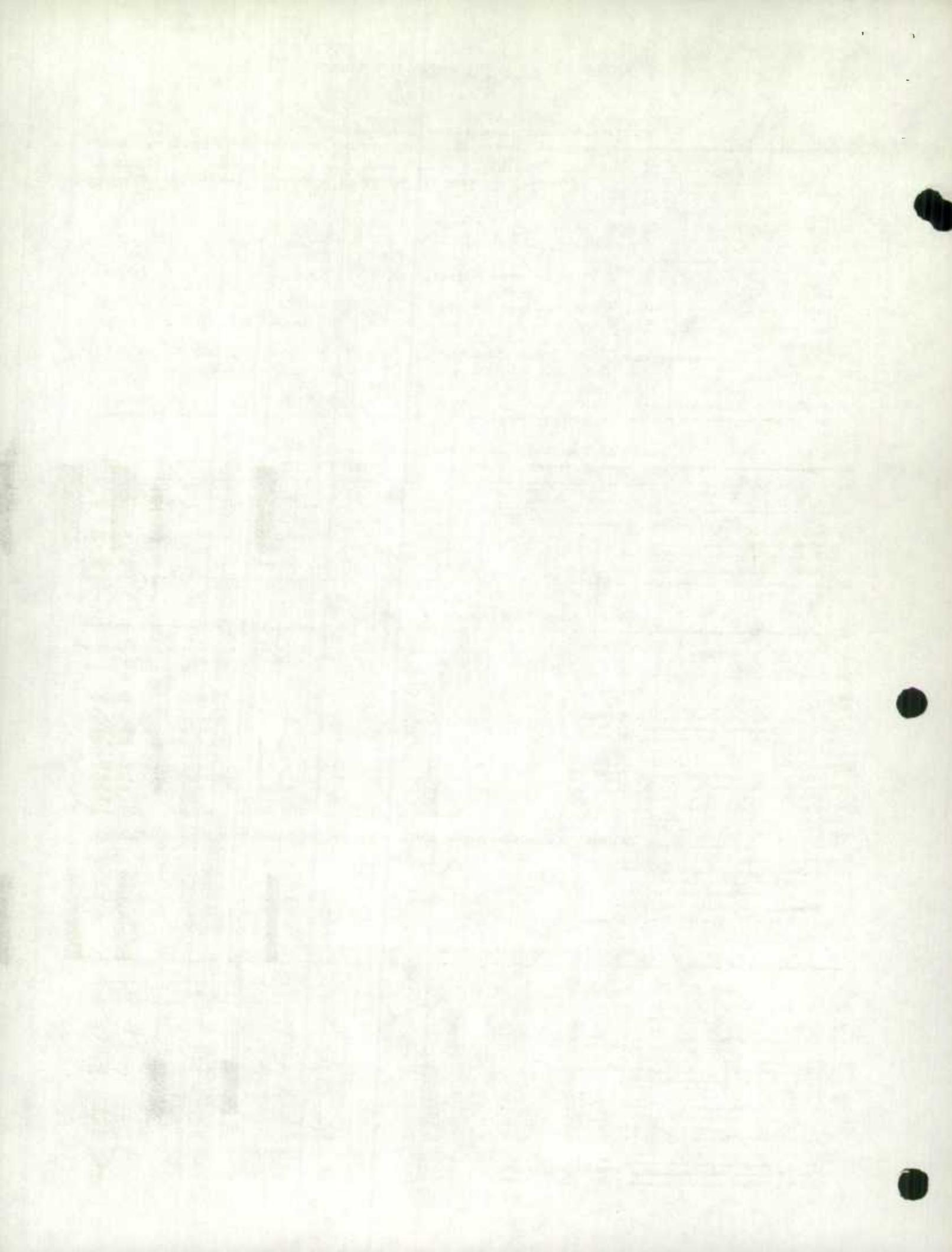
TABLE 4. Quantity Index of Mineral Production since 1924
(1949 = 100)

Year	Index	Year	Index	Year	Index
1924	32.2	1937	79.4	1950	109.5
1925	35.2	1938	83.7	1951	123.4
1926	40.7	1939	90.3	1952	131.0
1927	43.5	1940	96.2	1953	142.1
1928	48.0	1941	101.0	1954	158.7
1929	50.1	1942	99.1	1955	185.2
1930	47.4	1943	88.8	1956	212.3
1931	43.9	1944	79.7	1957	227.8
1932	44.0	1945	77.2	1958	227.0
1933	45.0	1946	74.3	1959	251.1
1934	54.6	1947	78.5	1960	253.3
1935	60.8	1948	90.0	1961	266.9
1936	68.3	1949	100.0	1962	287.4

TABLE 5. Value of Mineral Production, by Provinces, since 1943

Year	Newfound- land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	dollars					
1943	...	..	29,979,837	3,676,834	101,610,678	232,948,959
1944	...	..	33,981,977	4,133,902	90,182,553	210,706,307
1945	...	..	32,220,659	4,182,100	91,518,120	216,541,856
1946	...	..	35,350,271	4,813,166	92,785,148	191,544,429
1947	...	..	34,255,560	5,812,943	115,151,635	249,797,671
1948	...	..	56,400,245	7,003,285	152,038,667	294,239,673
1949	27,583,615	..	56,092,830	7,134,009	165,021,513	323,368,644
1950	25,824,047	..	59,482,173	12,756,975	220,176,517	366,801,525
1951	32,410,443	..	59,727,256	9,564,617	255,530,071	444,567,203
1952	32,512,313	..	64,552,383	11,298,960	270,483,962	444,669,412
1953	33,760,622	..	67,364,408	11,663,618	251,881,781	465,877,074
1954	42,898,033	..	73,450,698	12,468,322	278,818,070	496,747,571
1955	68,462,956	..	67,133,539	15,759,744	357,010,045	583,954,662
1956	84,349,006	..	66,092,274	18,258,302	422,484,410	650,823,363
1957	82,682,263	..	68,058,743	23,120,689	406,055,757	748,824,322
1958	64,994,754	..	62,706,891	16,275,971	365,706,489	789,601,868
1959	72,156,996	4,559,171	62,879,647	18,133,290	440,897,186	970,762,201
1960	86,637,123	1,172,587	65,453,531	17,072,739	446,202,726	983,104,412
1961	91,618,709	606,644	61,693,156	18,804,385	455,522,933	943,669,456
1962	101,858,960	677,906	61,651,093	21,811,575	519,453,166	913,342,174
	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Northwest Territories ¹
	dollars					
1943	13,412,266	26,735,984	48,941,210	68,442,386	1,625,819	2,679,993
1944	13,830,406	22,291,848	51,066,662	57,246,071	939,319	1,440,069
1945	14,429,423	22,336,074	51,753,237	64,063,842	1,239,058	470,612
1946	16,403,549	24,480,900	60,082,513	74,622,846	1,693,904	1,039,525
1947	18,236,763	32,594,016	67,432,270	116,772,621	2,095,508	1,720,983
1948	26,081,349	34,517,208	93,211,299	148,223,614	4,265,910	4,267,485
1949	23,839,638	36,054,536	113,728,425	136,385,911	5,099,176	6,801,729
1950	32,691,173	35,983,923	135,758,940	138,888,205	9,035,696	8,050,899
1951	30,045,992	51,032,953	168,144,211	176,278,932	9,793,170	8,288,747
1952	25,105,045	49,506,094	196,811,654	170,071,244	11,386,451	8,944,835
1953	25,264,112	48,081,970	248,863,295	158,487,812	14,738,562	10,300,230
1954	35,106,922	68,216,009	279,042,735	158,630,867	16,588,664	26,414,000
1955	62,018,231	85,150,128	294,239,673	189,524,574	14,724,750	25,597,821
1956	67,809,407	122,744,698	411,171,898	203,277,828	15,656,434	22,157,935
1957	63,464,286	173,461,037	410,211,763	178,931,120	14,111,798	21,400,615
1958	57,217,569	209,940,966	345,939,248	151,149,136	12,310,756	24,895,390
1959	55,512,410	210,042,051	376,215,593	159,395,092	12,592,378	25,874,496
1960	58,702,697	212,093,225	395,344,010	186,261,646	13,330,198	27,135,087
1961	101,489,787	215,977,233	473,480,540	188,542,078	12,750,304	18,145,162
1962	158,932,169	240,653,502	566,502,703	235,428,135	13,137,730	17,537,066

¹ Values of pitchblend products not included from 1941 to 1953.



MINERAL STATISTICS

TABLE 6. Mineral Production of Newfoundland, 1960-62

Product	1960		1961		1962	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:						
Copper	lb.	27,726,518	\$ 8,398,362	31,503,313	\$ 9,195,817	34,616,626
Gold	troy oz.	13,515	458,834	14,429	511,652	13,966
Iron ore	short ton	7,611,365	54,673,717	7,611,340	59,883,125	7,986,910
Lead	lb.	48,043,926	5,131,091	43,936,710	4,483,938	50,660,572
Silver	troy oz.	1,271,126	1,130,158	1,145,105	1,079,376	1,181,648
Zinc	lb.	68,415,856	9,133,517	69,277,362	8,722,020	65,081,560
Non-metallics:						
Feldspar	ton	..	1,820,769	..	1,951,800	..
Gypsum	"	34,346	141,668	40,699	101,696	83,992
Pyrophyllite (talc)	"	20,225	262,925	24,425	404,059	22,794
Structural materials:						
Cement	"	93,160	1,688,664	86,549	1,789,980	96,916
Clay products	ton	..	83,435	..	75,890	..
Sand and gravel	ton	3,912,533	3,069,395	3,383,724	2,777,393	4,250,942
Stone	"	380,843	644,588	322,820	633,963	227,707
Totals		...	86,637,123	...	91,618,709	...
						101,858,960

TABLE 7. Mineral Production of Prince Edward Island, 1960-62

Products	1960		1961		1962	
	Quantity	Value	Quantity	Value	Quantity	Value
Structural materials:						
Sand and gravel	ton	474,184	\$ 422,587	544,497	381,644	531,196
Stone	"	750,000	750,000	225,000	225,000	225,000
Totals		...	1,172,587	...	606,644	..
						677,506

TABLE 8. Mineral Production of Nova Scotia, 1960-62

Products	1960		1961		1962	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:						
Copper	lb.	-	-	-	-	407,418
Gold	troy oz.	3	102	-	-	-
Lead	lb.	-	-	-	-	5,363,377
Silver	troy oz.	-	-	-	-	724,245
Zinc	lb.	-	-	-	-	1,513,140
Non-metallics:						
Barite	ton	130,719	1,241,624	175,926	1,647,731	220,089
Gypsum	"	4,490,427	7,515,244	4,113,168	5,693,653	4,451,072
Peat moss	"	1,657	68,784	4,954	217,319	4,734
Quartz	"	9,281	52,813	1,044	5,772	2,502
Salt	"	163,901	2,256,423	225,875	2,659,119	312,519
Fuels:						
Coal	"	4,570,240	44,981,257	4,300,758	41,716,107	4,204,779
Structural materials:						
Clay products	ton	8,717,693	1,673,618	5,574,377	1,582,153	4,375,842
Sand and gravel	"	914,937	6,020,239	1,021,880	6,513,612	548,834
Stone		..	1,643,427	..	1,657,690	1,630,708
Totals		...	65,453,531	...	61,693,156	..
						61,651,093

TABLE 9. Mineral Production of New Brunswick, 1960-62

Product	1960		1961		1962	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:						
Copper	lb.	-	-	-	-	7,347,949
Gold	troy oz.	-	-	-	-	553
Lead	lb.	-	-	-	-	3,758,717
Silver	troy oz.	-	-	-	-	178,321
Zinc	lb.	-	-	-	-	4,996,488
Non-metallics:						
Grindstone	ton	10	2,000	10	2,000	10
Gypsum	"	90,892	267,002	85,330	136,856	91,835
Peat moss	"	21,062	832,720	32,688	1,240,479	35,010
Sulphur, in sulphides		-	-	-	-	-
Fuels:						
Coal	ton	1,028,064	\$ 8,663,339	867,903	7,526,647	815,529
Natural gas	McF.	98,701	151,603	96,318	143,215	95,750
Crude oil, crude	bbl.	14,148	19,807	12,024	16,833	10,333

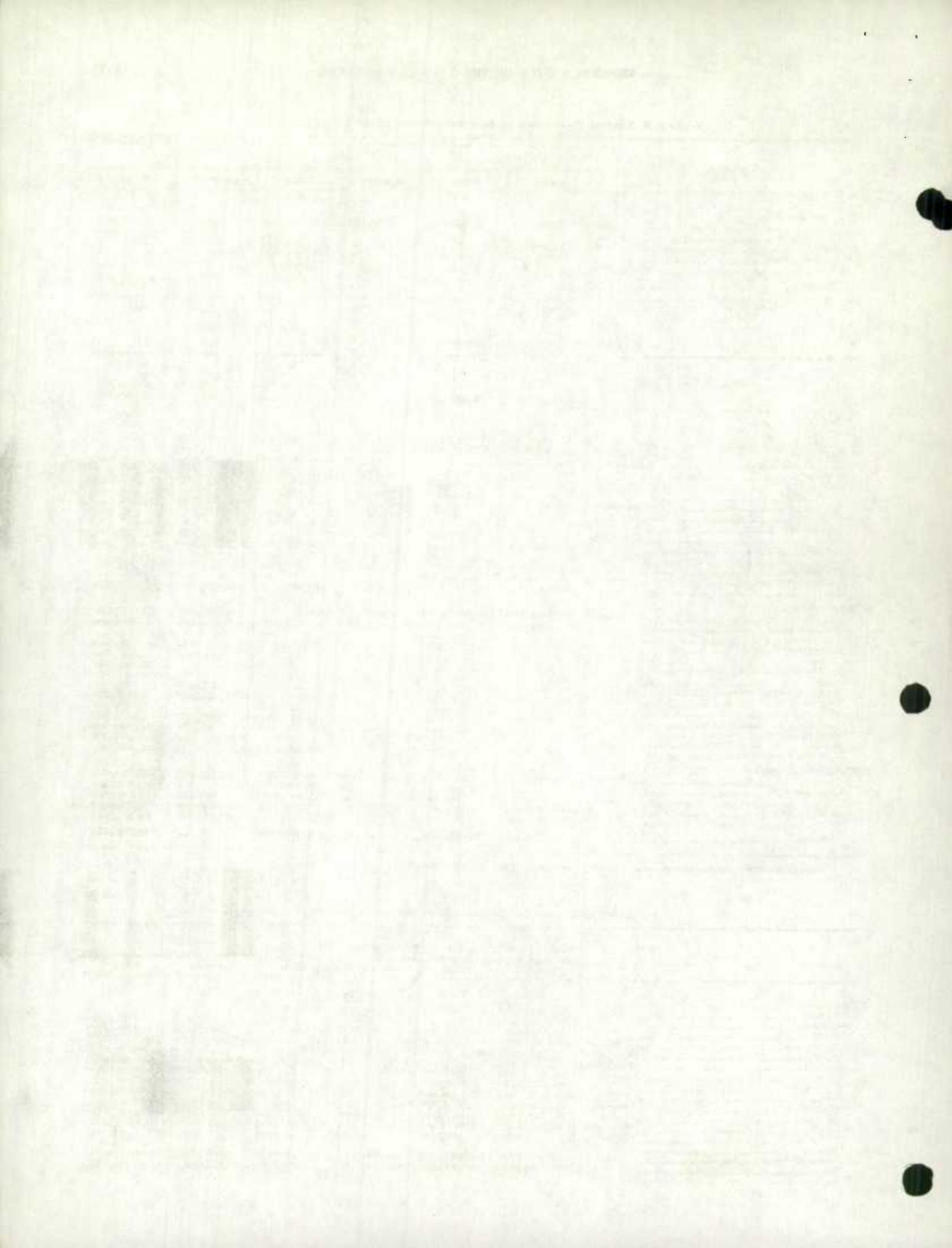


TABLE 9. Mineral Production of New Brunswick, 1960-62 - Concluded

Product	1960		1961		1962	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
Structural materials:						
Cement	ton	163,245	2,546,622	170,953	2,754,052	169,823
Clay products		705,366		744,293		822,400
Lime	ton	16,727	379,258	13,820	308,027	17,341
Sand and gravel	"	6,184,924	2,091,227	5,014,234	2,776,139	5,128,365
Stone	"	1,883,867	1,413,795	2,957,886	3,155,844	2,950,906
Totals		...	17,072,739	...	18,804,383	...
						21,811,575

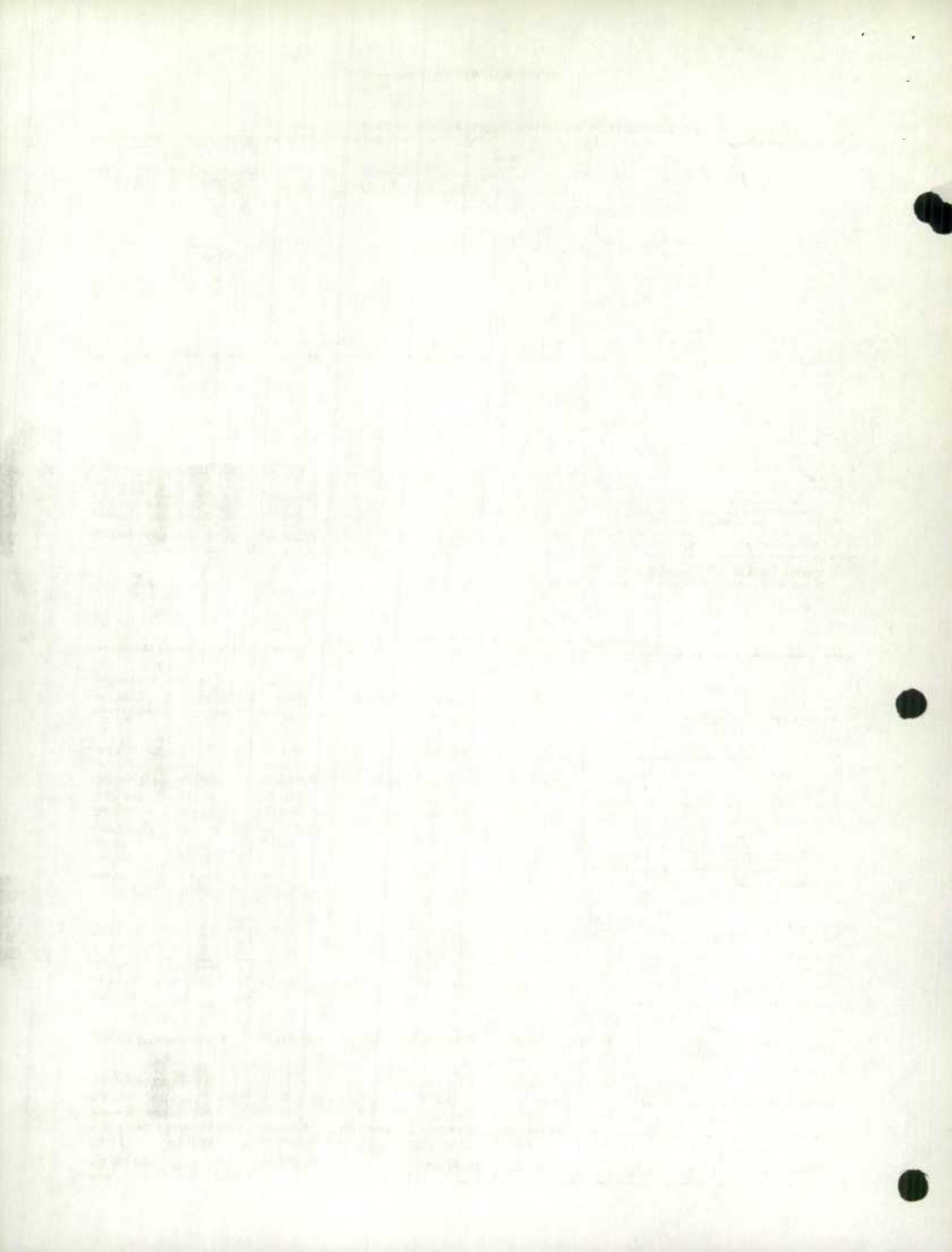
TABLE 10. Mineral Production of Quebec,¹ 1960-62

Product	1960		1961		1962	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
Metallics:						
Bismuth	lb.	172,983	297,018	174,832	297,670	196,501
Cadmium	"	66,499	94,429	—	—	66,293
Cobalt (Co ₃ O ₄)	"	—	—	62,229	66,619	1,016,314
Copper	"	314,939,446	95,395,158	298,013,711	86,990,202	294,851,320
Gold	troy oz.	1,035,914	35,169,280	1,054,029	37,375,868	993,560
Iron (ore)		10,972,979	—	—	14,720,064	9,845,669
Iron ore	ton	7,457,971	61,752,485	5,639,931	53,627,608	11,161,582
Lead	lb.	5,338,901	570,195	6,784,464	692,694	9,432,012
Molybdenum	"	762,207	1,005,880	771,358	1,092,201	817,705
Nickel	"	—	—	—	—	3,080,117
Selenium	"	279,759	1,958,313	214,998	1,397,478	276,409
Silver	troy oz.	4,115,105	3,658,740	4,315,844	4,068,115	4,603,019
Titanium	lb.	29,925	104,738	63,904	309,934	45,724
Titanium ore	ton	2,947	16,265	—	—	—
Zinc	lb.	99,614,995	13,298,602	108,010,062	13,598,467	141,473,544
Non-metallics:						
Asbestos	ton	1,054,424	107,788,172	1,103,545	115,944,729	1,125,131
Feldspar	"	13,862	239,273	10,507	229,626	9,994
Graphite	"	—	—	—	146	—
Iron oxides (ochre)	"	909	76,780	808	66,199	771
Lignite	lb.	204,666	84,135	536,190	392,871	499,736
Magnesite dolomite and brucite		—	3,279,021	—	3,064,403	3,431,873
Mica	ton	617	85,272	687	102,390	351
Mineral mineral waters	Imp. gal.	372,799	199,874	357,948	205,923	372,048
Pearl moss	ton	56,731	1,342,338	75,741	1,788,349	77,889
Pyrite	"	—	1,854,366	—	1,729,140	—
Quartz	ton	357,165	1,835,960	302,432	1,717,502	392,395
Shale, stone and talc	"	14,222	157,611	16,274	178,911	15,285
Sulphur in smelter gases	"	—	83,273	—	127,178	—
Titanium dioxide, etc.	"	—	12,947,000	—	16,723,743	—
Structural materials:						
Cement	ton	1,875,997	28,315,159	2,029,159	31,412,617	2,242,591
Clay products		—	8,093,038	—	8,195,790	7,450,131
Lime	ton	399,874	4,449,164	407,427	5,086,976	365,473
Sand and gravel	"	46,255,963	22,620,093	44,126,199	21,793,232	44,000,000
Stone	"	20,394,509	28,458,115	22,648,010	32,525,279	24,173,016
Totals		...	446,202,726	...	453,522,933	...
						101,453,151

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

TABLE 11. Mineral Production of Ontario, 1960-62

Product	1960		1961		1962	
	Quantity	Value	Quantity	Value	Quantity	Value
		\$		\$		\$
Metallics:						
Bismuth	lb.	37,935	45,402	19,923	22,388	—
Cadmium	"	134,801	159,241	99,355	100,881	123,511
Cobalt	"	3,258,401	6,312,921	2,884,420	4,309,912	2,649,193
Copper	"	412,544,528	123,750,235	423,293,547	122,421,860	377,990,690
Gold	troy oz.	2,732,673	92,774,248	2,637,720	93,533,551	2,411,249
Iron ore	short ton	5,325,197	48,399,442	5,772,664	62,350,773	6,444,936
Lead	lb.	1,661,896	177,490	1,670,535	170,562	2,287,087
Magnesium	"	14,577,138	4,313,987	15,270,618	4,307,570	17,631,310
Nickel	"	403,300,283	277,924,234	392,435,773	295,423,149	333,163,344
Platinum group	troy oz.	483,585	28,871,955	418,278	24,534,349	470,782
Selenium	lb.	144,500	1,011,500	164,800	1,071,200	142,915
Silver	troy oz.	11,220,823	9,976,434	8,870,402	8,367,240	9,383,445
Titanium	lb.	7,450	26,075	8,050	39,043	7,011
Thorium		—	—	—	—	—
Uranium (U ₃ O ₈)	lb.	19,793,727	211,983,533	14,970,594	151,060,610	12,805,203
Zinc	"	90,459,368	12,076,326	103,874,146	13,077,755	126,264,684



MINERAL STATISTICS

TABLE 11. Mineral Production of Ontario, 1960-62 - Concluded

Product		1960		1961		1962	
		Quantity	Value	Quantity	Value	Quantity	Value
Non-metallics:			\$		\$		\$
Arsenite (A_2O_3) ¹	lb.	1,724,326	70,400	419,300	16,772	160,750	6,832
Asbestos	ton	23,284	4,128,920	25,047	4,362,668	35,551	5,686,720
Fluorspar		..	100,811	..	38,400	-	-
Garnet	ton	32	4,480	80	3,200	-	-
Gypsum	"	355,603	871,408	425,287	991,944	435,140	1,007,818
Mica	"	173	5,745	192,960	14,962	251	9,248
Natural mineral waters	Imp. gal.	2,626	1,800	6,985	2,786	5,200	2,780
Nepheline syenite	ton	240,636	2,891,095	240,320	2,572,169	254,418	2,603,421
Peat moss	"	13,566	338,611	15,113	251,352	24,801	455,826
Pyrite pyrrhotite		..	762,661	-	-	-	-
Quartz ²	ton	1,659,410	998,281	1,540,016	827,061	1,352,613	1,077,784
Salt	"	3,007,599	13,994,545	2,861,705	13,586,373	3,155,589	15,367,911
Sulphur, in smelter gas		..	957,660	..	823,682	..	915,442
Sulphur, elemental		..	28,057	..	31,376	..	37,435
Talc	ton	7,189	102,645	7,417	107,660	8,082	127,912
Fuels:							
Natural gas	Mcf.	16,987,056	6,573,990	14,544,165	5,614,048	15,648,294	5,602,387
Petroleum, crude	bbl.	1,005,030	3,150,065	1,149,087	3,546,740	1,134,534	3,661,174
Structural materials:							
Cement	ton	2,007,044	30,699,800	2,226,923	35,671,569	2,510,783	38,704,090
Clay products		..	20,191,325	..	19,036,556	..	20,146,786
Lime	ton	990,088	12,275,630	865,130	11,548,132	910,930	10,527,910
Sand and gravel	"	77,660,833	43,929,708	70,208,199	40,344,071	76,600,813	52,365,204
Stone	"	17,938,583	23,220,659	18,381,843	23,493,092	18,797,648	25,043,550
Totals		...	983,104,412	...	943,669,456	...	913,342,174

¹ Includes some arsenic recovered from foreign ores.
² Includes low-grade silica sand for fluxing purposes.

TABLE 12. Mineral Production of Manitoba, 1960-62

Product		1960		1961		1962	
		Quantity	Value	Quantity	Value	Quantity	Value
Metallics:			\$		\$		\$
Cadmium	lb.	110,138	156,396	182,622	292,195	189,272	325,548
Cobalt	"	301,410	450,095	298,477	441,631	832,729	1,579,397
Copper	"	25,585,597	7,749,877	24,908,723	7,271,252	25,475,004	7,897,714
Gold	troy oz.	52,762	1,791,270	57,747	2,047,709	66,259	2,553,569
Lead	lb.	2,074,660	221,574	6,107,331	623,558	7,584,246	752,357
Nickel	"	18,118,768	12,400,485	65,957,008	50,039,745	122,963,069	102,586,082
Selenium	"	24,358	170,506	9,544	62,036	11,477	65,993
Silver	troy oz.	501,637	446,005	767,543	723,486	847,879	987,779
Tellurium	lb.	1,825	6,388	1,059	5,136	1,008	6,048
Zinc	"	48,780,938	6,512,255	93,017,677	11,710,925	99,840,226	12,080,667
Non-metallics:							
Gypsum	ton	122,063	366,189	122,233	366,699	122,870	338,527
Peat moss	"	12,496	468,167	18,370	731,896	19,720	812,724
Quartz	"	120	179	165,247	339,730	120,541	322,806
Salt	"	21,925	561,161	23,103	629,128	25,010	634,538
Sulphur, elemental		-	-	-	-	..	56,990
Fuels:							
Petroleum, crude	bbl.	4,764,045	10,690,384	4,480,348	10,156,000	3,926,683	9,435,819
Structural materials:							
Cement	ton	429,786	8,105,802	395,134	7,768,334	432,079	8,715,034
Clay products		..	813,135	..	623,966	..	621,275
Lime	ton	48,383	834,698	48,791	633,238	46,348	800,418
Sand and gravel	"	10,860,566	5,907,596	7,402,385	5,817,415	9,692,025	6,770,210
Stone	"	673,598	1,050,535	594,921	1,005,707	943,765	1,563,674
Totals		...	58,702,697	...	101,489,787	...	158,932,724

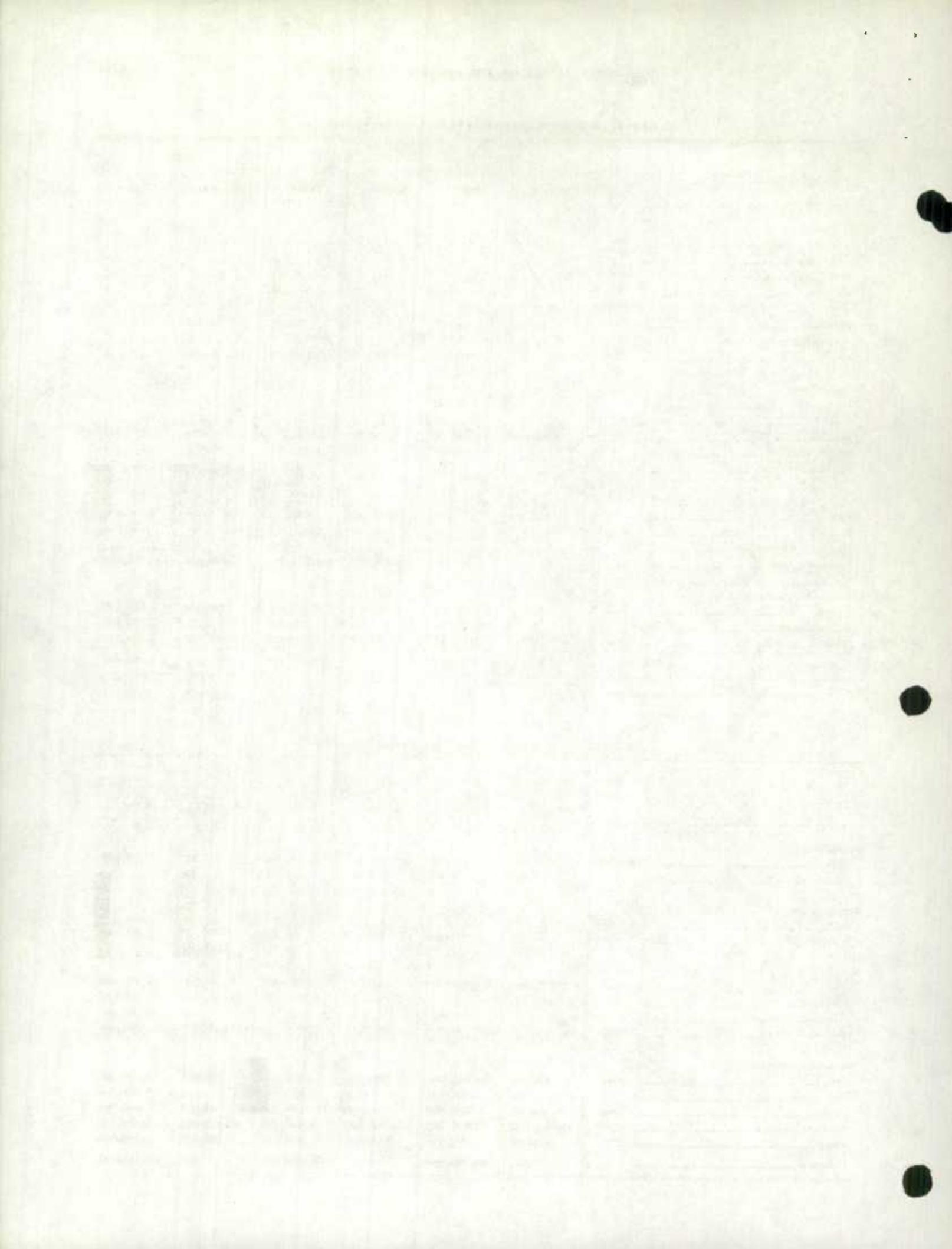


TABLE 13. Mineral Production of Saskatchewan, 1960-62

⁴ Low-grade silica sand for fluxing purposes.

TABLE 14. Mineral Production of Alberta, 1960-62

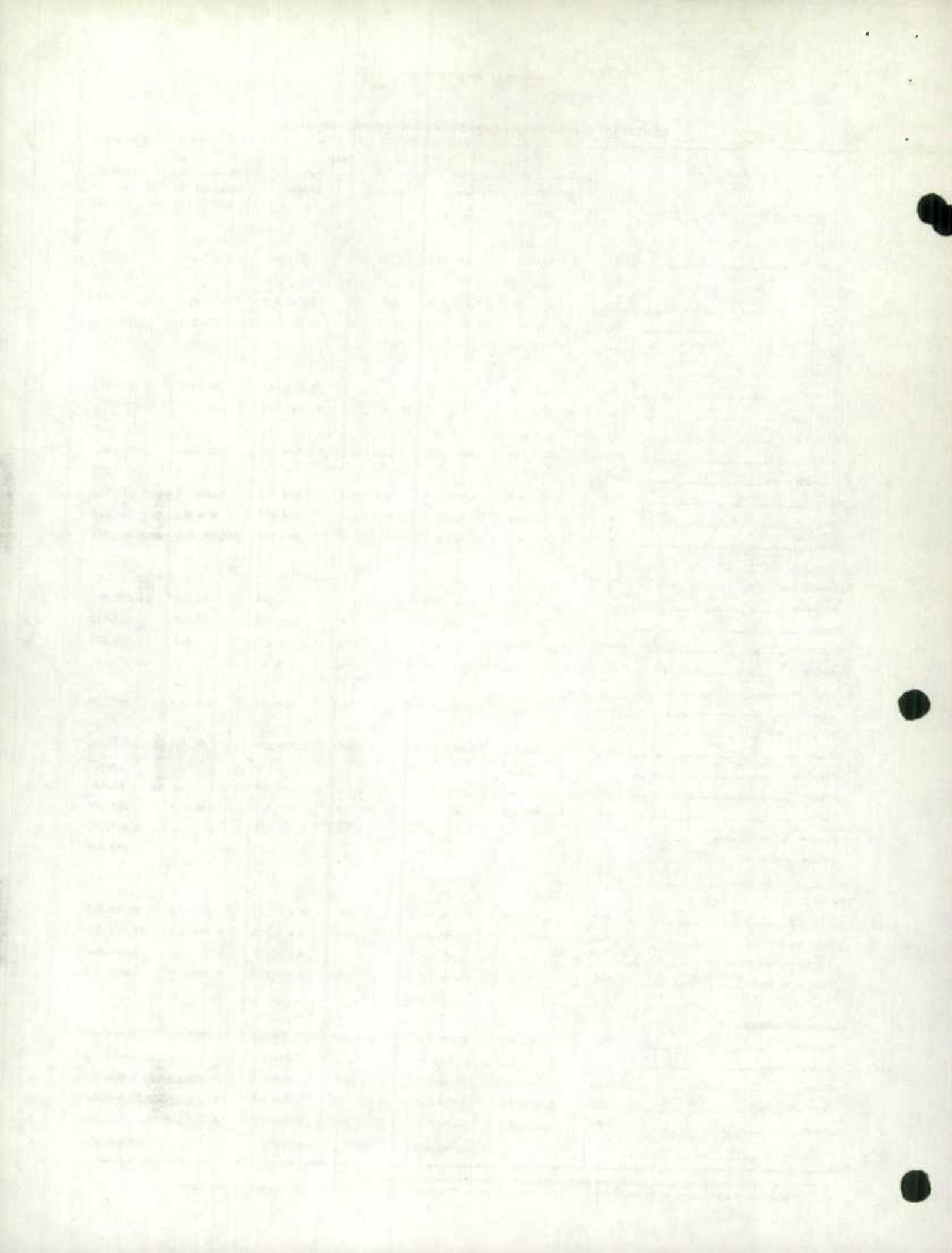


TABLE 15. Mineral Production of British Columbia,¹ 1960-62

Product		1960		1961		1962	
		Quantity	Value	Quantity	Value	Quantity	Value
Metallics:							
Antimony	lb.	1,651,786	\$38,482	1,331,297	469,948	1,931,397	\$78,223
Bismuth	"	213,009	419,628	283,363	637,567	228,601	507,494
Cadmium	"	1,778,866	2,525,990	1,771,508	2,834,413	2,086,692	3,839,513
Copper	"	33,117,729	9,982,552	31,690,608	9,205,938	108,979,144	33,768,394
Gold	troy oz.	212,859	7,226,563	164,467	5,832,000	159,492	5,966,596
Indium		..	..	..	..	..	..
Iron ore	ton	1,156,297	10,256,879	1,335,068	12,082,541	1,793,848	18,326,911
Lead	lb.	333,894,197	35,659,900	385,600,537	39,369,815	335,282,537	33,260,028
Molybdenum	"	5,414	9,500	—	—	—	—
Nickel	"	3,779,878	2,645,915	4,180,677	3,194,037	3,476,467	2,902,850
Platinum group	troy oz.	—	—	—	—	5	375
Silver	"	8,447,440	7,510,619	8,391,640	7,909,960	8,186,937	7,207,722
Tin	lb.	621,718	522,243	1,119,350	727,578	650,941	442,640
Zinc	"	407,666,190	54,423,436	388,972,286	48,971,608	413,431,339	50,025,192
Non-metallics:							
Asbestos	ton	40,748	9,482,923	45,103	8,648,503	55,132	10,297,360
Barite	"	23,573	220,588	15,478	151,388	6,511	57,062
Diatomite	"	44	1,430	214	8,817	211	10,228
Fluor spar		..	240	—	—	—	—
Gemstones		..	..	..	..	..	..
Gypsum	ton	112,400	337,200	153,300	459,900	147,900	443,700
Mica (schist)	"	61	3,186	250,000	8,025	—	—
Pearl moss	"	80,272	3,037,515	77,165	3,065,692	75,881	2,703,064
Pozzolan		—	—	..	2,000	..	4,927
Pyrite		..	699,351	..	101,426	..	65,799
Quartz	ton	64,887	272,433	40,967	171,877	45,350	196,100
Sulphur, in smelter gas		..	1,813,690	..	1,757,250	..	2,006,235
Sulphur, elemental		..	582,500	..	1,092,000	..	862,691
Fuels:							
Coal	ton	843,868	5,584,017	964,663	6,453,373	913,196	6,056,263
Natural gas	Mcf.	85,592,166	7,587,403	103,018,986	9,714,690	121,093,122	11,724,236
Natural gas by-products		..	593,648	..	2,756,614	..	2,708,970
Petroleum, crude	bbl.	867,057	1,626,590	1,017,826	1,659,873	8,914,220	16,872,122
Structural materials:							
Cement	ton	384,853	6,432,752	417,366	7,122,046	397,435	7,112,890
Clay products		..	1,984,607	..	2,091,353	..	2,121,461
Lime	ton	30,765	603,541	32,616	602,633	36,229	654,157
Sand and gravel	"	15,669,293	10,527,250	14,279,191	9,087,792	17,879,395	10,992,346
Stone	"	2,255,911	3,149,075	2,709,691	3,533,943	2,580,914	3,544,526
Totals		...	186,261,646	...	188,542,078	...	235,428,133

¹ There is also in this province an important production of aluminium from imported ores.² Cadmium production data were revised to 1,771,508 pounds, value \$2,834,413. Revision was not incorporated in the table.

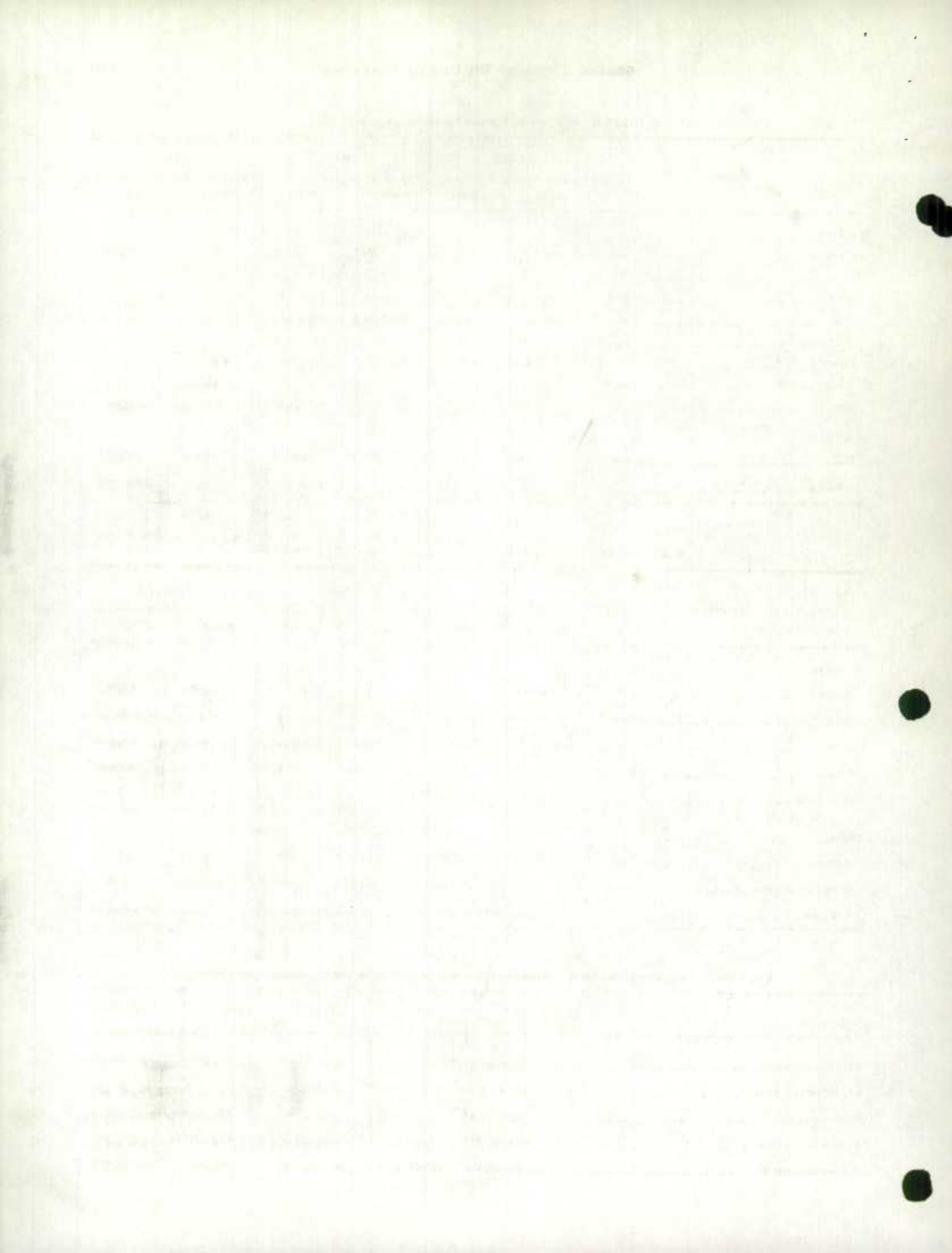


TABLE 16. Mineral Production of Yukon, 1960-62

Product	1960		1961		1962	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:		\$		\$		\$
Cadmium	lb.	145,496	206,604	142,685	226,296	134,493
Copper	"	-	-	880,773	257,098	429,000
Gold	troy oz.	78,115	2,652,004	66,878	2,371,494	54,805
Lead	lb.	20,286,871	2,186,638	16,769,815	1,712,198	16,290,125
Platinum group	troy oz.	19	1,553	-	-	-
Silver	"	7,217,361	6,416,956	6,937,086	6,538,897	6,482,244
Tungsten (WO_3)	lb.	-	-	-	-	3,580
Zinc	"	13,402,699	1,789,287	12,137,416	1,528,100	11,688,876
Fuels:						
Coal	ton	6,470	97,158	7,703	114,221	7,649
Totals .....		...	13,330,198	...	12,750,304	...
						13,137,730

TABLE 17. Mineral Production of the Northwest Territories, 1960-62

Product	1960		1961		1962	
	Quantity	Value	Quantity	Value	Quantity	Value
Metallics:		\$		\$		\$
Copper	lb.	1,040,000	315,016	926,480	270,440	628,801
Gold	troy oz.	418,104	14,194,631	407,474	14,449,028	400,292
Nickel	lb.	3,813,778	2,869,645	3,409,410	2,804,789	1,801,002
Silver	troy oz.	79,473	70,659	77,890	73,419	72,802
Uranium (U_3O_8)	lb.	1,077,211	9,231,698	-	-	-
Fuels:						
Natural gas	Mcf.	39,785	12,219	41,678	17,326	56,707
Petroleum, crude	bbl.	468,545	641,219	516,979	730,160	572,004
Totals .....		...	27,135,087	...	18,145,162	...
						17,537,066

TABLE 18. Tonnage of Ore Mined and Rock Quarried in the Canadian Mining Industry, 1958-62

	1958	1959	1960	1961	1962
Gold-quartz ores	14,766,582	14,246,860	14,725,586	14,353,022	13,659,916
Copper-gold-silver ores	11,484,960	12,436,105	13,973,786	15,008,993	17,744,713
Silver-cobalt ores	223,609	197,449	220,753	233,781	234,621
Silver-lead-zinc ores	5,869,872	5,708,625	5,831,613	5,872,303	6,234,523
Nickel-copper ores	12,861,918	18,964,386	20,835,188	21,639,948	17,970,652

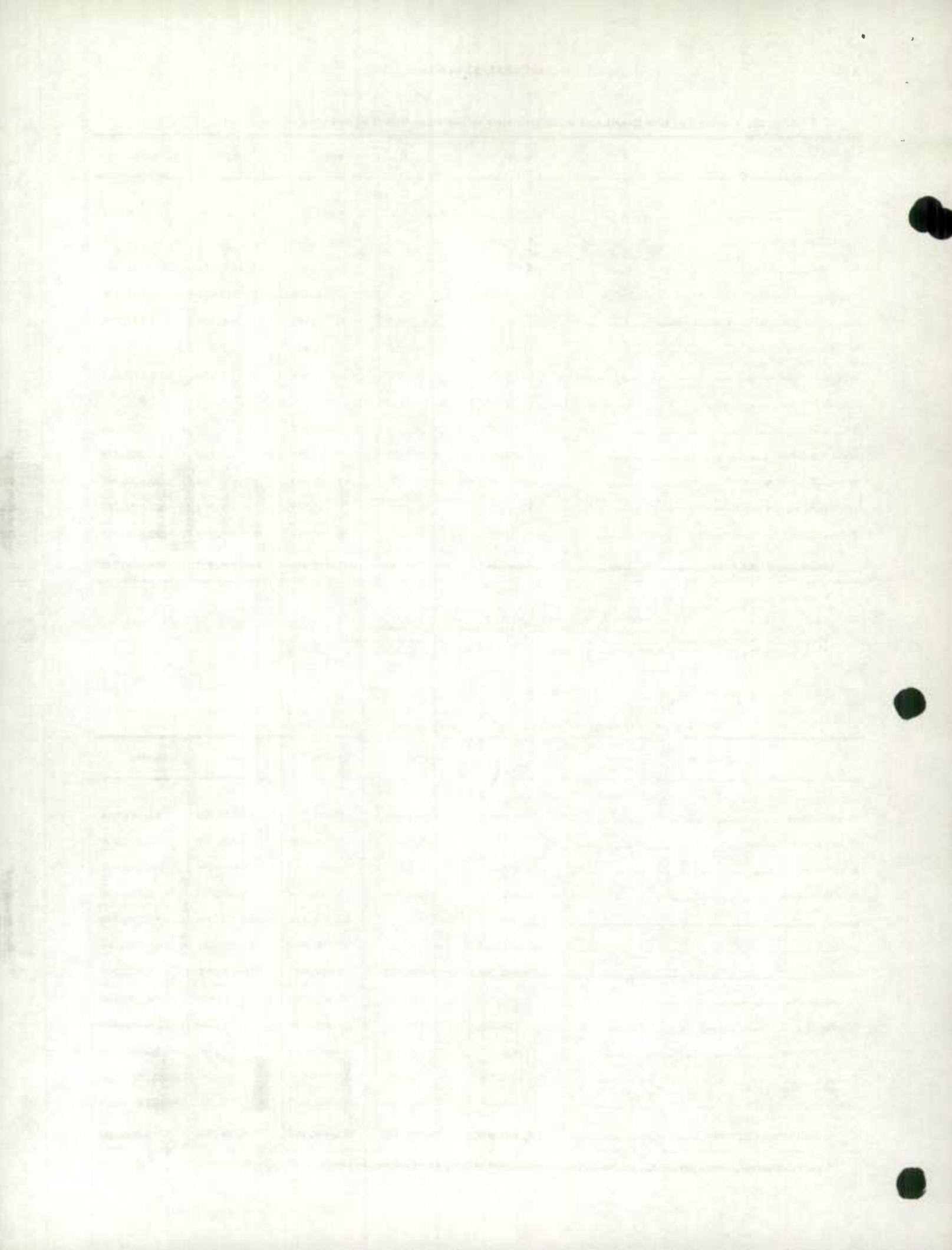


TABLE 18. Tonnage of Ore Mined and Rock Quarried in the Canadian Mining Industry, 1958-62 - Concluded

	1958	1959	1960	1961	1962
Bronzes	20,357,239	32,398,057	32,957,009	32,712,955	49,876,311
Miscellaneous metals ¹	13,171,208	15,129,295	13,036,867	9,602,346	8,542,671
Asbestos	22,443,060	23,105,241	33,228,170	38,444,213	42,212,705
Feldspar and nepheline syenite	332,265	413,808	331,136	337,641	343,905
Quartz, exclusive of sand (shipments)	737,088	1,039,021	1,279,762	946,430	1,112,129
Cypsum and anhydrite	3,976,714	5,983,345	5,093,162	5,059,758	5,398,527
Talc and soapstone	37,314	43,762	51,487	68,229	67,069
Iron oxides	2,822	2,633	2	2	2
Rock salt	780,094	1,244,906	1,320,718	1,348,728	1,867,584
Other non-metals	803,635	1,418,454	695,367	843,449	1,218,142
Stone, all kinds, quarried ²	38,156,647	46,439,535	45,359,449	48,938,804	50,553,485
Stone used for the manufacture of cement	8,473,596	7,963,129	7,768,119	8,145,376	9,023,162
Estimated rock for the manufacture of lime	2,831,886	3,062,152	2,669,574	2,592,831	2,668,450
Totals (other than coal)	157,069,182	189,796,763	199,377,746	206,148,807	228,728,595

¹ Uranium ore is not included prior to 1956.Data for the years 1922-46 are shown in *Mineral Production of Canada, 1946*.Data for the years 1947-51 are shown in *General Review of the Mining Industry, 1951*.Data for the years 1952-56 are shown in *General Review of the Mining Industry, 1956*.² Included in "Other non-metals".³ Excludes stone used to manufacture cement and lime.TABLE 19. Tonnage of Ore Mined and Rock Quarried,⁴ by Provinces, 1958-62

Province	1958	1959	1960	1961	1962
Newfoundland	7,378,993	7,484,035	8,813,738	10,798,351	11,573,044
Prince Edward Island	...	1,700,000	750,000	225,000	225,000
Nova Scotia	3,813,655	6,716,003	5,501,198	5,640,601	5,512,903
New Brunswick	2,541,459	2,445,856	2,218,264	3,318,923	3,651,628
Quebec	63,308,929	76,233,819	84,103,471	92,136,307	112,716,364
Ontario	62,871,982	76,170,363	77,205,171	72,098,791	69,754,183
Manitoba	2,905,751	2,878,546	3,072,092	5,006,332	5,172,910
Saskatchewan	2,895,002	3,175,234	2,640,733	2,448,097	2,949,466
Alberta	940,827	1,448,604	1,016,705	1,040,269	1,160,396
British Columbia	9,473,193	10,548,299	12,045,516	12,425,387	15,091,604
Yukon	177,222	176,081	176,107	189,184	186,977
Northwest Territories	762,169	819,923	834,751	821,565	734,118
Canada (excluding coal)	157,069,182	189,796,763	199,377,746	206,148,807	228,728,595

⁴ Sand and gravel, sodium sulphate, etc., which are not actually mined or blasted are not included.

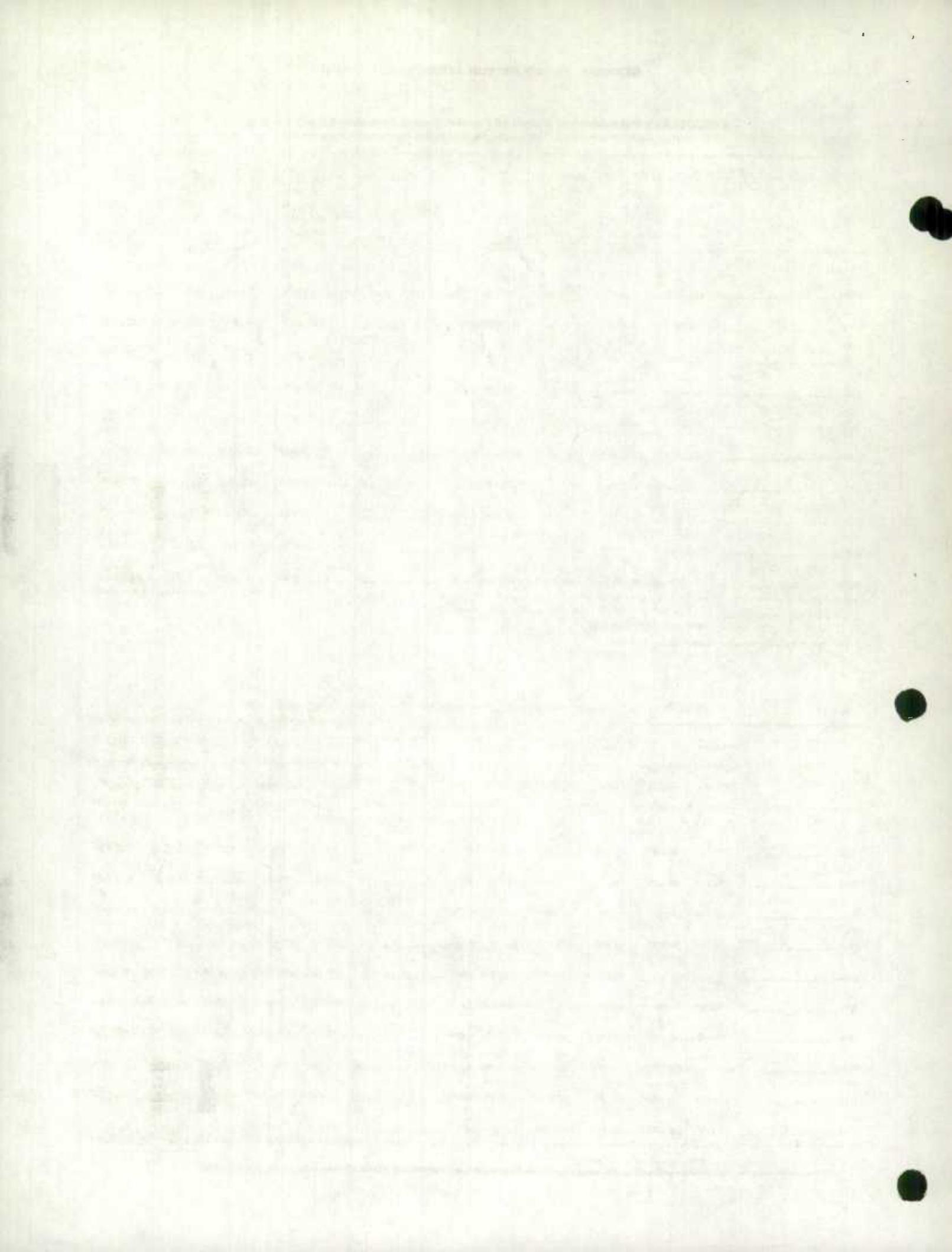


TABLE 20. Yearly Average Prices of Copper, Lead, Zinc and Silver, 1943-62
(Copper, lead and zinc in U.S. cents per pound; silver, U.S. cents per ounce)

Year	Copper New York	Lead New York	Zinc St. Louis	Silver New York	Year	Copper New York	Lead New York	Zinc St. Louis	Silver New York
	Yearly average	Yearly average	Yearly average ¹	Yearly average ²		Yearly average	Yearly average	Yearly average ¹	Yearly average ²
1943	11.775	6.500	8.250	44.750	1953	28.798	13.489	10.855	85.188
1944	11.775	6.500	8.250	44.750	1954	29.694	14.054	10.681	85.250
1945	11.775	6.500	8.250	51.928	1955	37.491	15.138	12.299	89.099
1946	13.820	8.109	8.726	80.151	1956	41.818	16.013	13.494	90.826
1947	20.958	14.673	10.500	71.820	1957	29.576	14.658	11.399	90.820
1948	22.038	18.043	13.589	74.361	1958	25.764	12.109	10.309	89.044
1949	19.202	15.364	12.144	71.930	1959	31.182	12.211	11.443	91.202
1950	21.235	13.296	13.866	74.169	1960	32.053	11.948	12.946	91.375
1951	24.200	17.500	18.000	89.368	1961	29.921	10.871	11.542	92.449
1952	24.200	16.467	16.215	84.941	1962	30.600	9.631	11.625	108.521

¹ Prime western grade.² 1937-59 for other than newly-mined domestic.

Source: American Bureau of Metal Statistics.

TABLE 21. Average Annual Metal Prices, in Canadian Dollars, 1943-62

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
dollars											
1943	38.50	0.4525	0.1175	0.0375	0.040	1953	34.42	0.8401	0.2994	0.1293	0.1196
1944	38.50	0.430	0.120	0.045	0.043	1954	34.07	0.8326	0.2916	0.1333	0.1198
1945	38.50	0.470	0.1255	0.050	0.0644	1955	34.52	0.8818	0.3687	0.1438	0.1365
1946	36.75	0.8365	0.128	0.0675	0.0781	1956	34.45	0.8968	0.4141	0.1551	0.1484
1947	35.00	0.72	0.2039	0.1367	0.1123	1957	33.55	0.8737	0.2895	0.1396	0.1209
1948	35.00	0.75	0.2235	0.1804	0.1393	1958	33.98	0.8681	0.2542	0.1136	0.1088
1949	36.00	0.7425	0.1997	0.158	0.1325	1959	33.57	0.8778	0.2961	0.1061	0.1224
1950	38.05	0.8082	0.2342	0.1445	0.1585	1960	33.95	0.8891	0.3029	0.1068	0.1335
1951	36.85	0.9455	0.277	0.184	0.199	1961	35.46	0.9426	0.2919	0.1021	0.1239
1952	34.27	0.8352	0.2654	0.1610	0.1746	1962	37.41	1.1650	0.3100	0.0992	0.1210

¹ Based on New York; 1933-42 based on London.² Based on London; prices controlled by Government 1939-47. Based on New York 1947-50. Montreal prices in 1951-62.

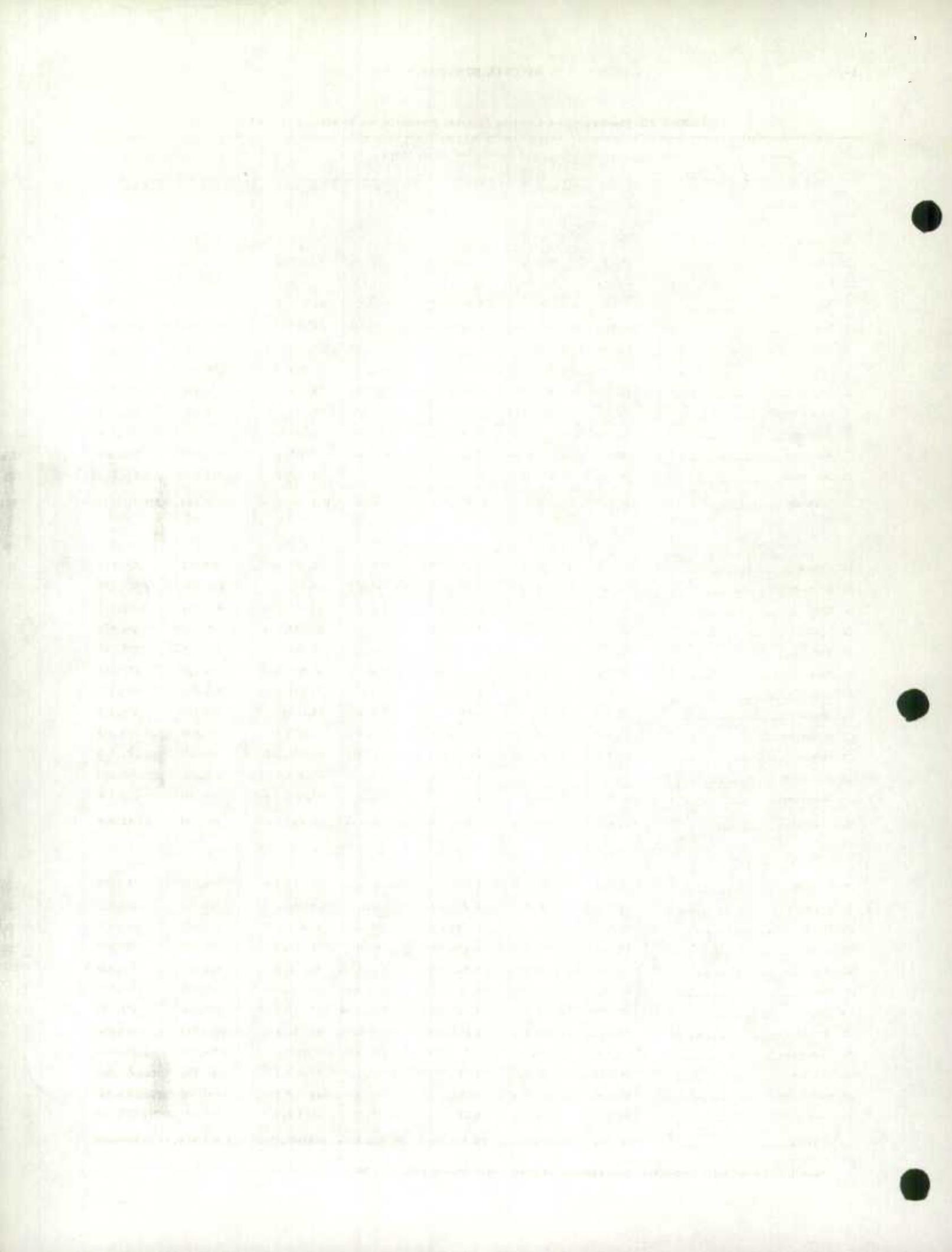


TABLE 22. Production of Leading Mineral Products, by Months, 1948-62

No.		Asbestos	Cement	Clay products	Coal	Copper	Gold	Gypsum
		tons	barrels	\$	tons	pounds	ounces	tons
1948								
1	January	46,633	500,317	1,004,675	1,396,363	40,690,078	273,415	141,562
2	February	50,127	647,179	971,476	1,155,109	38,033,072	261,650	40,915
3	March	62,524	1,072,489	1,174,636	1,658,699	41,947,254	287,760	82,875
4	April	61,590	1,268,018	1,307,584	1,605,266	41,620,430	286,124	226,976
5	May	60,681	1,413,959	1,415,034	1,362,393	41,280,584	288,474	275,161
6	June	53,975	1,455,273	1,658,445	1,404,189	40,793,623	290,102	356,490
7	July	56,481	1,420,151	1,661,710	1,361,736	38,824,142	296,247	476,320
8	August	64,185	1,434,896	1,594,360	1,383,728	36,254,784	305,452	387,120
9	September	68,424	1,481,347	1,773,388	1,578,467	39,177,650	294,963	347,081
10	October	66,264	1,377,554	1,777,628	1,811,537	40,712,831	306,989	415,110
11	November	67,426	1,311,432	1,784,786	1,892,580	40,467,115	311,399	292,209
12	December	58,459	744,508	1,505,326	1,839,622	41,562,403	327,033	174,990
13	Totals	716,769	14,127,123	17,629,048	18,449,689	481,463,966	3,529,608	3,216,809
1949								
14	January	48,872	622,621	1,289,898	1,856,141	41,685,168	310,981	152,998
15	February	26,148	910,064	1,182,116	1,688,433	43,156,293	308,724	128,567
16	March	11,770	1,403,336	1,354,934	1,685,130	43,872,003	343,877	107,273
17	April	16,002	1,536,897	1,251,646	1,228,782	45,175,710	327,828	164,934
18	May	22,713	1,471,029	1,533,827	1,341,549	43,382,915	333,126	269,187
19	June	29,117	1,626,434	1,670,583	1,326,988	40,589,190	344,275	272,463
20	July	64,735	1,521,147	1,557,179	1,131,342	42,987,651	327,235	370,133
21	August	72,114	1,652,945	1,749,234	1,278,136	45,612,657	359,931	356,182
22	September	71,963	1,559,238	1,737,812	1,747,084	44,302,193	364,689	380,463
23	October	72,157	1,465,952	1,721,831	1,929,796	44,621,788	366,880	387,993
24	November	77,354	1,382,718	1,581,275	2,091,769	44,164,496	362,772	250,200
25	December	61,961	764,183	1,351,374	1,814,896	47,363,568	373,200	173,836
26	Total	574,906	15,916,564	17,981,709	19,120,046	526,913,632	4,123,518	3,014,249
1950								
27	January	57,172	652,920	1,166,388	1,801,536	44,086,877	353,615	157,359
28	February	57,961	790,500	1,079,468	1,775,859	45,286,579	349,291	141,510
29	March	68,356	1,233,425	1,509,122	1,897,084	44,695,769	382,624	137,326
30	April	68,730	1,383,134	1,319,229	1,316,889	44,567,293	369,070	200,839
31	May	71,772	2,136,103	2,045,406	1,460,561	44,756,294	373,124	275,521
32	June	67,781	1,849,368	2,150,876	1,363,135	40,842,159	368,347	357,026
33	July	57,389	1,681,110	2,011,486	1,138,104	42,688,407	367,766	411,757
34	August	71,519	1,614,646	2,068,138	1,066,014	42,717,742	375,924	439,646
35	September	92,215	1,615,506	2,263,482	1,515,163	41,910,478	364,361	438,878
36	October	96,610	1,558,140	2,276,650	1,815,985	44,479,964	376,315	470,778
37	November	89,678	1,435,354	2,169,115	2,061,482	46,868,657	378,294	412,529
38	December	76,161	791,620	1,731,528	1,927,300	45,518,077	382,496	213,167
39	Total	875,344	16,741,826	21,790,888	19,139,112	528,418,296	4,441,227	3,666,336

Note: Data for the years 1929-49 are shown in *General Review of the Mining Industry, 1949*.

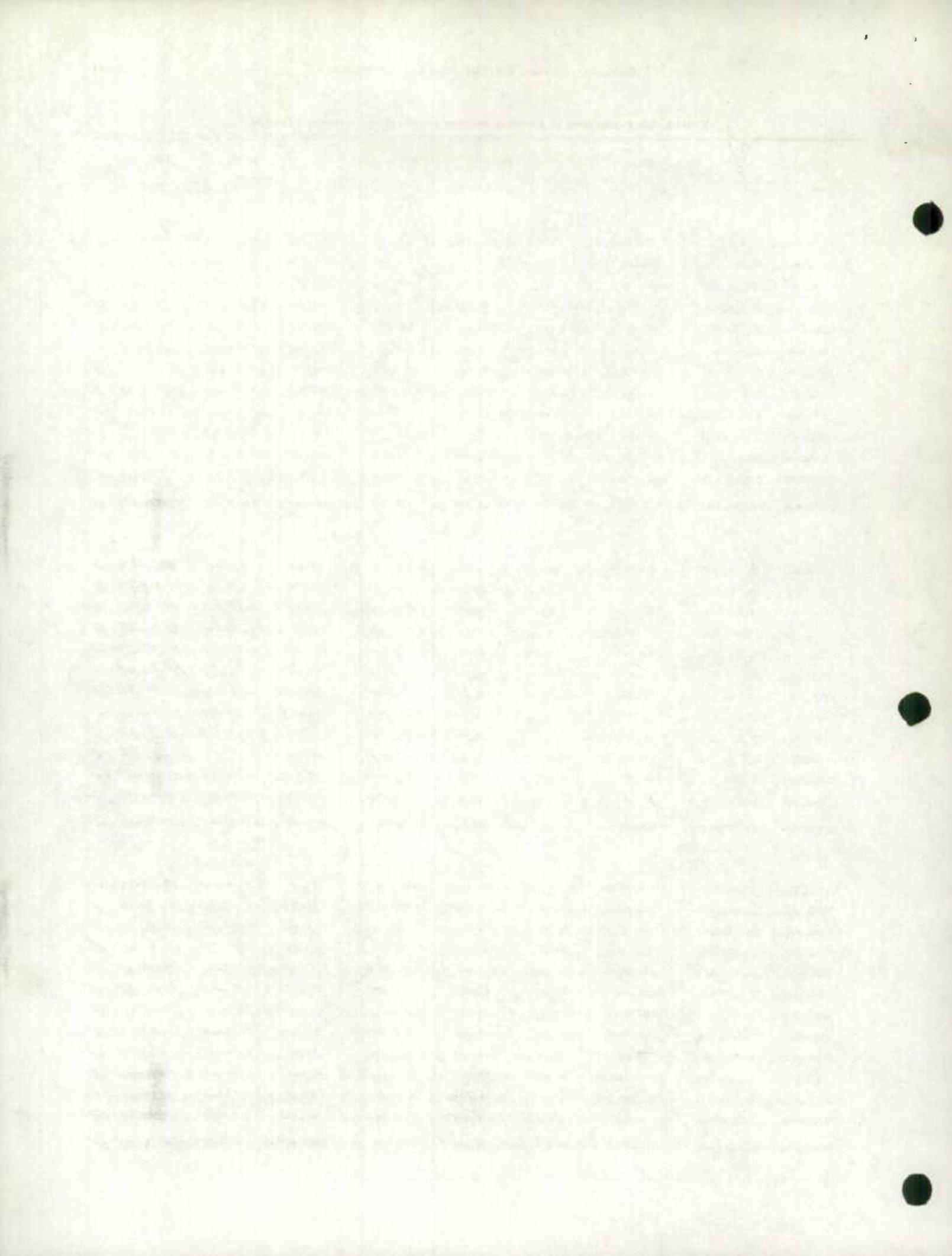


TABLE 22. Production of Leading Mineral Products, by Months, 1948-62

Long ton	Lead	Lime	Natural gas	Nickel	Petroleum	Salt	Silver	Zinc	No.
—	12,834,626	77,645	6,081,198	21,658,146	777,639	53,282	1,059,502	33,956,681	1
—	25,400,131	76,274	6,505,333	19,464,157	779,893	53,434	1,145,020	34,669,617	2
—	25,403,629	89,520	6,064,042	21,026,576	816,504	53,792	1,215,564	36,787,838	3
47,884	26,153,546	89,690	5,089,540	26,523,329	796,927	57,166	1,204,934	38,660,164	4
162,218	25,949,422	88,505	3,912,649	22,820,237	917,429	61,090	1,186,090	40,515,254	5
184,024	22,633,503	85,478	3,309,743	20,867,468	1,038,563	63,844	1,320,440	37,656,531	6
93,302	29,139,603	84,727	3,326,215	20,898,980	1,179,613	67,898	1,970,853	43,091,531	7
155,335	33,807,642	86,184	3,404,976	18,097,902	1,244,602	65,371	1,678,115	41,019,818	8
234,236	30,677,253	88,851	3,652,010	19,781,364	1,100,778	63,968	1,360,157	39,530,888	9
295,760	32,097,545	98,455	4,657,448	20,644,134	1,206,738	68,817	1,527,350	44,187,999	10
150,806	32,061,284	97,057	5,491,314	25,510,182	1,264,533	69,577	1,235,792	41,915,918	11
679	27,643,733	91,198	7,108,801	26,186,688	1,247,654	63,022	1,206,165	36,334,797	12
1,337,244	334,501,917	1,053,584	58,603,269	263,479,163	12,370,873	741,261	16,109,982	468,327,036	13
2,457	21,496,408	84,869	7,705,565	22,558,558	1,355,519	61,041	990,835	43,528,654	14
559	21,158,059	74,918	6,951,069	21,920,914	1,440,181	55,640	983,619	39,692,332	15
—	19,552,591	86,421	5,749,745	25,434,591	1,746,062	50,794	1,317,934	46,647,844	16
101,288	22,444,966	87,324	4,225,577	22,292,845	1,840,193	53,398	1,264,655	34,301,227	17
154,490	35,721,965	89,048	3,877,846	22,521,641	1,714,533	60,430	1,521,789	49,364,265	18
573,284	28,318,949	88,897	3,485,920	21,349,732	1,700,804	65,983	2,231,099	54,525,956	19
706,792	22,010,972	82,843	3,328,737	19,346,513	1,775,084	65,133	1,761,798	56,690,080	20
666,581	25,321,660	78,907	3,361,406	20,027,289	1,969,615	64,660	1,213,992	51,474,542	21
676,723	25,520,292	84,156	3,724,535	19,231,188	2,167,332	72,171	1,161,567	45,411,639	22
448,529	26,556,442	90,344	5,035,311	21,654,727	2,058,419	68,563	1,923,039	51,230,397	23
335,991	26,937,596	86,482	4,968,542	19,499,864	1,914,580	70,123	1,526,528	49,452,631	24
162,396	44,509,955	83,614	8,042,924	21,541,354	1,782,000	61,079	1,744,638	54,304,305	25
3,675,096	319,549,865	1,018,823	60,457,177	257,379,216	21,464,322	749,015	17,641,493	576,524,097	26
2,731	18,993,466	79,029	9,361,673	20,487,323	1,925,663	60,405	1,246,954	48,120,097	27
33,388	21,786,670	77,013	6,526,037	19,219,858	1,950,540	62,959	1,446,720	44,821,983	28
34,369	25,992,199	86,004	6,488,696	18,649,637	2,444,178	66,815	1,848,367	50,109,483	29
33,318	20,973,593	85,778	5,262,281	22,467,086	2,045,425	60,488	1,528,373	47,284,204	30
431,014	26,968,565	90,708	4,253,265	22,042,657	1,959,143	70,528	1,831,087	61,469,860	31
500,298	28,948,998	104,574	3,393,721	21,635,959	2,183,201	77,387	2,055,615	53,411,296	32
459,628	33,471,960	96,754	3,562,588	18,757,282	2,614,485	66,811	2,351,147	51,909,058	33
519,527	28,766,599	91,360	3,687,335	15,441,941	2,468,623	67,516	2,314,948	51,697,847	34
597,452	30,583,366	98,213	4,255,164	23,444,806	2,728,948	81,895	2,207,141	58,223,005	35
563,958	37,104,339	106,681	5,782,198	20,708,689	2,979,864	82,198	2,495,308	53,259,434	36
287,102	34,475,479	108,581	7,449,587	23,823,667	3,190,724	84,657	1,959,799	51,829,468	37
175,096	23,328,894	99,493	7,799,685	20,638,962	2,602,930	77,237	1,935,972	54,318,863	38
3,605,361	331,394,128	1,124,188	67,822,230	247,317,867	29,043,754	838,896	23,221,431	626,454,398	39

MINERAL STATISTICS

TABLE 22. Production of Leading Mineral Products, by Months, 1948-62 — Continued

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	193,334
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	466,938
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	Totals	973,198	17,007,812	23,527,656	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	1,692,868	1,446,258	44,841,702	364,973	175,006
17	April	81,301	1,584,070	1,542,925	1,278,160	44,105,322	363,375	190,397
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	459,038
20	July	69,611	1,877,806	2,433,420	1,182,695	39,801,686	374,037	448,565
21	August	76,659	1,661,071	2,248,694	956,128	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	1,658,865	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	Totals	929,339	18,520,538	24,961,528	17,579,002	516,075,097	4,471,423	3,590,783
1953								
27	January	69,820	1,035,573	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	41,794,425	351,611	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	2,107,609	3,035,825	1,851,286	38,046,927	283,948	344,093
37	November	84,238	2,051,141	2,848,066	1,631,015	34,512,601	272,389	296,295
38	December	64,394	1,226,926	2,338,678	1,653,474	35,531,349	273,678	201,435
39	Totals	911,226	22,238,335	29,777,731	15,900,673	506,504,074	4,055,723	3,841,457

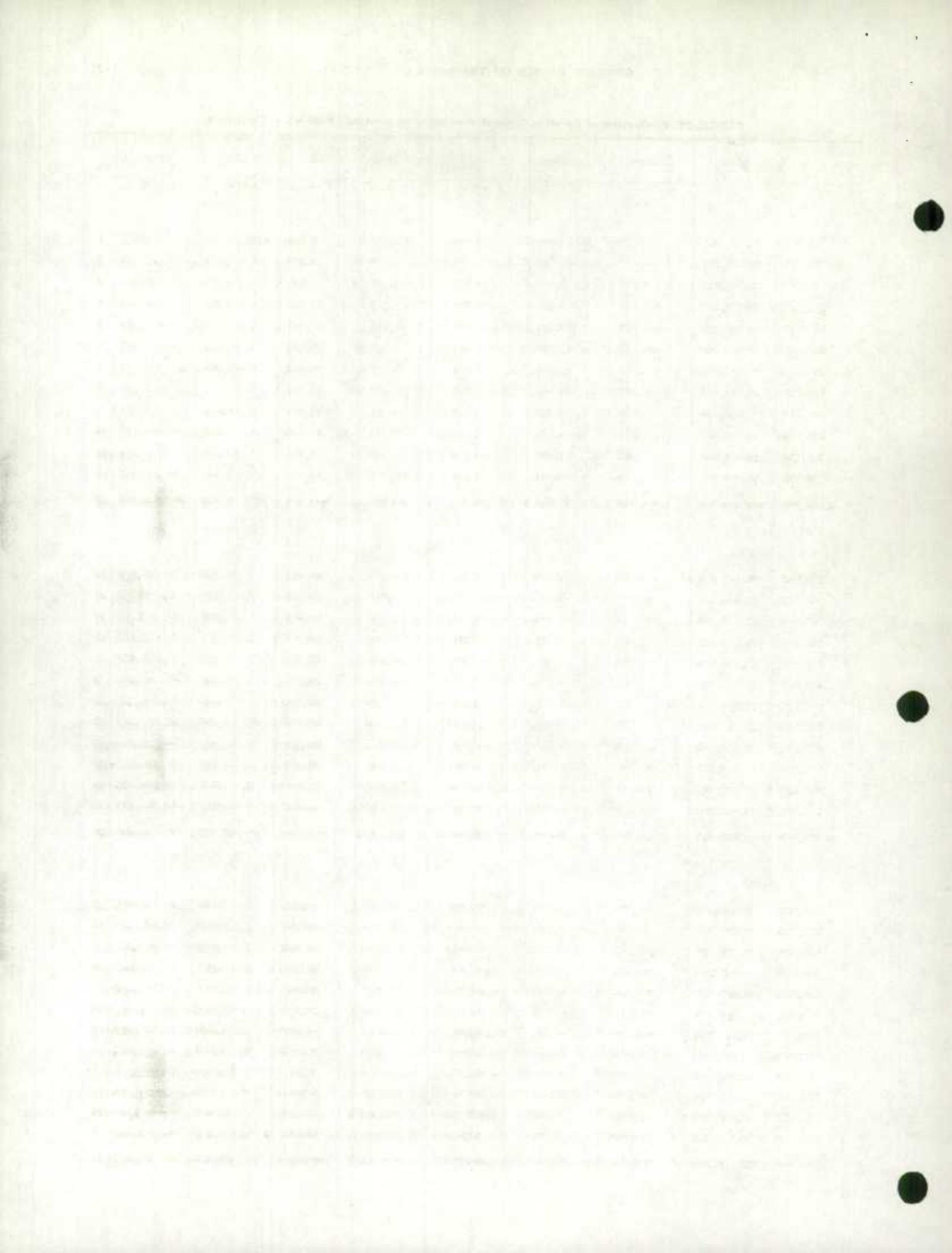
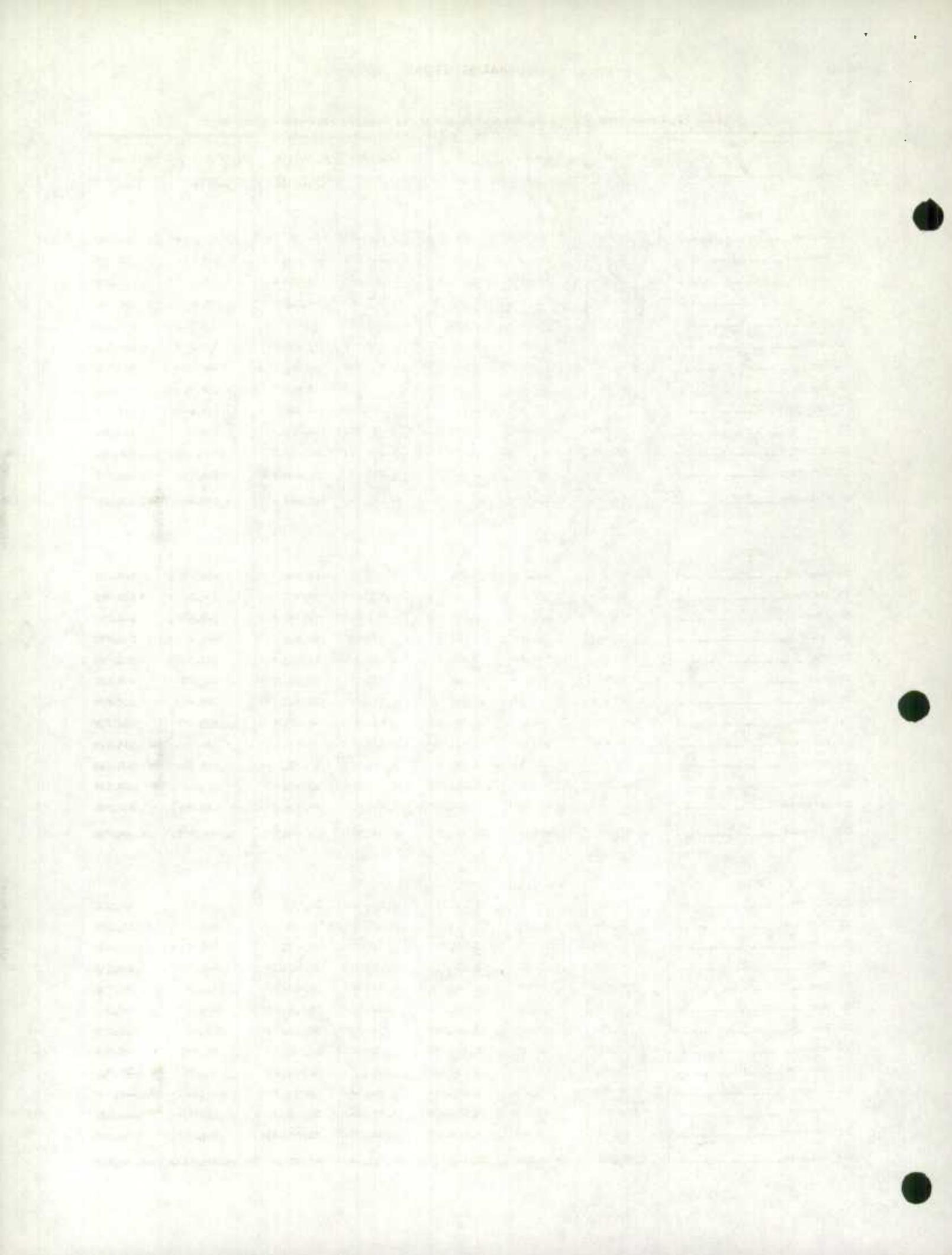


TABLE 22. Production of Leading Mineral Products, by Months, 1948-62 - Continued

Iron ore	Lead	Lime	Natural gas	Nickel	Petroleum	Salt	Silver	Zinc	No.
(tons)	pounds	tons	Mcf.	pounds	barrels	tons	ounces	pounds	
44,387	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	27,690,169	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
693,330	27,661,563	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	60,024,276	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
68,260	31,045,306	98,715	8,654,030	24,762,825	3,622,015	73,423	2,085,986	58,462,964	16
206,488	29,095,248	99,047	6,866,351	24,635,085	3,918,377	73,433	2,521,864	59,631,832	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
546,665	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
703,914	27,211,110	90,739	5,542,445	23,949,484	5,999,214	82,656	2,214,798	65,168,449	21
531,090	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	1,857,118	64,155,203	23
442,037	25,769,461	100,838	8,705,522	22,782,699	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	69,208	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	2,018,386	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	61,543,430	37
513,505	38,090,423	100,840	12,289,518	24,244,919	8,077,681	83,309	2,336,098	63,250,543	38
6,509,818	337,411,588	1,228,760	100,985,923	287,385,777	80,898,897	954,928	28,299,335	803,323,295	39



MINERAL STATISTICS

TABLE 22. Production of Leading Mineral Products, by Months, 1948-62 — Continued

No.	Asbestos	Cement	Clay products	Coal	Copper	Gold	Gypsum
							tons
1954							
1 January	56,800	155,679	1,699,694	1,626,528	34,760,959	294,000	169,182
2 February	61,629	207,561	1,886,123	1,376,087	37,019,796	311,653	191,925
3 March	74,775	308,210	2,336,470	1,267,600	53,407,117	369,350	183,692
4 April	82,950	321,196	2,122,501	1,121,486	55,245,661	357,839	226,302
5 May	79,709	403,147	2,740,313	972,539	55,854,096	383,556	372,045
6 June	78,960	453,660	3,327,262	1,068,506	52,230,151	377,274	454,633
7 July	70,383	447,705	3,369,334	870,125	53,198,403	380,885	449,783
8 August	80,783	403,342	3,289,747	796,465	53,624,165	369,434	475,657
9 September	90,834	363,847	3,175,773	1,258,368	47,544,822	373,810	452,828
10 October	68,610	342,472	3,022,761	1,416,937	54,585,157	378,887	474,964
11 November	87,443	333,342	3,024,104	1,590,522	52,643,755	385,350	291,409
12 December	71,240	186,398	2,366,016	1,548,416	55,349,960	384,402	208,002
13 Totals	924,116	3,926,559	32,360,098	14,913,579	605,464,042	4,366,440	3,950,422
1955							
14 January	61,609	158,390	1,795,121	1,449,585	52,940,950	366,175	184,483
15 February	68,520	155,679	1,748,264	1,276,643	50,519,666	350,572	163,671
16 March	78,524	235,011	2,243,557	1,400,907	53,771,601	371,884	223,202
17 April	98,658	311,126	2,265,983	946,447	50,604,597	369,866	279,930
18 May	94,465	505,607	3,369,754	1,028,419	51,637,064	383,464	387,630
19 June	91,389	575,996	3,808,114	940,505	55,169,012	373,078	444,581
20 July	83,476	495,700	3,466,685	784,995	53,162,106	384,460	538,029
21 August	98,799	532,168	3,726,739	820,510	54,243,836	385,717	488,216
22 September	95,039	483,636	3,717,861	1,257,328	55,376,246	394,312	548,460
23 October	97,656	435,006	3,563,074	1,414,960	55,366,941	395,202	550,199
24 November	112,626	352,015	3,281,641	1,769,929	54,387,477	388,040	529,153
25 December	83,041	164,126	2,272,977	1,728,652	64,807,927	379,192	330,347
26 Totals	1,063,802	4,404,480	35,259,770	14,818,880	651,987,423	4,541,962	4,667,901
1956							
27 January	58,550	195,533	2,136,017	1,668,772	59,890,931	369,805	307,754
28 February	67,853	224,561	2,515,473	1,423,086	53,497,626	351,969	276,207
29 March	76,778	313,844	2,350,304	1,321,038	63,070,387	383,926	304,820
30 April	99,558	428,586	2,710,044	1,085,826	55,435,563	367,646	414,733
31 May	101,934	593,467	3,797,254	1,093,805	58,635,581	374,542	483,252
32 June	79,773	581,905	3,856,769	913,336	57,934,295	380,574	572,299
33 July	86,511	557,870	3,931,683	854,554	62,021,921	351,492	543,078
34 August	98,316	546,851	3,858,193	855,757	57,178,263	351,692	437,946
35 September	81,953	442,518	3,594,299	1,142,328	62,132,602	352,510	409,087
36 October	90,920	538,060	3,962,240	1,494,359	59,693,186	368,385	490,909
37 November	111,645	400,035	3,214,689	1,562,454	59,426,857	367,303	351,623
38 December	60,458	198,453	1,858,015	1,500,295	60,803,378	364,019	304,103
39 Totals	1,014,249	5,021,683	37,784,980	14,915,610	709,720,590	4,383,863	4,895,811

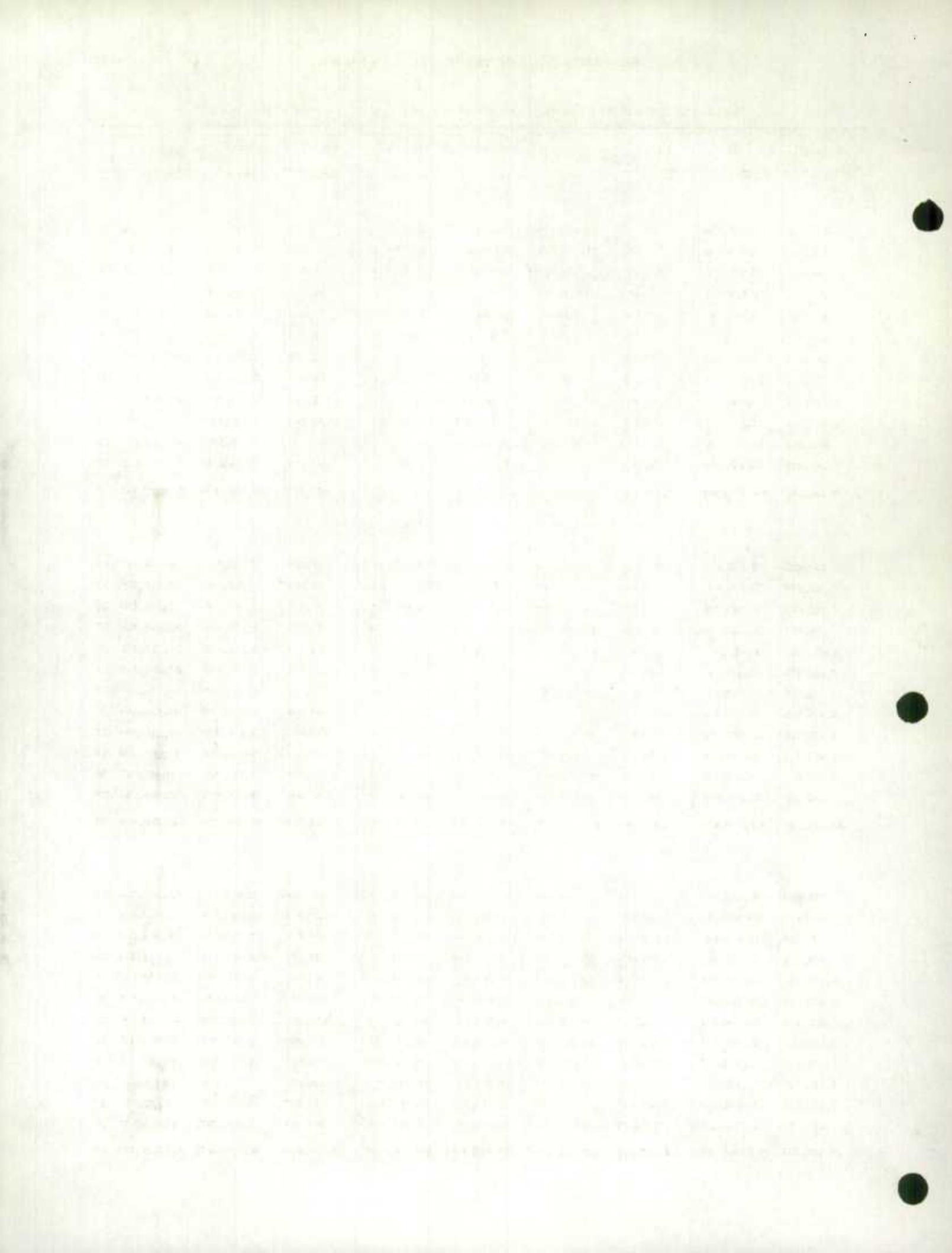
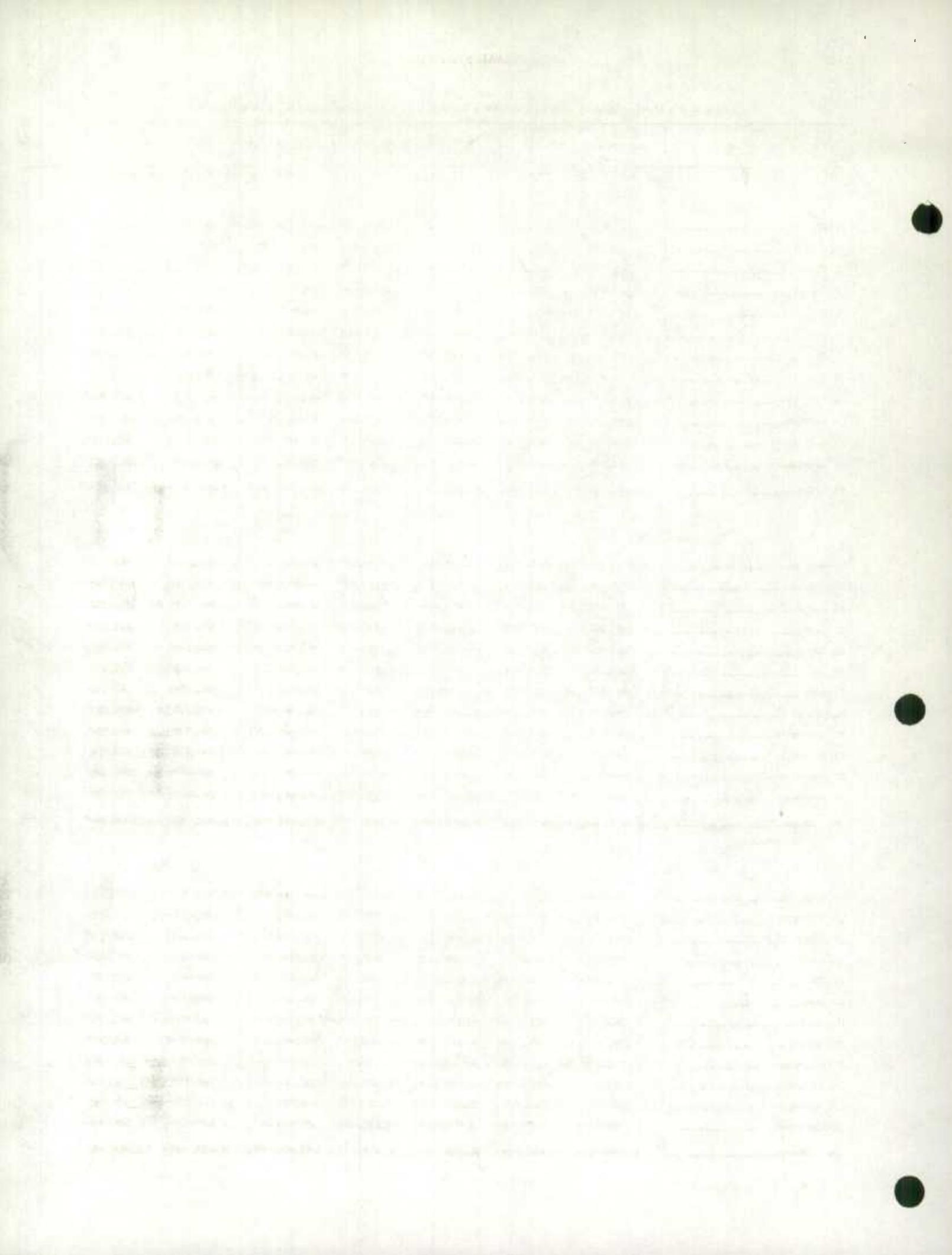


TABLE 22. Production of Leading Mineral Products, by Months, 1948-62 — Continued

Iron ore	Lead	Lime	Natural gas	Nickel	Petroleum	Salt	Silver	Zinc	No.
tons	pounds	tons	Mcf.	pounds	barrels	tons	ounces	pounds	
227,185	38,429,634	90,606	15,078,439	25,529,066	8,020,988	77,421	2,603,593	54,192,617	1
118,184	33,826,440	94,611	11,190,860	23,748,884	7,617,112	73,845	2,068,740	50,671,167	2
64,045	34,198,553	100,903	11,887,456	27,237,787	6,192,870	73,689	2,352,392	58,272,111	3
132,950	38,894,932	96,043	10,425,699	26,029,230	5,377,799	75,751	2,745,615	63,575,220	4
552,589	39,397,113	107,402	8,393,004	26,916,596	7,162,693	77,569	2,564,919	60,800,308	5
654,174	38,135,833	109,679	7,419,045	26,537,691	7,869,298	79,712	2,769,694	60,246,120	6
830,099	37,165,394	102,787	6,744,214	25,802,801	9,182,320	76,377	2,717,859	64,722,736	7
992,271	36,787,616	101,169	6,920,083	26,855,764	9,136,216	80,617	2,840,385	65,643,359	8
1,410,216	34,634,054	99,153	7,475,150	27,042,487	8,864,351	77,617	2,804,384	62,890,681	9
1,337,961	33,241,463	106,102	10,195,984	28,645,824	8,720,081	88,793	2,461,823	70,026,151	10
851,382	36,610,469	109,652	11,382,133	28,317,665	8,282,067	91,266	2,823,719	69,154,965	11
183,622	38,175,687	98,732	13,623,147	29,894,166	9,644,550	97,230	2,364,826	72,686,918	12
7,361,598	436,990,488	1,214,839	120,735,214	322,557,961	96,080,345	869,887	31,117,949	752,982,353	13
109,021	37,917,656	101,748	14,788,834	28,774,869	9,960,527	92,536	2,232,386	72,976,751	14
83,704	30,036,499	97,638	13,928,526	26,749,976	9,151,131	82,601	2,010,506	64,136,319	15
93,099	38,226,700	110,550	14,801,730	31,087,194	9,576,365	81,357	2,413,591	73,346,110	16
159,473	35,778,916	108,294	11,073,413	30,022,506	7,629,234	76,137	2,324,287	69,438,428	17
1,474,369	33,616,427	109,966	10,032,046	30,704,167	9,710,797	89,264	2,255,620	74,734,761	18
7,126,963	36,099,695	112,783	8,834,825	29,565,561	10,828,824	93,433	2,382,930	67,106,840	19
2,438,241	33,799,589	107,194	8,639,072	28,959,360	12,386,306	82,588	2,347,380	66,936,125	20
2,075,718	33,852,094	111,957	8,788,637	29,550,988	11,865,673	116,476	2,470,607	74,658,688	21
2,487,511	32,382,501	113,637	10,386,077	27,468,451	10,893,206	127,666	2,416,829	74,062,890	22
2,474,759	27,725,216	126,215	12,806,577	28,721,478	12,572,281	129,355	2,472,990	80,893,829	23
1,890,095	30,557,133	124,787	17,357,885	28,580,835	12,325,693	136,581	2,213,991	76,280,502	24
257,219	35,532,612	106,349	19,334,690	29,671,612	12,540,210	136,767	2,443,037	72,140,795	25
16,283,177	405,525,038	1,331,118	150,772,312	349,856,997	129,440,247	1,244,761	27,984,204	866,714,038	26
376,350	32,454,063	102,211	19,354,616	29,920,064	13,603,083	120,668	2,333,452	75,339,360	27
139,131	29,105,728	102,310	17,243,379	29,944,823	13,538,786	128,317	2,045,349	71,093,454	28
63,718	34,134,943	109,434	16,045,079	30,958,004	14,298,149	103,037	2,344,585	73,504,290	29
461,176	23,862,399	109,027	13,181,191	28,811,479	11,877,634	95,144	2,061,509	70,590,236	30
2,429,943	31,346,795	107,934	11,154,514	30,355,527	12,009,204	97,667	2,511,200	70,773,653	31
2,873,610	34,124,162	108,558	9,711,104	28,943,707	13,226,221	110,075	2,540,081	72,174,057	32
2,893,465	32,146,024	112,158	9,565,562	30,209,101	14,248,097	130,151	2,313,488	74,658,291	33
3,720,055	32,935,673	111,508	10,304,046	29,664,496	16,065,041	152,296	2,362,803	70,860,002	34
3,356,448	32,014,843	106,455	11,706,233	29,020,118	15,116,254	150,079	2,571,756	65,716,523	35
3,164,042	33,801,558	120,048	14,343,670	29,484,353	15,776,843	168,945	2,436,998	71,229,432	36
2,630,303	29,870,030	105,869	16,271,178	30,083,902	15,560,130	165,167	2,464,919	63,235,768	37
240,037	31,912,686	100,187	20,272,014	29,634,737	16,661,971	169,258	2,445,707	66,089,993	38
22,348,278	377,708,904	1,295,699	169,152,586	357,030,311	171,981,413	1,390,804	28,431,847	843,265,125	39



MINERAL STATISTICS

TABLE 22. Production of Leading Mineral Products, by Months, 1948-62 - Continued

No.		Asbestos	Cement	Clay products	Coal	Copper	Gold	Gypsum
		tons	tons	\$	tons	pounds	ounces	tons
1957								
1	January.....	59,694	189,694	1,582,825	1,410,225	52,804,296	358,638	306,350
2	February.....	77,249	210,959	1,683,891	1,301,241	59,494,732	342,826	193,284
3	March.....	69,689	315,616	2,400,046	1,072,839	62,685,269	375,702	195,694
4	April.....	107,066	379,383	2,420,503	987,048	56,829,666	370,251	395,793
5	May.....	100,362	628,961	3,718,883	927,261	53,986,461	375,907	395,079
6	June.....	83,946	650,867	3,514,299	793,112	54,560,249	359,721	519,800
7	July.....	83,089	878,529	3,976,068	709,127	53,572,465	365,905	501,831
8	August.....	95,949	746,973	3,909,687	767,328	60,953,655	363,801	586,469
9	September.....	135,692	669,256	3,585,460	1,076,152	62,751,293	376,042	479,372
10	October.....	88,991	682,343	3,801,984	1,498,906	63,511,520	399,693	481,201
11	November.....	93,770	469,842	3,162,924	1,354,912	68,481,139	378,293	301,452
12	December.....	50,589	226,675	2,165,588	1,291,004	68,587,790	367,115	221,167
13	Totals.....	1,046,086	6,049,098	35,922,158	13,189,155	718,218,535	4,433,894	4,577,492
1958								
14	January.....	57,450	218,199	1,933,788	1,296,690	65,736,378	378,414	260,158
15	February.....	53,949	183,123	1,392,901	1,172,251	61,336,142	360,385	209,564
16	March.....	55,178	312,048	2,873,329	940,121	68,477,172	394,247	249,554
17	April.....	83,477	422,752	3,185,496	850,434	65,284,103	385,183	251,180
18	May.....	70,883	665,429	4,160,858	823,114	64,742,399	384,649	321,326
19	June.....	73,995	719,926	4,140,795	684,469	64,336,378	385,810	318,301
20	July.....	87,377	752,762	4,730,946	697,365	61,762,123	382,250	382,253
21	August.....	85,785	721,140	4,185,781	409,707	61,234,633	369,728	365,503
22	September.....	88,992	737,622	4,514,831	937,015	54,891,449	378,022	423,659
23	October.....	98,392	696,722	4,511,151	1,259,348	44,615,189	404,328	427,060
24	November.....	107,072	493,674	3,802,063	1,239,146	40,161,993	371,146	371,343
25	December.....	62,781	230,024	2,277,964	1,377,450	37,649,449	377,185	384,218
26	Totals.....	925,331	6,153,421	41,709,903	11,687,110	690,227,408	4,571,347	3,964,129
1959								
27	January.....	54,523	187,853	1,792,293	1,279,791	48,642,147	376,066	313,040
28	February.....	60,084	209,242	1,899,452	920,531	55,337,583	358,052	235,991
29	March.....	69,902	292,162	3,158,914	704,061	64,158,223	378,398	358,869
30	April.....	98,139	445,685	3,465,510	780,061	63,564,242	376,795	488,529
31	May.....	91,257	651,778	4,127,966	570,332	64,548,851	380,019	562,120
32	June.....	98,012	781,363	4,646,838	609,637	73,263,256	359,004	694,142
33	July.....	94,898	829,108	4,890,632	719,652	* 71,439,415	379,010	617,683
34	August.....	91,929	725,836	4,447,390	482,537	89,386,141	349,470	630,100
35	September.....	98,363	746,530	4,211,673	956,274	70,775,680	363,988	654,242
36	October.....	96,529	678,135	4,080,156	1,232,921	71,264,100	396,725	544,727
37	November.....	124,839	452,977	3,394,934	1,222,462	69,813,746	388,812	400,586
38	December.....	71,954	283,817	2,399,690	1,148,463	68,345,276	377,057	348,601
39	Totals.....	1,050,429	6,284,486	42,515,448	10,626,722	790,538,660	4,483,416	3,878,630

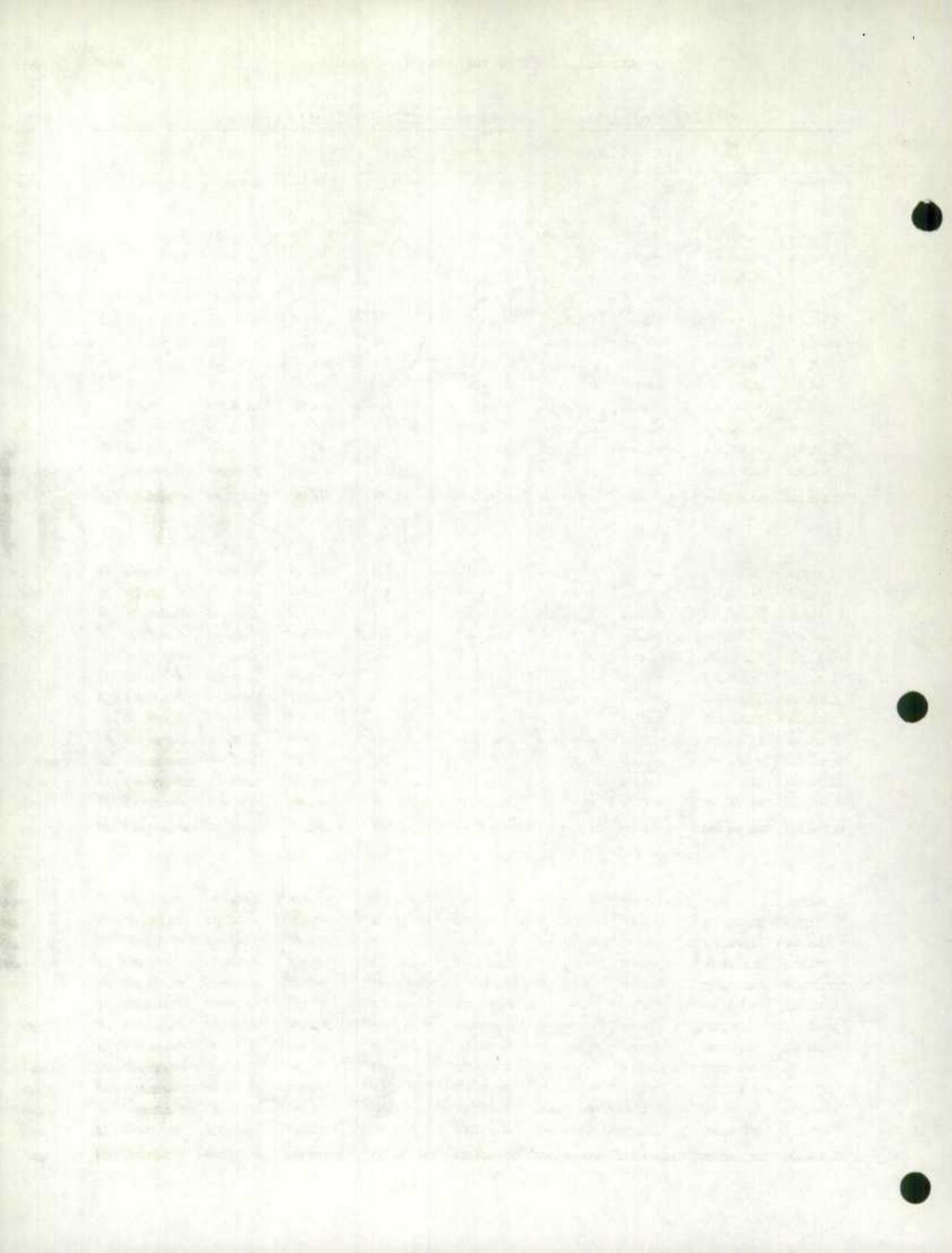


TABLE 22 Production of Leading Mineral Products, by Months, 1948-62 - Continued

Iron ore	Lead	Lime	Natural gas	Nickel	Petroleum	Salt	Silver	Zinc	No.
172,674	38,163,717	98,163	22,633,311	33,217,824	16,897,009	165,579	2,203,631	64,940,318	1
35,408	30,440,047	96,752	19,504,456	30,054,066	14,817,248	138,871	2,076,679	61,992,749	2
56,465	34,256,632	110,639	18,277,833	33,465,519	15,999,906	101,882	2,391,316	70,561,764	3
308,070	28,650,140	115,694	18,534,237	30,694,880	15,294,701	113,747	2,270,638	66,913,079	4
2,463,099	26,281,292	118,640	13,896,935	32,449,219	16,393,594	125,176	2,156,185	68,392,389	5
3,524,433	32,962,871	109,464	12,587,158	30,954,476	15,896,053	131,762	2,253,584	66,197,625	6
3,642,008	28,854,544	121,649	12,415,299	31,746,703	16,799,283	142,118	2,417,347	66,379,153	7
4,018,381	29,458,562	114,273	13,192,605	33,410,822	15,790,987	144,197	2,667,468	70,338,009	8
2,261,054	29,698,449	113,036	14,638,574	30,708,294	14,403,816	168,263	2,354,397	68,307,614	9
2,762,107	28,587,487	133,105	20,635,490	30,664,762	13,892,163	174,535	2,853,815	73,564,762	10
1,320,505	51,857,426	131,496	24,226,618	28,673,391	12,288,327	182,247	2,600,254	72,825,444	11
334,970	30,757,362	115,700	29,464,166	29,876,595	13,374,917	183,182	2,577,984	77,368,750	12
22,272,174	362,968,529	1,378,617	220,006,682	375,916,551	181,848,004	1,771,559	28,823,298	827,481,636	13
181,203	34,134,753	120,954	30,937,476	33,309,588	15,317,635	162,627	2,530,583	75,790,860	14
72,005	29,815,854	118,918	29,196,932	31,661,113	14,463,517	154,303	2,305,655	68,259,259	15
94,186	30,741,918	132,331	31,528,723	31,595,453	14,458,269	139,360	2,459,696	75,507,536	16
132,613	31,708,743	125,492	27,103,366	30,115,976	12,041,659	120,322	2,574,958	69,667,119	17
1,483,395	30,693,692	140,165	22,845,606	30,352,950	12,560,841	195,234	2,656,665	69,383,441	18
1,258,650	31,690,563	122,993	19,833,422	29,096,809	12,452,465	183,473	2,536,018	68,375,483	19
1,484,919	28,551,140	133,974	20,341,023	25,592,033	14,682,674	192,977	2,390,687	70,478,151	20
2,171,418	24,919,231	127,014	21,753,125	25,034,292	13,818,523	195,853	2,889,154	70,899,396	21
2,337,390	31,302,473	131,848	24,917,691	23,512,869	13,152,510	226,010	2,841,304	70,436,675	22
2,161,979	29,528,644	152,450	30,162,501	6,739,472	13,415,155	274,735	2,375,156	70,215,356	23
1,238,254	33,841,886	151,052	36,816,586	5,778,365	13,525,248	244,529	2,649,515	70,404,431	24
512,301	36,432,069	139,231	42,367,275	6,308,502	15,607,700	285,769	2,954,077	69,589,665	25
15,726,323	373,360,966	1,596,422	337,803,726	279,117,422	165,496,196	2,375,192	31,163,470	850,197,572	26
581,456	35,161,473	130,613	43,671,883	16,143,671	16,913,268	305,030	3,094,440	70,626,836	27
237,904	32,772,058	126,170	36,891,926	25,281,073	15,775,074	297,970	2,264,903	59,559,393	28
190,001	35,703,185	134,082	36,802,903	29,893,110	15,866,089	228,131	2,782,307	68,165,472	29
796,732	33,400,819	136,421	32,714,235	31,036,580	13,391,619	200,961	2,691,503	66,153,874	30
2,252,136	34,551,579	141,467	30,963,341	33,294,227	13,765,094	225,516	2,499,149	67,184,455	31
3,537,649	30,862,266	137,855	27,033,535	33,248,177	14,935,902	217,561	2,676,937	65,941,889	32
2,595,378	31,148,739	138,334	26,184,271	32,437,693	15,233,140	264,581	2,867,957	69,240,343	33
3,240,846	29,133,508	129,847	28,359,136	33,607,103	15,875,560	266,872	2,519,033	67,369,063	34
4,106,555	25,766,722	150,140	29,907,261	32,450,942	16,461,754	276,110	2,446,846	64,179,386	35
3,754,125	28,842,228	163,943	36,127,423	34,464,418	15,123,550	366,281	3,072,219	66,646,659	36
2,696,274	26,989,253	153,381	41,877,469	33,831,177	14,324,835	343,662	2,334,137	61,329,458	37
671,512	29,059,631	143,472	46,801,144	37,422,055	17,112,612	297,301	2,674,533	65,618,653	38
24,438,225	373,391,461	1,685,725	417,334,527	373,110,226	184,778,497	3,289,974	31,923,969	792,015,243	39

the same time, the number of species per genus was reduced from 12 to 8. This reduction was due to the loss of 4 genera, *Leptothrix*, *Micrococcus*, *Micrococcoides*, and *Micrococcus*. The remaining 8 genera were *Corynebacterium*, *Microbacterium*, *Microbacteroides*, *Mycobacterium*, *Pseudomonas*, *Streptomyces*, *Thiotricha*, and *Vibrio*.

The reduction in the number of species per genus was most pronounced in the genus *Corynebacterium*, where the number of species per genus was reduced from 12 to 2. The genus *Corynebacterium* contained 12 species in the original study, but only 2 species in the present study. The genus *Corynebacterium* was represented by two species, *C. diphtheriae* and *C. pseudotuberculosis*.

The genus *Microbacterium* contained 4 species in the original study, but only 2 species in the present study. The genus *Microbacterium* was represented by two species, *M. luteum* and *M. luteum*.

The genus *Microbacteroides* contained 2 species in the original study, but only 1 species in the present study. The genus *Microbacteroides* was represented by one species, *M. luteum*.

The genus *Mycobacterium* contained 4 species in the original study, but only 2 species in the present study. The genus *Mycobacterium* was represented by two species, *M. tuberculosis* and *M. bovis*.

The genus *Pseudomonas* contained 4 species in the original study, but only 2 species in the present study. The genus *Pseudomonas* was represented by two species, *P. aeruginosa* and *P. fluorescens*.

The genus *Streptomyces* contained 4 species in the original study, but only 2 species in the present study. The genus *Streptomyces* was represented by two species, *S. griseus* and *S. thermophilus*.

The genus *Thiotricha* contained 2 species in the original study, but only 1 species in the present study. The genus *Thiotricha* was represented by one species, *T. vulgaris*.

The genus *Vibrio* contained 2 species in the original study, but only 1 species in the present study. The genus *Vibrio* was represented by one species, *V. cholerae*.

MINERAL STATISTICS

TABLE 22. Production of Leading Mineral Products, by Months, 1948-62 — Concluded

No.		Asbestos	Cement	Clay products	Coal	Copper	Gold	Gypsum
		tons	tons	\$	tons	pounds	ounces	tons
1960								
1	January	65,585	176,374	1,630,084	1,125,102	72,208,908	378,073	322,122
2	February	67,630	208,914	1,854,392	1,034,364	71,048,400	372,664	328,035
3	March	71,579	282,165	2,489,367	1,054,242	77,208,871	390,031	295,215
4	April	96,053	324,123	2,585,679	690,798	69,333,484	367,830	310,254
5	May	106,214	569,709	3,552,065	676,236	74,521,806	380,128	468,740
6	June	100,561	709,585	4,137,178	690,690	74,690,955	389,082	520,889
7	July	92,529	697,071	4,147,865	719,684	74,304,756	397,487	586,124
8	August	103,286	750,473	4,156,256	593,387	75,411,127	383,933	571,451
9	September	105,689	709,506	4,049,706	1,038,760	68,538,742	371,717	447,240
10	October	100,242	638,671	3,873,165	1,140,899	71,524,652	405,479	549,929
11	November	147,729	482,430	3,753,128	1,260,875	75,041,474	395,215	473,502
12	December	61,359	238,204	1,997,655	986,101	74,690,921	397,272	332,230
13	Totals	1,118,456	5,787,225	38,226,538	11,011,138	878,524,096	4,628,911	5,205,731
1961								
14	January	60,505	191,375	1,573,507	1,021,777	71,992,150	382,665	286,484
15	February	60,839	202,144	1,933,447	904,918	64,841,677	365,034	146,543
16	March	70,688	291,953	2,360,586	759,976	69,589,549	398,139	266,809
17	April	96,254	369,489	2,480,355	743,738	68,526,997	380,088	372,180
18	May	114,305	635,762	3,689,959	842,766	71,671,294	389,978	460,206
19	June	104,330	747,350	3,682,011	746,551	75,383,945	371,340	525,118
20	July	102,128	720,295	3,964,459	654,888	74,715,359	361,847	569,618
21	August	119,034	801,085	4,760,257	460,309	74,372,521	362,015	511,966
22	September	102,003	713,742	3,733,471	919,688	74,633,960	349,322	500,019
23	October	120,981	706,922	3,629,747	1,130,756	80,663,622	366,589	535,848
24	November	147,428	527,435	3,253,581	1,126,525	79,162,102	373,523	392,276
25	December	75,200	298,396	1,921,568	1,085,812	72,621,908	373,159	372,970
26	Totals	1,173,693	6,205,948	36,982,948	10,397,704	878,173,084	4,473,699	4,940,037
1962								
26	January	73,996	199,127	1,414,565	1,132,473	68,225,235	359,910	276,461
27	February	67,234	201,360	1,385,323	907,515	65,703,311	326,896	160,154
29	March	75,735	328,591	2,640,849	970,935	74,641,585	368,006	310,310
30	April	102,201	437,613	2,975,461	610,575	68,659,620	356,968	430,365
31	May	117,618	704,510	3,900,269	746,792	75,109,824	354,118	428,620
32	June	108,124	824,728	3,943,152	711,051	76,508,536	337,972	554,679
33	July	96,856	795,534	4,011,709	726,941	80,346,451	340,802	582,184
34	August	117,544	881,220	4,270,528	536,484	86,310,975	344,897	511,657
35	September	106,635	747,394	3,676,673	786,818	81,703,414	342,627	570,578
36	October	116,269	789,066	3,909,740	1,088,814	77,145,040	359,376	543,860
37	November	148,927	567,027	3,659,184	1,054,954	82,963,339	348,712	589,385
38	December	84,675	402,559	2,029,425	1,011,417	77,452,881	338,112	374,556
39	Totals	1,213,814	6,878,729	37,816,878	10,284,769	914,770,211	4,178,396	5,332,809

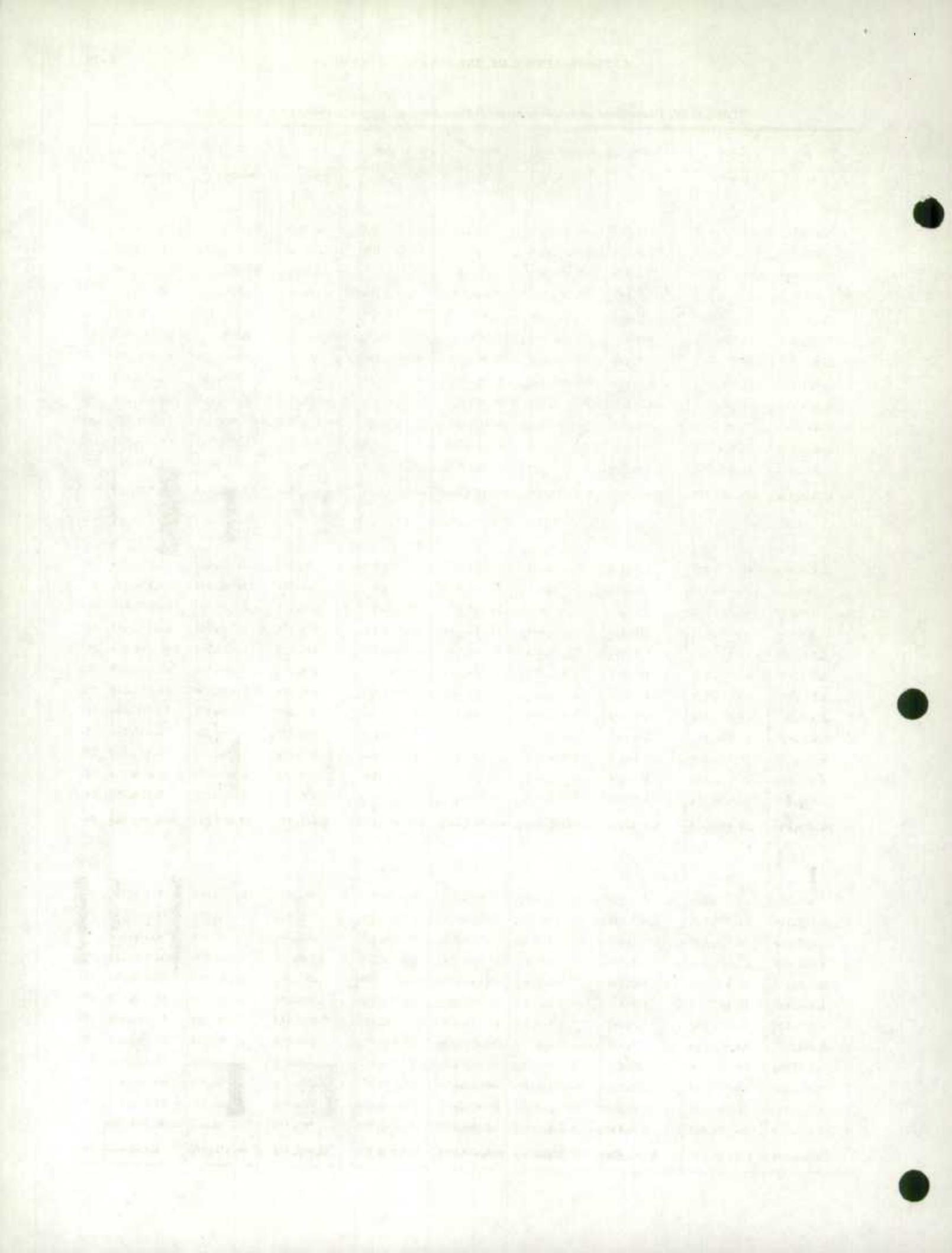
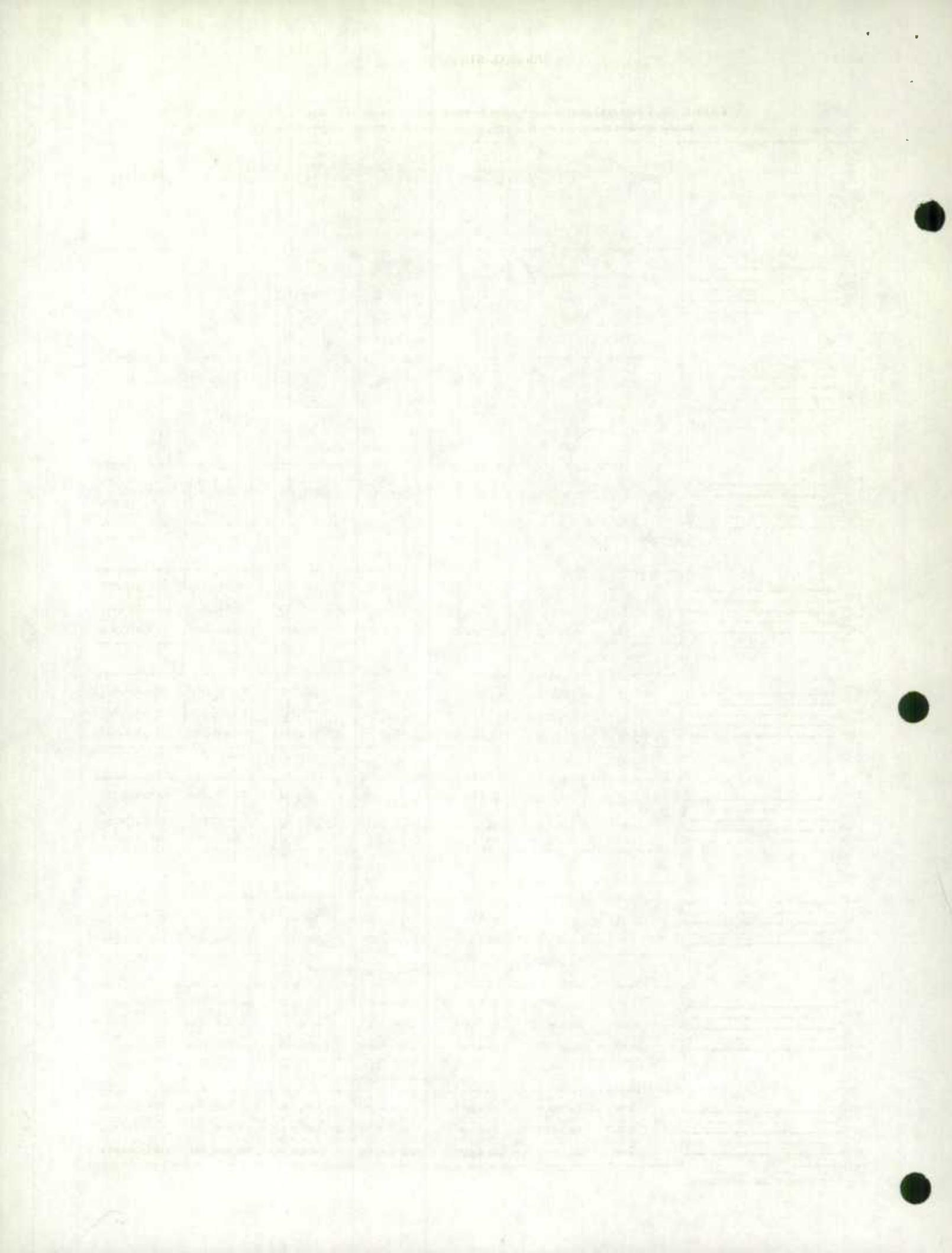


TABLE 22. Production of Leading Mineral Products, by Months, 1948-62 — Concluded

Iron ore	Lead	Lime	Natural gas	Nickel	Petroleum	Salt	Silver	Zinc	No.
tons	pounds	tons	Mcf.	pounds	barrels	tons	ounces	pounds	
500,162	32,568,482	131,122	50,535,935	34,797,564	18,182,262	329,734	2,800,069	69,959,942	1
369,023	32,793,483	129,967	46,141,890	32,870,617	15,740,455	291,254	2,879,074	64,619,056	2
219,619	33,774,201	141,438	49,469,928	35,561,076	17,165,544	265,312	2,754,583	72,798,095	3
352,924	32,538,044	126,463	41,296,338	35,048,813	14,490,211	197,347	2,603,829	70,581,996	4
2,706,842	33,116,345	128,499	39,443,048	34,413,239	16,541,558	241,374	2,369,657	66,723,358	5
3,394,329	35,067,377	124,851	35,680,979	36,763,682	15,729,200	243,040	2,996,473	67,349,040	6
3,689,827	36,078,462	122,179	34,057,816	34,997,568	16,025,491	246,461	2,944,664	63,421,597	7
3,671,885	33,600,855	126,214	34,457,225	38,284,934	15,082,841	264,054	2,675,109	66,251,360	8
2,764,404	33,818,181	129,880	36,448,582	36,477,877	15,396,659	280,286	2,494,268	70,193,257	9
2,435,336	32,494,531	131,195	44,186,193	36,010,839	14,273,656	322,421	2,904,221	71,014,047	10
966,019	34,664,772	127,962	50,934,633	35,357,748	14,754,804	343,262	3,082,228	66,219,053	11
540,560	40,785,718	109,798	60,319,760	38,428,720	16,151,540	290,375	3,512,654	64,614,342	12
21,550,830	411,300,451	1,529,568	522,972,327	429,012,707	189,534,221	3,314,920	34,016,829	813,745,341	13
475,094	45,290,717	104,466	61,608,928	36,428,081	17,619,010	274,240	2,597,485	71,103,300	14
289,969	41,473,310	100,629	55,918,811	33,736,670	16,495,653	242,793	2,605,595	60,398,844	15
268,762	41,864,266	117,197	59,174,030	34,194,477	16,352,133	240,714	2,972,546	66,403,815	16
333,531	36,336,952	118,259	53,517,011	33,202,355	16,854,799	200,578	2,516,521	62,192,696	17
1,535,469	33,510,507	128,075	49,619,491	38,915,446	18,852,293	226,225	2,570,788	68,873,338	18
3,716,698	39,838,232	119,577	44,012,421	38,584,055	17,943,874	214,095	2,893,800	65,806,369	19
3,000,335	36,811,028	109,600	43,160,296	40,379,500	18,979,577	240,509	2,410,226	67,362,012	20
3,419,335	38,667,912	116,532	45,616,930	39,742,813	19,680,640	263,580	2,240,105	71,463,034	21
3,031,926	37,876,137	115,647	47,781,138	41,843,638	19,646,535	268,227	2,389,225	77,451,276	22
3,162,549	39,051,487	137,646	54,927,952	43,815,082	18,204,436	351,224	3,070,234	75,827,543	23
1,147,361	34,682,103	126,774	62,320,289	44,611,798	19,701,517	396,057	2,659,863	72,931,992	24
953,974	35,461,741	120,888	78,080,347	40,528,953	20,517,613	328,285	2,455,589	72,194,363	25
20,359,003	460,869,392	1,415,290	655,737,644	463,982,868	220,848,080	3,246,527	31,381,977	832,008,584	26
461,526	37,464,508	119,714	85,314,599	41,683,882	22,031,995	384,676	2,551,394	76,192,416	27
522,718	32,654,516	105,947	82,864,677	36,057,198	20,327,201	380,942	2,065,971	64,445,043	28
500,054	34,325,850	124,980	84,151,375	42,733,015	21,846,225	252,644	2,532,930	71,518,666	29
1,098,006	35,622,401	119,097	72,941,856	37,946,608	18,593,186	221,841	2,272,855	74,966,113	30
3,548,111	37,155,514	133,188	72,717,573	40,848,760	20,008,658	207,355	2,217,612	82,610,390	31
4,234,517	40,431,794	127,717	68,036,230	36,910,480	18,163,964	281,598	2,683,932	82,435,040	32
3,933,577	39,568,378	126,492	69,318,357	37,444,816	20,066,840	274,815	2,848,662	81,561,520	33
3,508,577	34,500,896	119,283	71,971,184	39,494,145	20,831,002	300,864	2,408,070	91,386,407	34
3,852,341	29,339,027	99,967	74,454,154	37,932,543	20,671,116	306,826	2,836,669	77,437,048	35
3,508,087	40,996,726	116,948	82,667,911	32,770,069	20,621,203	334,180	2,737,110	86,471,490	36
1,265,232	32,706,246	120,281	85,534,912	40,619,803	19,671,793	344,011	2,502,287	67,891,717	37
926,930	35,892,817	110,845	96,729,899	39,842,480	21,281,969	349,025	2,765,480	69,373,048	38
27,359,676	430,658,673	1,424,459	946,702,727	464,483,999	244,115,152	3,638,778	30,422,972	926,289,098	39



MINERAL STATISTICS

TABLE 23. Principal Statistics of the Mineral Industry, by Industries, 1958-62

Basis: Revised Standard Industrial Classification and New Establishments Concept

Year	Establishments ¹	Employees number	Salaries and wages	Cost of fuel and electricity	Cost of process supplies, ores and containers	Gross value of products ²	Net value added by processing ³							
Metal mining industries														
Placer gold mines														
1958	112	236	1,253,362	63,007	461,375	3,049,743	2,484,324							
1959	112	239	1,194,713	74,536	355,837	2,462,727	1,989,431							
1960	32	213	1,224,907	77,498	344,379	2,756,284	2,285,126							
1961	47	243	1,325,147	108,452	47,822	2,465,611	2,254,746							
1962	39	231	1,340,953	101,676	13,817	2,160,801	1,989,696							
Gold quartz mines														
1958	127	16,811	64,208,042	7,134,399	18,013,121	133,995,004	107,140,993							
1959	139	16,777	65,519,112	7,161,054	20,901,136	130,097,533	100,819,597							
1960	146	16,542	66,552,906	7,216,027	22,686,326	135,349,183	103,748,507							
1961	140	15,876	65,465,515	7,360,085	19,396,214	135,033,500	106,879,129							
1962	133	15,220	64,578,944	6,981,932	18,495,257	129,495,909	102,318,033							
Copper-gold-silver mines														
1958	244	8,875	39,745,243	4,428,653	15,968,361	133,778,148	77,993,264							
1959	310	9,682	43,460,641	4,948,483	12,948,618	147,752,990	90,660,009							
1960	277	10,549	48,950,982	6,546,557	17,989,123	172,254,034	103,754,616							
1961	276	10,901	51,459,158	5,932,106	14,709,403	175,463,232	109,047,866							
1962	191	11,046	53,489,185	6,873,189	16,233,410	218,036,064	142,916,627							
Silver-cobalt mines														
1958	12	570	2,115,670	241,027	320,403	4,792,545	3,633,390							
1959	11	486	1,647,687	185,883	229,554	5,006,541	4,118,972							
1960	7	520	2,077,281	253,243	297,067	5,643,143	4,526,714							
1961	20	560	2,216,805	295,788	375,186	4,515,717	3,424,158							
1962	21	611	2,517,012	305,341	292,566	6,107,978	5,011,493							
Silver-lead-zinc mines														
1958	62	4,485	20,763,855	2,208,845	9,092,759	98,152,340	46,166,133							
1959	52	4,241	19,843,990	1,992,494	6,244,399	101,873,270	53,554,292							
1960	47	4,215	21,304,035	2,245,901	8,517,725	111,986,518	61,377,333							
1961	73	4,352	22,098,610	2,446,827	6,628,804	111,172,237	61,422,497							
1962	59	4,532	23,545,985	2,790,474	7,947,054	111,258,068	59,098,858							
Nickel-copper mines														
1958	47	9,243	47,190,007	2,990,800	11,190,722	79,814,539	61,164,399							
1959	55	11,025	57,210,303	3,156,926	15,234,554	110,332,077	84,745,910							
1960	39	12,709	67,504,099	6,334,892	18,746,564	127,212,418	99,161,515							
1961	50	13,697	74,754,694	4,636,241	17,876,804	134,732,176	102,350,112							
1962	37	13,342	74,049,980	4,478,914	16,753,050	115,549,381	90,942,553							
Iron mine														
1958	59	7,404	36,032,817	6,750,140	8,477,634	126,131,181	79,175,569							
1959	59	7,776	41,450,834	7,708,322	10,043,867	192,666,101	125,208,070							
1960	62	7,754	45,985,190	7,916,476	20,812,978	175,062,523	106,722,156							
1961	55	8,049	47,107,661	8,331,530	21,643,625	186,332,963	124,588,726							
1962	55	9,215	60,354,409	10,836,920	23,706,663	257,965,925	185,452,101							
Miscellaneous metal mines ⁴														
1958	91	14,375	78,320,507	9,293,152	50,827,573	284,367,777	223,484,942							
1959	84	13,645	76,604,136	9,023,750	57,982,723	333,770,291	265,835,151							
1960	68	9,380	54,453,208	7,570,803	40,059,514	273,409,628	224,482,268							
1961	43	5,919	34,332,063	5,856,827	22,992,059	201,214,250	170,664,295							
1962	29	5,120	30,354,642	4,969,168	22,129,854	164,135,270	135,816,670							
Totals, metal mining industries														
1958	754	61,999	289,629,503	33,110,923	114,351,948	864,084,277	601,243,814							
1959	822	63,871	306,931,416	34,564,448	123,940,688	1,023,961,535	726,631,232							
1960	678	61,882	308,042,608	38,161,397	129,453,676	1,003,695,731	706,058,335							
1961	704	53,137	268,760,653	34,967,856	103,669,917	950,929,886	687,631,629							
1962	564	51,137	310,231,110	37,357,614	105,571,671	1,004,709,396	723,546,036							

See footnotes at end of table.

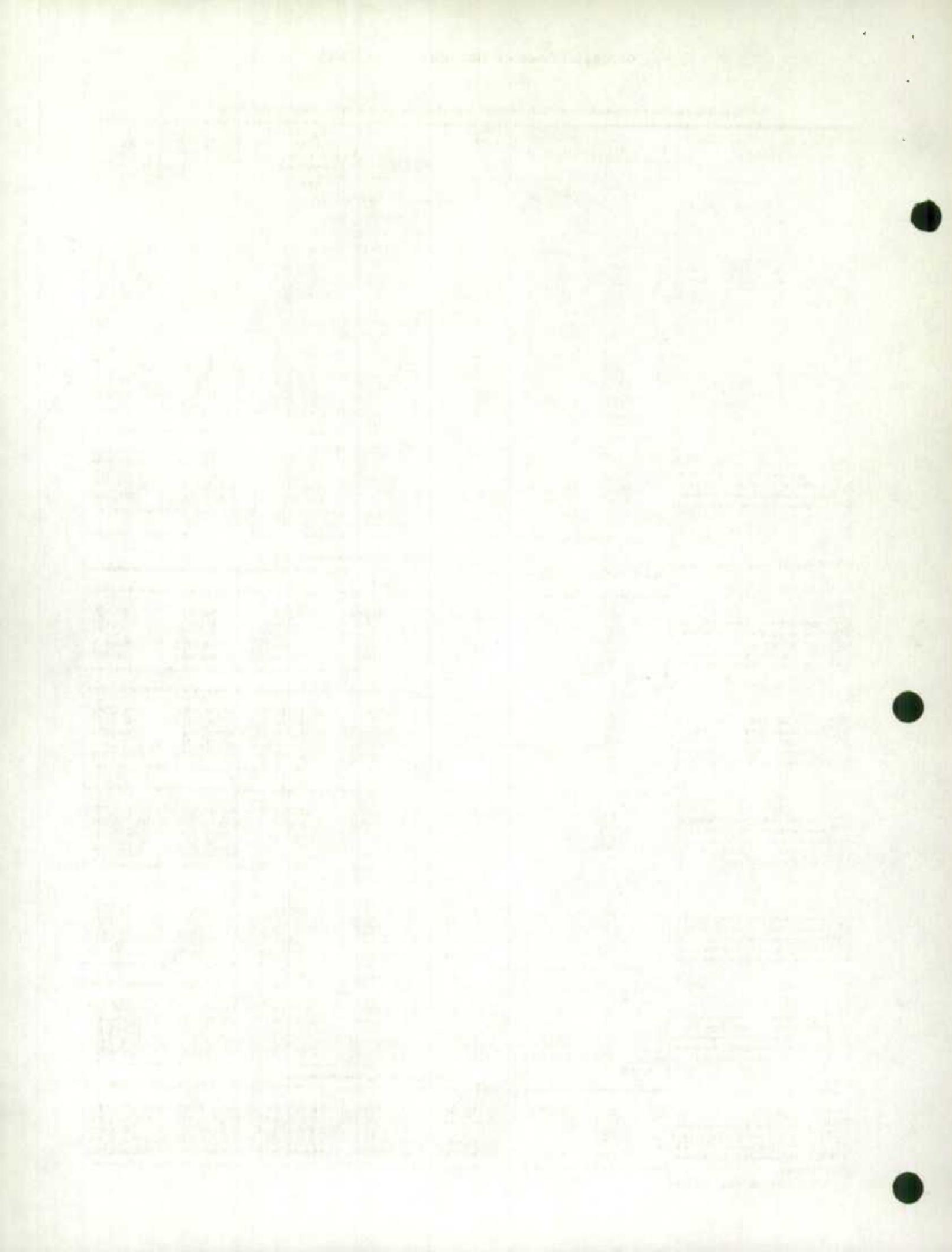
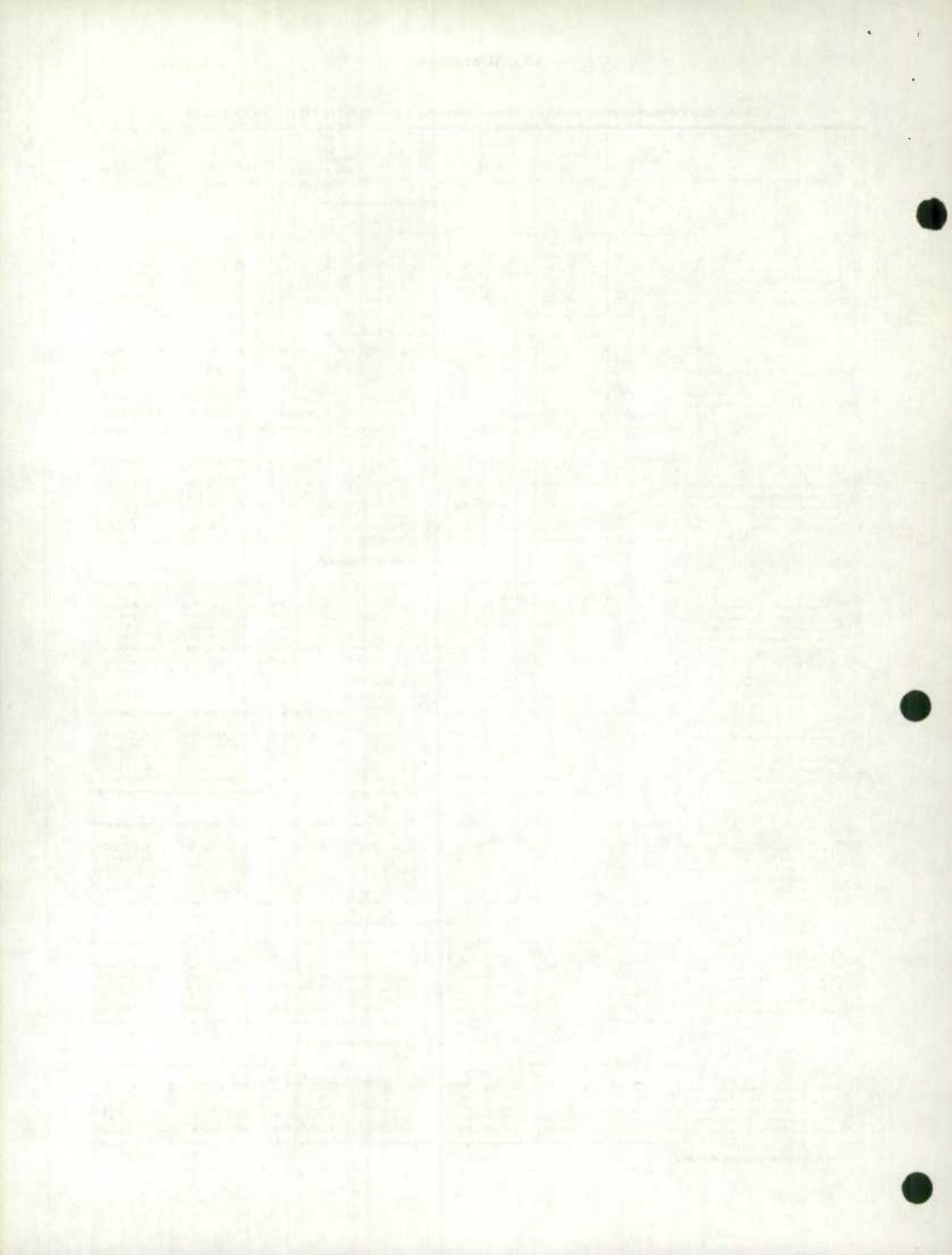


TABLE 23. Principal Statistics of the Mineral Industry, by Industries, 1958-62 - Continued

Year	Establishments ¹	Employees number	Salaries and wages	Cost of fuel and electricity	Cost of process supplies, ores and containers	Gross value of product ²	Net value added by processing ³							
Non-metal mining industries														
Asbestos														
1958	22	6,997	32,025,137	5,740,515	12,798,276	95,271,323	76,732,532							
1959	23	6,653	31,448,638	5,951,664	13,729,736	110,996,692	91,815,292							
1960	24	6,688	33,057,847	6,133,788	14,887,770	125,236,902	104,218,314							
1961	23	6,875	33,093,133	6,666,383	14,645,395	133,407,157	112,637,19							
1962	18	6,997	36,072,604	7,184,372	16,700,356	135,065,565	111,180,537							
Feldspar, quartz and nepheline syenite														
1958	28	414	1,646,943	376,011	587,369	4,858,399	3,728,517							
1959	30	429	1,685,867	386,190	583,378	5,773,221	4,577,424							
1960	23	364	1,400,559	292,827	450,055	5,203,973	4,378,979							
1961	23	339	1,312,770	224,025	397,379	4,795,170	3,820,235							
1962	20	380	1,559,605	261,515	543,634	5,528,543	4,574,332							
Gypsum														
1958	8	501	1,790,669	246,758	664,022	3,939,241	3,028,461							
1959	11	755	2,691,420	313,342	529,297	7,245,486	6,402,847							
1960	9	685	2,431,729	300,623	446,594	8,340,568	7,593,351							
1961	9	613	2,272,477	312,798	1,450,653	6,597,398	4,833,947							
1962	10	608	2,407,662	353,821	1,883,670	8,151,601	5,914,110							
Iron oxides (ochres)														
Included in miscellaneous non-metal mines														
Mica														
1958	25	28	44,848	5,039	4,483	90,643	81,121							
1959	14	16	37,106	3,810	4,090	64,029	56,129							
1960	29	21	38,022	3,303	4,457	95,997	86,237							
1961	30	34	58,258	9,623	7,694	128,296	110,975							
1962	15	21	55,664	5,532	6,315	86,828	74,981							
Peat														
1958	38	1,447	2,484,732	180,976	1,445,196	6,165,375	4,559,201							
1959	38	1,333	2,659,836	238,878	1,732,682	7,908,662	5,937,102							
1960	40	1,172	3,060,511	279,827	1,863,202	7,937,055	5,794,026							
1961	42	1,332	3,528,474	303,976	2,246,064	9,551,831	7,001,791							
1962	49	1,370	3,397,964	363,159	2,357,063	9,817,904	7,097,682							
Salt														
1958	10	789	3,153,407	1,048,037	2,576,101	15,687,157	12,063,019							
1959	12	838	3,452,829	1,168,186	3,114,737	19,081,974	14,799,051							
1960	11	886	3,636,864	1,089,847	2,875,704	19,649,719	15,564,168							
1961	9	912	3,950,358	1,153,724	3,023,969	19,567,945	15,290,252							
1962	11	907	4,271,593	1,183,167	2,988,304	22,381,543	18,210,072							
Talc and soapstone														
1958	4	76	213,576	36,033	105,097	519,781	378,651							
1959	4	65	184,656	39,022	79,062	577,468	459,404							
1960	4	70	235,373	35,985	63,274	565,519	466,260							
1961	4	79	264,622	40,993	83,147	736,340	612,100							
1962	4	82	269,268	42,649	90,124	672,600	539,827							
Miscellaneous non-metal mines														
1958	43	1,240	4,838,000	1,696,159	1,087,789	12,058,468	9,208,609							
1959	39	1,425	5,756,818	1,876,804	1,564,067	13,965,675	10,456,674							
1960	46	1,122	4,548,789	1,859,585	1,004,699	10,773,462	7,600,509							
1961	35	1,098	4,682,743	1,768,707	1,525,703	11,457,737	7,863,064							
1962	27	1,156	5,356,350	1,874,020	1,476,503	15,148,243	11,510,536							
Totals, non-metal mining industries														
1958	178	11,492	46,197,312	9,329,528	19,271,286	138,610,387	109,780,313							
1959	171	11,514	47,917,170	9,977,896	21,337,049	163,613,227	134,003,923							
1960	186	11,008	48,609,694	9,995,785	21,395,755	177,803,200	145,820,874							
1961	175	11,282	51,162,833	10,480,229	23,380,004	186,241,874	151,727,847							
1962	154	11,521	53,390,710	11,268,235	26,043,969	196,832,827	159,102,377							

See footnotes at end of table.



MINERAL STATISTICS

TABLE 23. Principal Statistics of the Mineral Industry, by Industries, 1958-62 - Continued

Year:	Establishments ¹	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies, ores and containers	Gross value of products ²	Net value added by processing ³
Fuels industries							
Coal							
1958.....	139	13,162	42,250,458	4,967,177	10,786,747	79,963,327	64,209,403
1959.....	121	11,485	37,122,895	4,281,690	10,705,703	73,875,895	56,588,502
1960.....	120	11,587	38,734,884	4,313,868	11,720,197	74,676,240	58,642,175
1961.....	113	10,461	35,607,905	4,062,543	10,079,645	72,209,962	58,067,774
1962.....	101	9,470	34,384,876	3,817,918	10,044,625	68,259,558	54,397,015
Petroleum and natural gas							
1958.....	615	4,910	24,231,610	5,157,655	8,245,654	418,921,389	405,518,080
1959.....	618	4,765	25,506,916	6,260,848	8,710,579	451,197,257	436,225,530
1960.....	612	4,349	23,576,753	6,122,389	10,780,762	467,616,813	450,713,662
1961.....	581	4,157	23,647,863	6,160,125	8,343,324	569,567,414	555,063,965
1962.....	499	3,978	23,275,754	6,839,836	7,369,889	690,571,608	676,361,883
Natural gas processing							
1958.....	14	411	2,093,033	734,331	9,501,032	17,509,526	7,274,163
1959.....	14	461	2,525,833	918,608	7,169,778	17,363,197	9,274,811
1960.....	30	669	3,790,433	1,288,028	25,624,323	45,762,680	18,850,529
1961.....	49	744	4,477,319	1,865,994	39,501,327	78,020,013	36,648,692
1962.....	50	845	5,563,243	2,872,439	63,726,737	119,656,070	53,056,894
Totals, fuels industries							
1958.....	768	18,483	68,575,101	10,859,163	28,533,433	516,394,212	177,601,646
1959.....	753	16,711	65,155,644	11,461,146	26,586,360	542,456,349	304,388,843
1960.....	762	16,605	66,102,070	11,724,285	43,125,282	588,053,933	328,206,366
1961.....	743	15,362	63,733,107	12,092,662	57,924,296	719,797,389	649,780,431
1962.....	650	14,293	63,223,573	13,530,193	81,141,251	878,487,236	783,813,792
Structural materials							
Sand and gravel							
1958.....	452	2,505	9,365,391	2,759,529	429,094	41,123,495	37,934,572
1959.....	482	2,738	10,229,651	2,899,356	525,298	42,542,701	39,118,047
1960.....	486	2,704	10,374,485	2,912,450	552,711	43,470,043	40,004,561
1961.....	493	2,513	9,898,545	3,110,456	607,022	39,437,982	35,720,504
1962.....	511	2,722	10,142,949	3,436,089	576,222	45,785,051	41,782,740
Stone							
1958.....	200	3,300	11,263,223	2,595,298	4,404,531	36,492,135	29,492,306
1959.....	202	3,184	11,364,441	2,562,709	4,372,398	40,722,771	33,787,664
1960.....	207	3,105	10,986,822	2,680,275	3,954,352	39,443,050	32,986,408
1961.....	228	3,395	12,623,473	3,028,969	4,550,911	44,708,945	37,129,065
1962.....	207	3,197	12,199,056	3,292,986	5,032,517	47,812,337	39,486,834
Totals, structural materials							
1958.....	632	5,808	20,628,614	5,354,827	4,833,625	77,615,630	67,427,178
1959.....	684	5,922	21,594,092	5,462,065	4,897,696	83,265,472	72,905,711
1960.....	693	5,809	21,361,307	5,410,740	4,511,063	82,913,093	72,991,290
1961.....	721	5,908	22,522,018	6,139,425	5,157,933	84,146,927	72,849,369
1962.....	718	5,919	22,342,005	6,729,075	5,608,739	93,607,388	81,269,574
Totals, mining industries							
1958.....	2,352	97,782	425,030,530	58,653,541	166,990,292	1,596,704,536	1,255,452,951
1959.....	2,430	98,018	441,598,322	61,452,555	176,761,793	1,815,276,583	1,437,929,709
1960.....	2,319	95,304	444,115,679	65,292,207	203,683,776	1,852,469,957	1,453,077,065
1961.....	2,343	92,149	436,178,613	63,680,172	190,132,150	1,941,116,076	1,561,989,376
1962.....	2,086	91,050	449,187,698	68,885,117	218,367,630	2,133,656,847	1,747,733,779

See footnotes at end of table.

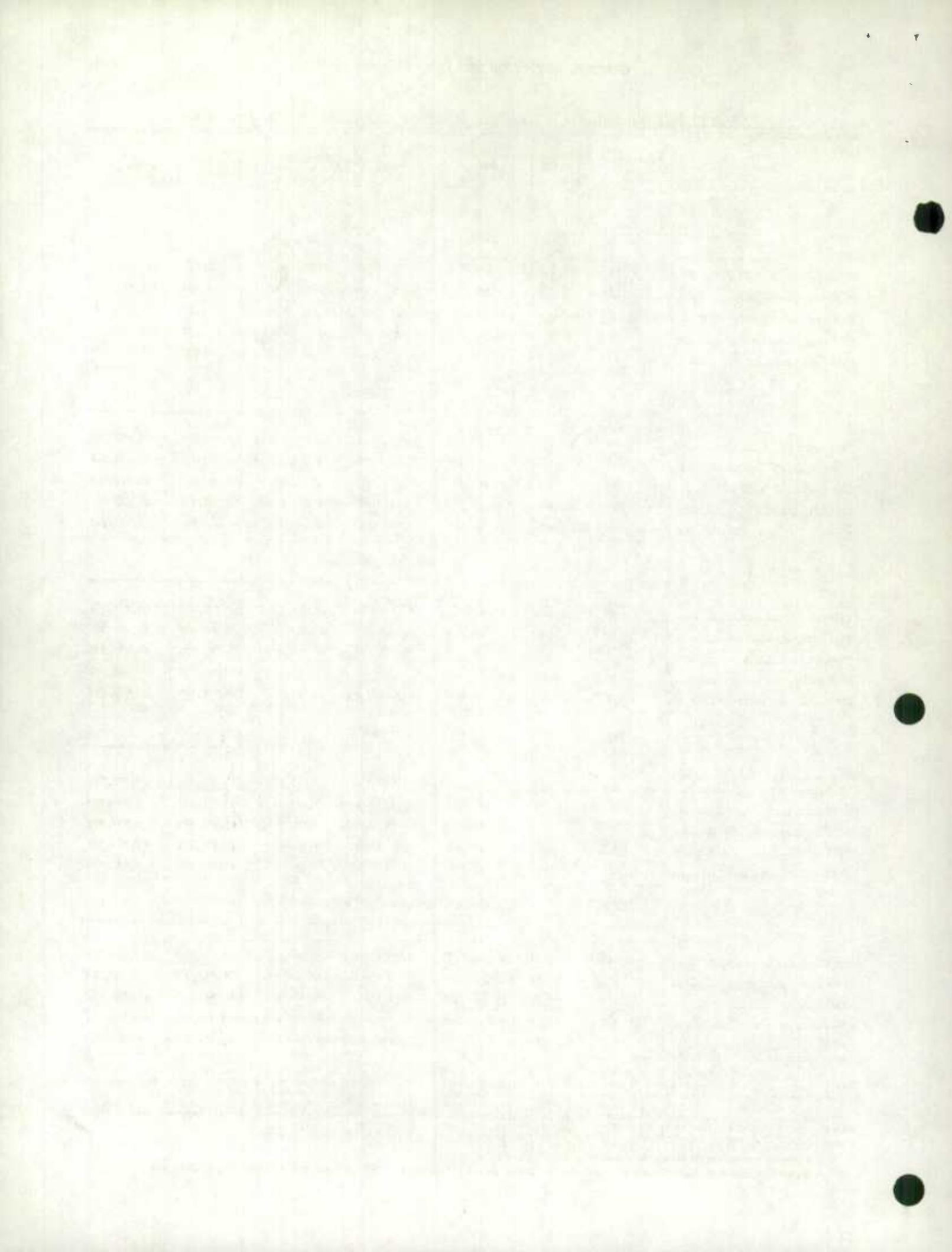


TABLE 23. Principal Statistics of the Mineral Industry, by Industries, 1958-62 — Concluded

Year	Establishments ¹	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies, ores and containers	Gross value of products ²	Net value added by processing ³							
Industries classified as manufacturing														
Smelting and refining														
1958	24	27,361	133,065,591	43,867,569	666,720,963 ⁴	1,132,701,559	422,113,027							
1959	23	28,172	139,319,623	47,340,635	788,217,652 ⁵	1,283,937,955	448,379,668							
1960	22	30,024	155,415,083	50,786,916	896,613,061 ⁶	1,506,008,207	558,608,228							
1961	24	29,527	157,474,973	49,000,322	891,950,994 ⁷	1,471,048,021	530,096,705							
1962	23	29,303	159,439,468	45,702,893	915,966,632 ⁸	1,549,048,522	582,652,997							
Clay products														
1953	109	4,210	15,580,699	6,419,616	1,062,174	41,265,330	33,783,540							
1959	112	4,410	16,894,581	6,380,927	1,368,431	42,152,618	34,403,260							
1960	111	3,979	15,172,005	5,652,962	1,284,138	38,013,902	31,076,802							
1961	99	3,547	13,537,964	5,610,938	4,733,718	34,526,747	24,182,091							
1962	93	3,693	14,793,837	5,405,506	5,645,126	37,053,706	26,771,702							
Cement														
1958	19	3,485	16,359,760	19,009,008	14,758,308	100,181,250	66,413,954							
1959	19	3,516	17,174,256	17,309,329	13,269,944	96,645,659	66,066,366							
1960	20	3,398	17,122,742	15,965,171	11,294,254	95,510,331	68,250,906							
1961	20	3,123	16,697,185	16,262,241	14,358,880	107,044,107	76,422,986							
1962	20	3,320	18,225,588	17,718,744	16,221,481	118,706,149	83,621,996							
Lime														
1958	22	957	3,475,463	2,789,727	1,027,687	13,090,923	9,273,509							
1959	23	1,016	3,801,286	2,763,691	1,149,217	13,306,267	9,393,359							
1960	23	875	3,600,300	2,308,640	882,397	11,468,449	8,277,412							
1961	21	825	3,569,549	2,238,931	1,784,960	12,978,722	8,954,831							
1962	22	896	3,777,375	2,505,150	2,153,403	14,503,433	9,792,207							
Totals, industries classified as manufacturing														
1958	174	36,013	168,481,513	72,085,920	683,569,132	1,287,239,062	531,584,010							
1959	177	37,114	177,189,746	73,794,582	804,005,244	1,436,042,499	558,242,673							
1960	176	38,276	191,310,130	74,713,691	910,073,850	1,651,000,889	666,213,348							
1961	164	37,022	191,279,671	73,112,432	912,828,552	1,625,597,597	639,656,613							
1962	158	37,212	196,236,268	71,332,293	939,986,642	1,717,311,810	702,838,902							

¹ In the publications issued prior to 1960 the figures in this column included the number of mines, quarries, pits and wells. There is a noticeable reduction in the figures which may be explained by an example: an oil firm which operates several hundred wells is now recorded as only 1 unit. Reclassification has removed some of the operators to other industries. Example: former sand and gravel operators to the construction industry.

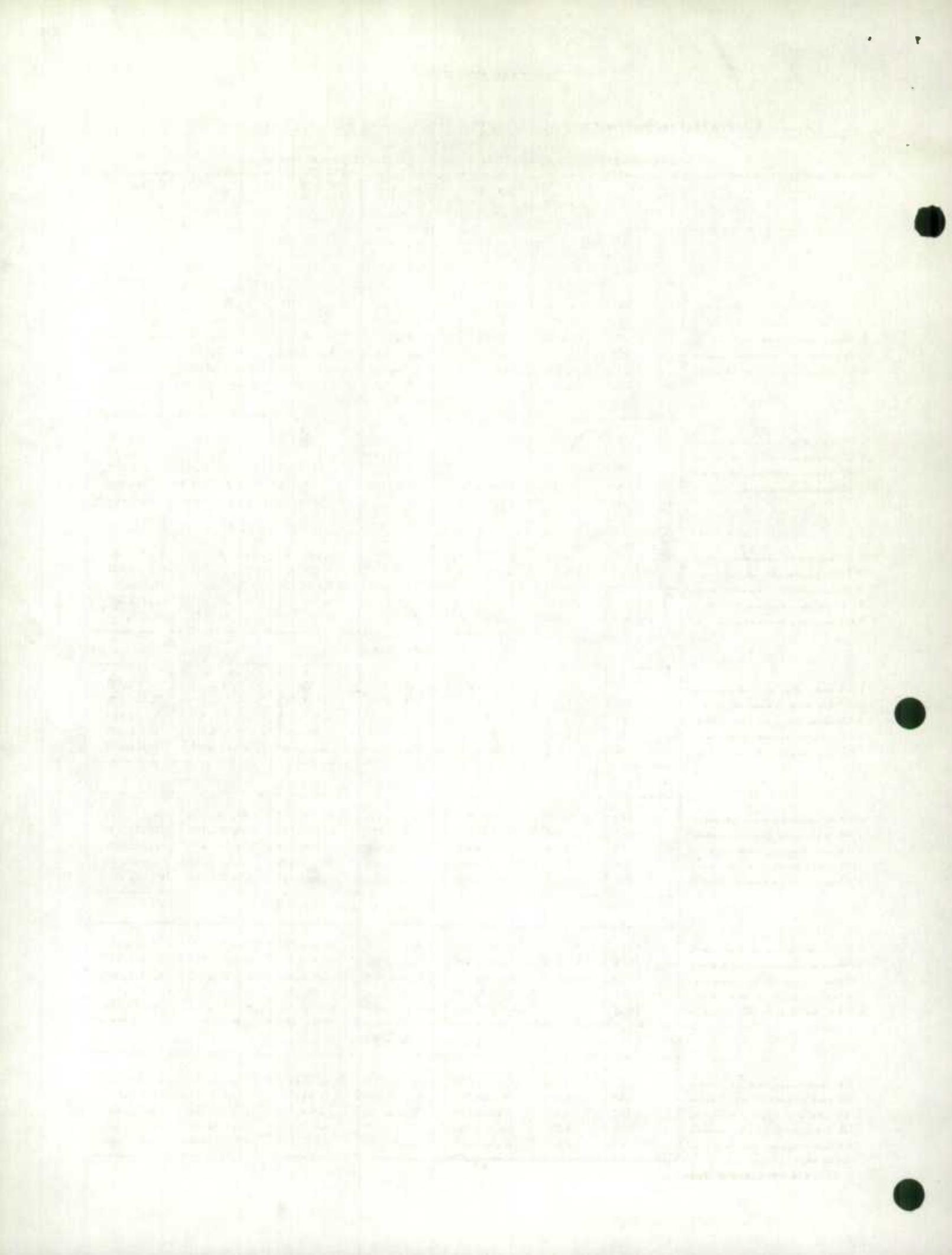
² In this table the compilations are on an industry basis, therefore will not necessarily agree with the commodity series shown in Tables 1 to 17. Comparisons should not be made. Because of the inclusion of figures for the non-ferrous smelting and refining industry, there would be considerable duplication of the overall gross value of production.

³ Gross value, less the cost of fuel, electricity, process supplies, containers, freight and treatment charges.

⁴ Includes data of uranium mines. Data not available for 1941-53.

⁵ Cost of ores and concentrates are included in smelting and refining data.

Note: The number of producing metal mines was as follows: in 1958: 314; in 1959: 292; in 1960: 244; in 1961: 266; in 1962: 208.



MINERAL STATISTICS

TABLE 24. Principal Statistics of the Mineral Industry, by Provinces, 1958-62

Excluding the manufacturing group

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies, ores and containers	Gross value of products	Net value added by processing ¹
Newfoundland							
1958	14	4,024	16,848,281	1,916,109	4,460,687	57,733,377	35,241,070
1959	21	3,566	14,307,275	1,851,721	3,253,993	66,316,497	44,481,687
1960	19	4,001	19,023,157	2,489,728	7,178,381	78,400,300	49,053,221
1961	22	4,293	20,967,991	2,661,119	7,410,901	84,413,353	53,752,858
1962	23	4,268	20,612,908	4,251,642	7,086,046	93,151,850	59,828,746
Prince Edward Island							
1959	5	10	32,181	8,327	2,937	94,642	83,378
1960	5	7	10,921	6,344	878	78,814	71,592
1961	4	2	1,972	1,849	500	126,912	124,563
1962	5	55	186,591	50,402	9,049	305,233	245,782
Nova Scotia							
1958	46	9,876	32,412,790	3,574,659	9,587,513	59,511,056	46,348,884
1959	45	8,742	27,957,768	2,997,538	8,998,936	56,120,291	44,123,817
1960	49	8,982	29,278,841	3,064,614	9,860,469	58,213,993	45,288,910
1961	54	8,322	27,298,520	3,105,054	9,702,664	58,297,039	45,489,321
1962	50	7,493	26,663,163	2,974,159	10,367,767	57,926,572	44,353,868
New Brunswick							
1958	37	1,277	3,792,821	899,474	1,700,718	9,607,148	6,357,683
1959	43	1,347	3,863,287	774,104	2,275,920	11,148,849	8,098,825
1960	58	1,299	4,013,831	771,876	2,575,473	11,281,884	7,934,535
1961	57	1,460	4,730,053	882,962	2,261,440	10,869,031	7,724,629
1962	45	1,536	5,024,153	1,090,484	2,148,000	13,011,755	9,061,945
Quebec							
1958	600	21,000	88,080,507	14,315,523	31,380,337	286,204,222	194,773,823
1959	687	21,845	94,935,063	15,819,111	34,024,250	358,747,211	247,543,928
1960	646	21,765	97,760,714	17,036,640	44,618,573	358,199,423	242,852,975
1961	665	22,795	104,389,513	17,657,085	40,845,420	361,759,540	256,962,472
1962	536	23,720	117,747,643	19,839,705	47,440,221	425,027,861	309,016,600
Ontario							
1958	741	39,779	182,847,416	21,840,537	73,098,949	498,275,197	382,277,729
1959	737	40,999	196,505,860	22,230,941	88,951,307	607,697,777	468,052,907
1960	694	38,517	189,213,218	21,645,108	76,922,208	565,895,811	443,551,662
1961	667	35,125	172,860,677	20,482,960	60,681,579	520,427,508	414,012,771
1962	639	33,204	166,593,030	20,039,400	55,668,140	487,577,301	382,598,304
Manitoba							
1958	78	2,241	10,685,882	1,017,940	2,622,286	33,205,843	27,708,498
1959	80	1,999	9,248,947	930,291	2,412,752	30,408,008	25,243,626
1960	97	2,645	12,745,429	3,440,524	2,904,905	32,694,778	24,745,780
1961	75	3,306	16,866,255	1,639,657	4,432,817	41,705,846	34,060,270
1962	83	4,021	20,669,013	1,728,604	4,603,570	42,425,663	34,631,011

See footnote at end of table.

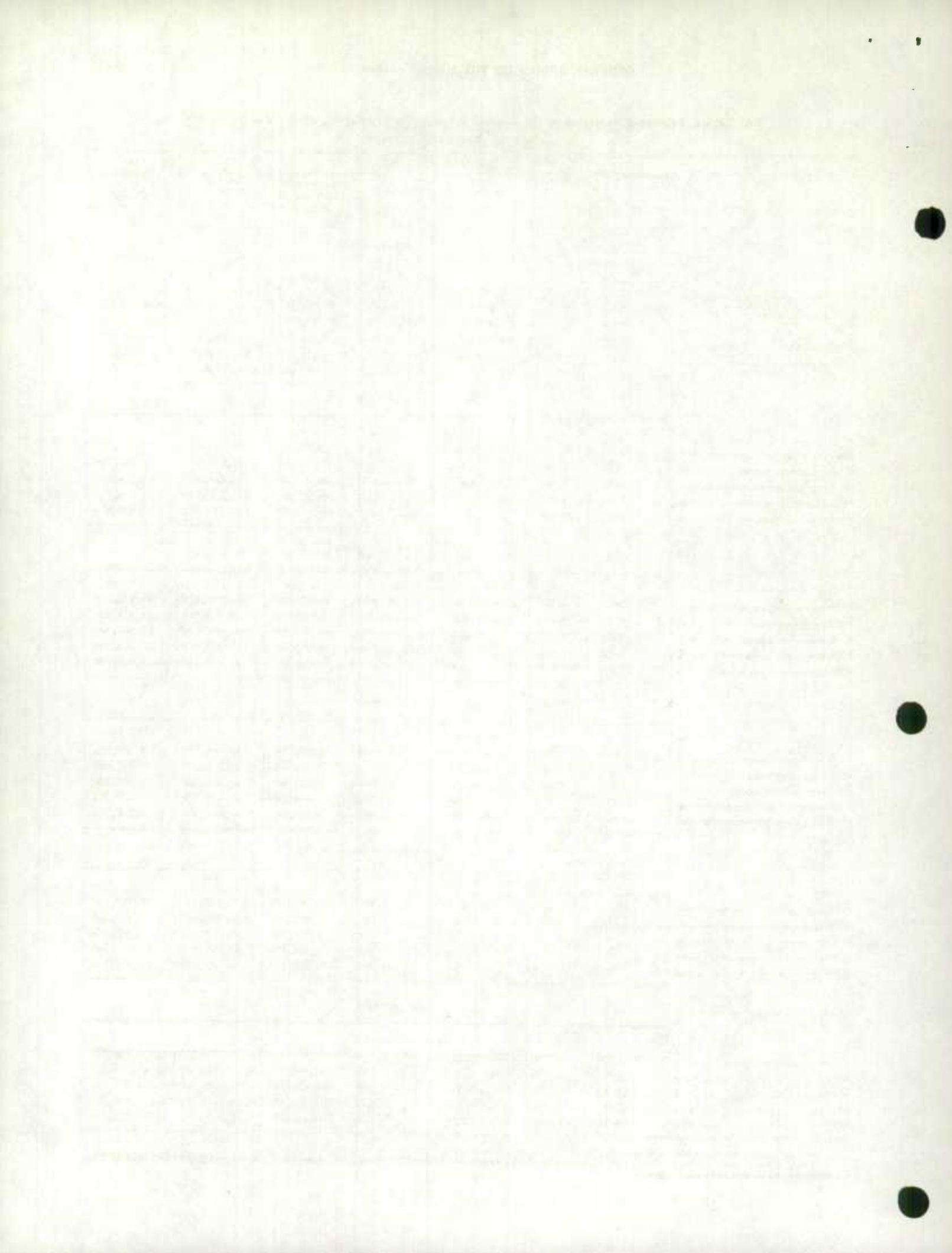


TABLE 24. Principal Statistics of the Mineral Industry, by Provinces, 1958-62 — Concluded
Excluding the manufacturing group

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies, ores and containers	Gross value of products	Net value added by processing ¹
							number
Saskatchewan							
1958	185	4,891	25,667,084	4,439,586	13,086,030	175,652,917	157,939,092
1959	185	5,094	26,864,252	4,897,820	10,966,910	176,495,577	160,500,790
1960	172	4,048	21,888,109	4,281,358	11,132,512	180,002,916 ²	164,587,213
1961	183	3,667	20,311,916	4,249,740	7,686,973	182,144,592 ²	170,207,879
1962	162	2,942	16,939,447	4,054,049	8,246,510	201,325,478 ²	189,024,919
Alberta							
1958	345	5,650	24,123,862	5,282,806	12,328,742	326,690,443	309,078,893
1959	319	5,482	26,331,372	6,331,899	14,576,967	358,106,408	337,197,528
1960	320	5,492	26,806,837	6,674,111	26,062,861	381,851,534 ²	349,114,562
1961	332	4,985	26,070,299	7,082,834	36,967,702	504,249,875 ²	460,199,339
1962	290	4,991	26,722,952	8,203,732	57,845,824	627,982,871 ²	561,933,315
British Columbia							
1958	234	7,118	29,612,489	3,053,049	14,629,037	114,701,524	69,533,926
1959	233	6,990	31,200,049	3,205,498	7,642,987	112,570,861	74,623,591
1960	215	6,756	32,704,248	3,669,373	18,704,863	148,606,605 ²	96,566,335
1961	243	6,500	32,716,341	3,828,078	18,492,463	147,676,612 ²	95,501,720
1962	204	7,075	37,239,874	4,717,318	22,568,678	196,023,963 ²	134,838,670
Yukon							
1958	55	723	4,097,107	624,940	1,758,715	11,065,127	6,673,258
1959	58	764	3,634,914	672,729	1,141,578	11,168,633	7,486,433
1960	28	736	4,326,159	732,831	1,771,005	11,264,023	6,864,372
1961	27	719	4,256,748	725,724	408,105	11,625,624	8,125,571
1962	33	813	4,929,898	880,649	1,191,145	12,003,469	8,592,850
Northwest Territories							
1958	17	1,203	6,862,291	1,688,916	2,337,278	24,057,682	19,490,095
1959	17	1,180	6,717,354	1,732,576	2,513,256	26,401,829	20,493,199
1960	16	1,056	6,344,215	1,479,700	1,953,648	25,979,876	22,445,906
1961	14	975	5,708,328	1,363,110	1,241,586	17,820,144	14,828,083
1962	16	932	5,859,026	1,054,973	1,192,680	16,894,829	13,607,769
Canada							
1958	2,352	97,782	425,030,530	58,653,541	166,990,292	1,596,704,336	1,253,452,951
1959	2,430	98,018	441,598,322	61,452,555	176,761,793	1,815,276,583	1,437,929,709
1960	2,319	95,304	444,115,679	65,292,207	203,685,776	1,852,469,957 ²	1,453,077,063
1961	2,343	92,149	436,178,613	63,680,172	190,132,150	1,941,116,076 ²	1,361,989,476
1962	2,086	91,050	449,187,698	68,885,117	218,367,630	2,173,656,847 ²	1,747,733,779

¹ Gross value less cost of fuel, electricity, process supplies, containers, ores, freight and treatment charges.

² Figures have limited use, as they include duplication of natural gas at the well head and the products of natural gas processing plants. Data entered for arithmetical checking purposes.

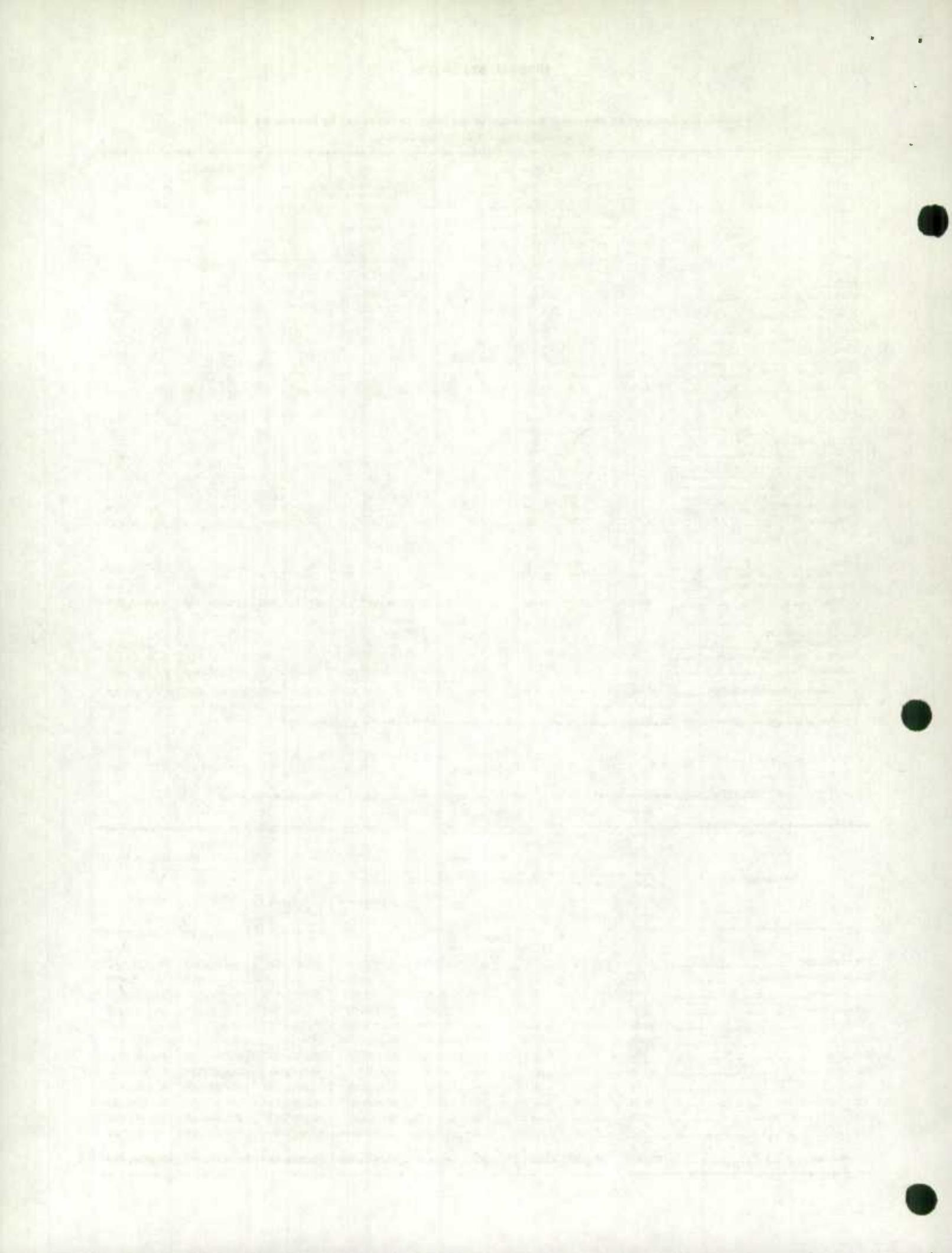


TABLE 25. Employees and their Earnings in the Mineral Industry, by Industries, 1961
Excluding the manufacturing group

Industry	Employees						Man-hours worked (all employees)	Earnings			
	Office and administrative		Workmen		Total ¹			Office and administrative	Workmen	Total	
	Male	Female	Male	Female				Male	Female		
number							dollars				
Metal mining:											
Placer gold	18	6	214	5	243	646,618	156,352	1,169,795	1,326,147		
Gold quartz	1,702	141	13,966	67	15,876	34,342,805	10,548,850	54,916,665	65,465,515		
Copper-gold-silver	1,482	209	9,160	50	10,901	22,564,843	9,143,395	42,315,763	51,459,158		
Silver-cobalt	76	3	475	6	560	1,147,662	407,185	1,809,620	2,216,805		
Silver-lead-zinc	681	53	3,570	48	4,352	9,234,040	4,393,362	17,705,248	22,098,610		
Nickel-copper	1,407	67	12,206	17	13,697	27,166,660	10,785,429	63,969,265	74,754,694		
Iron	1,637	299	6,077	36	8,049	18,454,397	13,045,272	34,062,389	47,107,661		
Miscellaneous metals	877	102	4,925	15	5,919	12,019,515	5,967,071	28,364,992	34,332,063		
Totals	7,880	880	50,593	244	59,597	125,576,540	54,446,916	244,313,737	298,760,653		
Non-metallics:											
Asbestos	948	150	5,742	35	8,875	14,557,092	6,690,597	28,402,536	35,092,103		
Feldspar and quartz	54	9	275	1	339	737,192	344,994	967,776	1,312,736		
Gypsum	94	8	510	1	613	1,173,122	500,161	1,772,316	2,272,477		
Mica	2	—	29	3	34	50,996	3,899	54,359	56,258		
Peat	48	22	1,222	40	1,332	2,571,403	334,310	3,194,164	3,528,474		
Salt	152	27	694	39	912	1,867,280	888,252	3,062,106	3,950,358		
Talc and soapstone	15	4	60	—	79	183,433	83,155	181,467	264,623		
Miscellaneous	199	27	871	1	1,098	2,322,097	1,219,901	3,462,842	4,682,743		
Totals	1,512	247	9,403	120	11,282	23,462,615	10,065,269	41,097,366	51,162,835		
Fuels:											
Coal	866	23	9,572	—	10,461	18,335,464	3,472,749	32,135,156	35,607,905		
Petroleum, natural gas	886	175	3,082	14	4,157	9,008,189	7,017,130	16,630,753	23,647,883		
Natural gas processing	171	16	557	—	744	1,539,033	1,228,857	3,248,462	4,477,319		
Totals	1,923	214	13,211	14	15,362	28,882,686	11,718,736	52,014,371	63,733,107		
Structural materials:											
Sand and gravel	328	75	2,100	10	2,513	6,003,188	1,772,735	8,125,810	9,895,545		
Stone	402	53	2,938	2	3,395	7,902,770	2,101,990	10,521,483	12,623,473		
Totals	730	128	5,038	12	5,908	13,905,958	3,874,725	18,647,293	22,522,018		
Totals, mineral industry	12,045	1,469	78,245	390	92,149	191,827,799	80,105,646	356,072,967	436,178,613		

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

TABLE 26. Employees and their Earnings in the Mineral Industry, by Provinces, 1961
Excluding the manufacturing group

Province	Employees						Man-hours worked (all employees)	Earnings			
	Office and administrative		Workmen		Total			Office and administrative	Workmen	Total	
	Male	Female	Male	Female				Male	Female		
number							dollars				
Newfoundland	738	82	3,429	46	4,293	9,981,287	4,722,226	16,245,765	20,967,991		
Prince Edward Island	—	—	2	—	2	1,702	—	1,972	1,972		
Nova Scotia	727	23	7,559	13	8,322	14,599,478	2,897,087	24,401,433	27,298,520		
New Brunswick	90	7	1,362	1	1,460	3,044,869	448,713	4,281,340	4,730,053		
Quebec	3,058	490	19,171	76	22,795	49,413,057	19,925,990	84,463,523	104,389,513		
Ontario	3,982	409	30,628	106	35,125	71,889,578	28,093,541	144,767,136	172,860,677		
Manitoba	491	66	2,714	35	3,306	7,421,843	3,426,378	13,439,877	16,866,255		
Saskatchewan	635	139	2,675	18	3,667	7,692,184	5,946,356	14,365,560	20,311,916		
Alberta	812	134	4,023	16	4,985	10,227,128	5,891,271	20,179,028	26,070,299		
British Columbia	1,045	87	5,299	69	6,500	13,438,411	6,779,864	25,936,457	32,716,341		
Northwest Territories	189	17	763	6	975	2,388,182	1,336,680	4,371,648	5,708,328		
Yukon	80	15	620	4	719	1,720,080	637,520	3,619,226	4,256,748		
Canada	12,045	1,469	78,245	390	92,149	191,827,799	80,105,646	356,072,967	436,178,613		

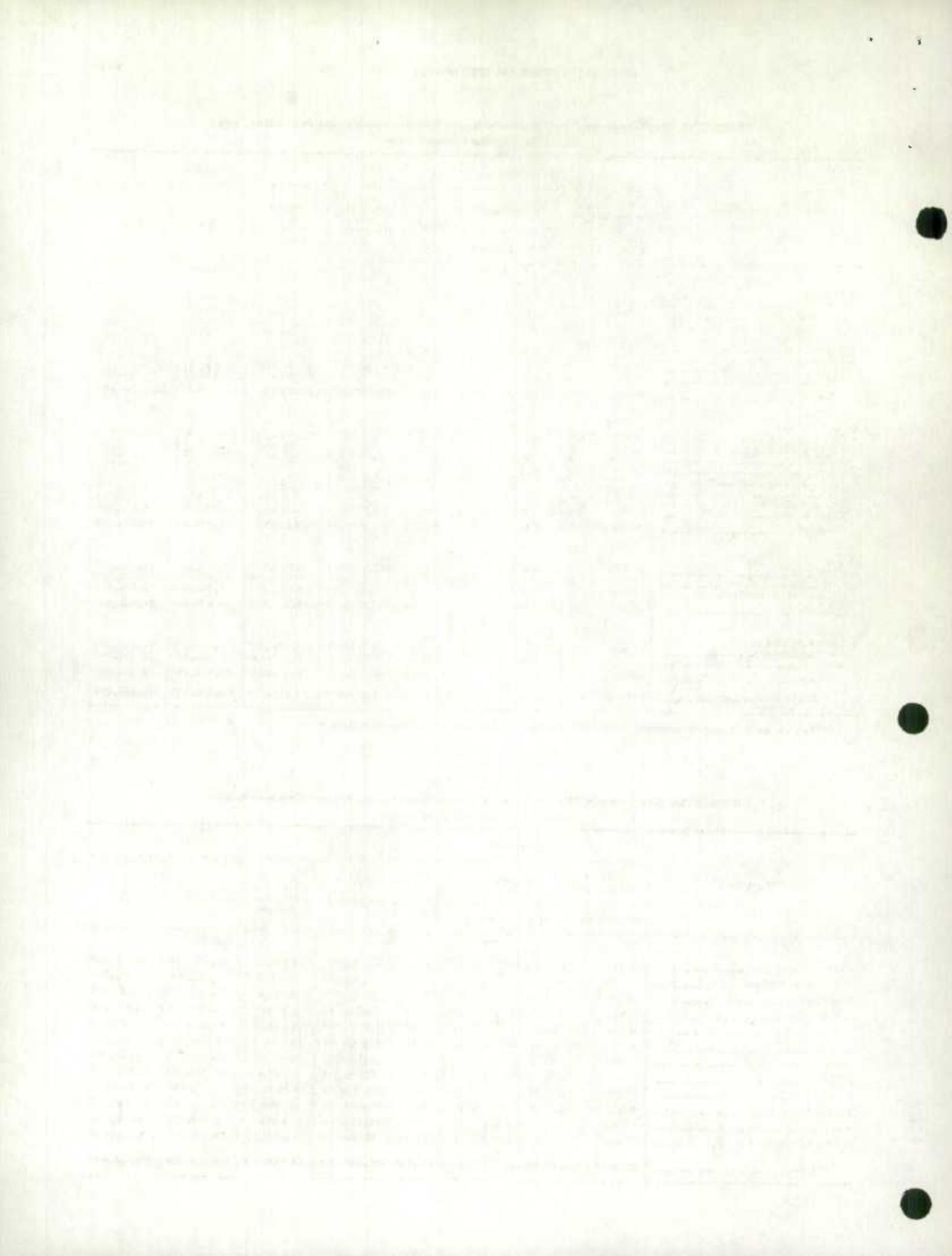


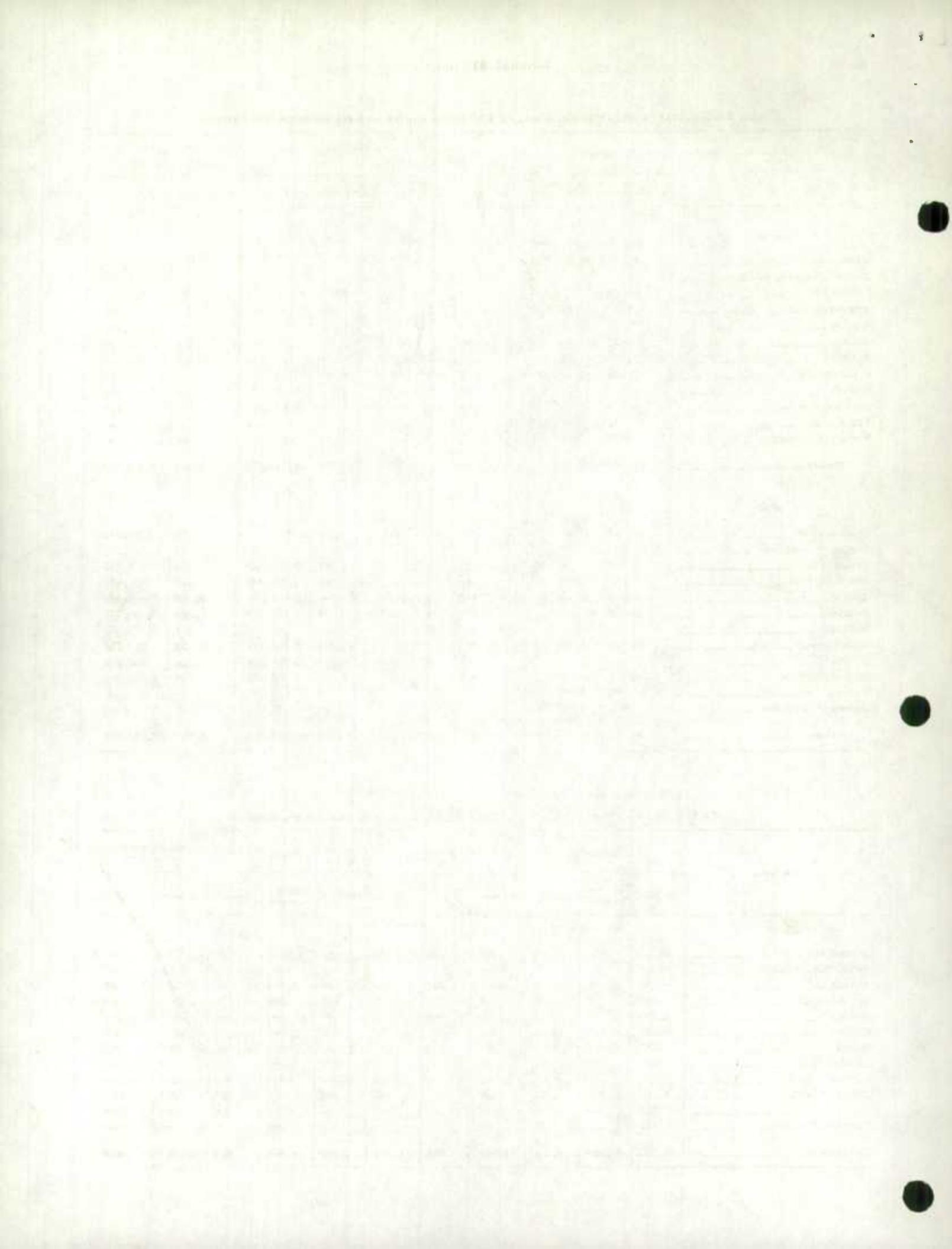
TABLE 27. Employees and their Earnings in the Mineral Industry, by Industries, 1962
Excluding the manufacturing group

Industry	Employees					Man-hours worked (all employees)	Earnings			
	Office and administrative		Workmen		Total ¹		Office and administrative	Workmen	Total	
	Male	Female	Male	Female						
number					dollars					
Metal mining:										
Placer gold	17	5	204	5	231	608,943	148,485	1,192,468	1,340,953	
Gold quartz	1,707	143	13,310	60	15,220	33,287,992	10,412,397	54,166,547	64,578,944	
Copper-gold-silver	1,550	206	9,239	51	11,046	22,849,287	9,798,255	43,690,930	53,489,165	
Silver-lead-zinc	85	6	515	5	611	1,297,556	398,006	2,119,006	2,517,012	
Nickel-copper	693	53	3,738	48	4,532	9,601,866	4,646,078	18,659,907	23,545,953	
Iron	1,353	63	11,891	15	13,342	26,137,884	10,566,004	63,483,976	74,049,960	
Mica	2,479	449	6,263	24	9,215	20,824,021	18,121,190	42,233,219	60,354,408	
Miscellaneous metals	737	91	4,287	5	5,120	10,436,396	5,241,755	25,112,587	30,354,642	
Totals	8,621	1,036	49,447	213	59,317	125,043,945	59,332,170	250,898,940	310,231,110	
Non-metalliferous:										
Asbestos	977	156	5,831	33	6,997	15,046,076	7,034,170	29,038,434	36,072,504	
Feldspar and quartz	56	9	314	1	380	865,005	349,080	1,210,525	1,559,605	
Gypsum	99	11	497	1	608	1,248,424	571,584	1,826,578	2,407,562	
Clay	1	—	20	—	21	42,356	9,320	46,344	55,664	
Peat	53	22	1,267	28	1,370	2,570,828	329,792	3,058,172	3,387,704	
Salt	114	25	732	36	907	1,635,854	822,690	3,448,903	4,271,593	
Talc and soapstone	14	3	65	—	82	181,750	80,088	169,180	269,268	
Miscellaneous	214	24	917	1	1,156	2,514,435	1,343,528	4,012,822	5,356,350	
Totals	1,528	250	9,643	100	11,321	24,304,739	10,540,252	42,850,458	53,390,710	
Fuels:										
Coal	791	30	8,649	—	9,470	17,187,360	3,322,329	31,062,547	34,384,876	
Petroleum, natural gas	845	172	2,934	27	3,978	8,591,062	6,755,971	16,519,783	23,275,754	
Natural gas processing	174	18	653	—	845	1,761,105	1,332,315	4,230,928	5,563,243	
Totals	1,810	220	12,236	27	14,293	27,539,527	11,410,615	51,813,258	63,223,873	
Structural materials:										
Sand and gravel	320	60	2,330	12	2,722	6,213,961	1,684,837	8,458,112	10,142,949	
Stone	367	58	2,771	1	3,197	7,317,908	1,984,499	10,214,557	12,199,056	
Totals	687	118	5,101	13	5,919	13,531,869	3,669,336	18,672,668	22,342,005	
Totals, mineral industry	12,646	1,624	76,427	353	91,050	190,420,080	84,952,373	364,235,325	449,187,698	

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

TABLE 28. Employees and their Earnings in the Mineral Industry, by Provinces, 1962
Excluding the manufacturing group

Province	Employees					Man-hours worked (all employees)	Earnings			
	Office and administrative		Workmen		Total		Office and administrative	Workmen	Total	
	Male	Female	Male	Female						
number					dollars					
Newfoundland	1,200	167	2,865	36	4,268	8,504,898	6,491,620	14,121,288	20,612,908	
Prince Edward Island	2	—	51	2	55	154,351	13,200	173,391	186,591	
Nova Scotia	625	19	6,838	11	7,493	13,810,158	2,548,441	24,114,722	26,663,163	
New Brunswick	124	10	1,401	1	1,536	3,228,900	679,095	4,345,058	5,024,153	
Quebec	3,448	564	19,638	70	23,720	52,511,801	24,154,880	93,592,763	117,747,643	
Ontario	3,747	373	26,997	87	33,204	68,452,116	26,693,727	139,899,303	166,593,030	
Manitoba	553	98	3,329	41	4,021	8,562,531	3,709,218	16,959,795	20,669,013	
Saskatchewan	647	109	2,173	13	2,942	6,170,447	4,717,177	12,222,270	16,939,447	
Alberta	793	128	4,040	30	4,991	10,086,821	5,719,276	21,003,676	26,722,952	
British Columbia	1,211	122	5,688	54	7,075	14,600,342	8,072,128	21,777,746	37,239,874	
Yukon	97	16	696	4	813	1,946,323	696,365	4,233,533	4,929,898	
Northwest Territories	199	18	711	4	932	2,391,392	1,457,246	4,401,780	5,859,028	
Canada	12,646	1,624	76,427	353	91,050	190,420,080	84,952,373	364,235,325	449,187,698	



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TABLE 29. Employees and their Earnings, by Provinces and by Mineral Classes, 1961 and 1962

Province	Metals		Non-metals		Fuels		Stone, sand and gravel	
	Employees	Earnings	Employees	Earnings	Employees	Earnings	Employees	Earnings
	No.	\$	No.	\$	No.	\$	No.	\$
1961								
Newfoundland	3,847	19,302,756	347	1,334,583	—	—	99	330,647
Prince Edward Island	—	—	—	—	—	—	2	1,972
Nova Scotia	7	21,825	900	3,346,599	7,203	23,150,604	212	779,492
New Brunswick	138	611,181	293	645,093	876	3,007,805	153	465,974
Quebec	13,257	61,998,301	7,213	34,243,430	—	—	2,325	8,147,782
Ontario	31,612	158,109,933	1,069	5,158,403	210	577,604	2,234	9,014,737
Manitoba	2,792	14,922,806	191	624,615	94	470,018	229	848,816
Saskatchewan	2,270	13,051,482	245	1,124,226	1,089	5,850,649	63	285,559
Alberta	—	—	61	193,903	4,652	24,755,937	272	1,120,459
British Columbia	4,009	21,008,324	963	4,491,978	1,209	5,689,459	319	1,526,580
Yukon	712	4,216,804	—	—	7	39,944	—	—
Northwest Territories	953	5,517,241	—	—	22	191,087	—	—
Canada	59,597	298,260,653	11,282	51,162,835	15,362	63,733,107	5,908	22,522,018
1962								
Newfoundland	3,857	19,079,579	319	1,268,565	—	—	92	264,764
Prince Edward Island	—	—	—	—	—	—	55	186,591
Nova Scotia	47	142,499	864	3,390,425	8,408	22,583,423	174	546,816
New Brunswick	296	1,346,082	298	619,532	814	2,680,737	128	377,802
Quebec	14,058	74,115,584	7,459	35,750,303	—	—	2,203	7,881,756
Ontario	29,640	151,099,470	1,096	5,631,532	168	562,249	2,300	9,299,779
Manitoba	3,514	18,858,870	187	559,543	45	182,288	275	1,068,312
Saskatchewan	1,549	9,519,783	328	1,695,955	1,033	5,601,446	32	122,263
Alberta	—	—	65	256,310	4,610	25,530,313	316	936,329
British Columbia	4,631	25,402,315	905	4,218,545	1,195	5,961,421	344	1,657,593
Yukon	804	4,879,221	—	—	9	50,677	—	—
Northwest Territories	921	5,787,707	—	—	11	71,319	—	—
Canada	59,317	310,231,110	11,521	53,380,710	14,283	63,223,873	5,919	22,342,005

TABLE 30. Wage-earners on the Surface, Underground and in the Mill, 1962

Province	Metal mines			Non-metals			Fuels			Stone, sand and gravel	
	Surface	Under- ground	Mill	Surface	Under- ground	Mill	Surface	Under- ground	Plant	Surface	Mill
number											
Newfoundland	1,116	931	502	157	102	13	—	—	—	80	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	53	—
Nova Scotia	30	13	—	447	104	174	679	5,241	—	134	27
New Brunswick	103	99	40	254	—	35	468	289	—	73	41
Quebec	4,255	5,140	2,054	3,000	464	2,867	—	—	—	1,415	513
Ontario	6,310	17,190	2,601	242	275	393	143	—	—	1,871	59
Manitoba	997	1,647	275	79	6	82	37	—	—	205	42
Saskatchewan	418	582	212	65	—	176	701	—	10	22	—
Alberta	—	—	—	—	—	49	2,525	615	595	286	—
British Columbia	1,385	1,689	673	337	—	422	368	527	48	280	13
Yukon	322	330	40	—	—	—	2	6	—	—	—
Northwest Territories	261	338	107	—	—	—	9	—	—	—	—
Canada	15,197	27,959	6,504	4,581	951	4,211	4,932	6,678	653	4,419	695

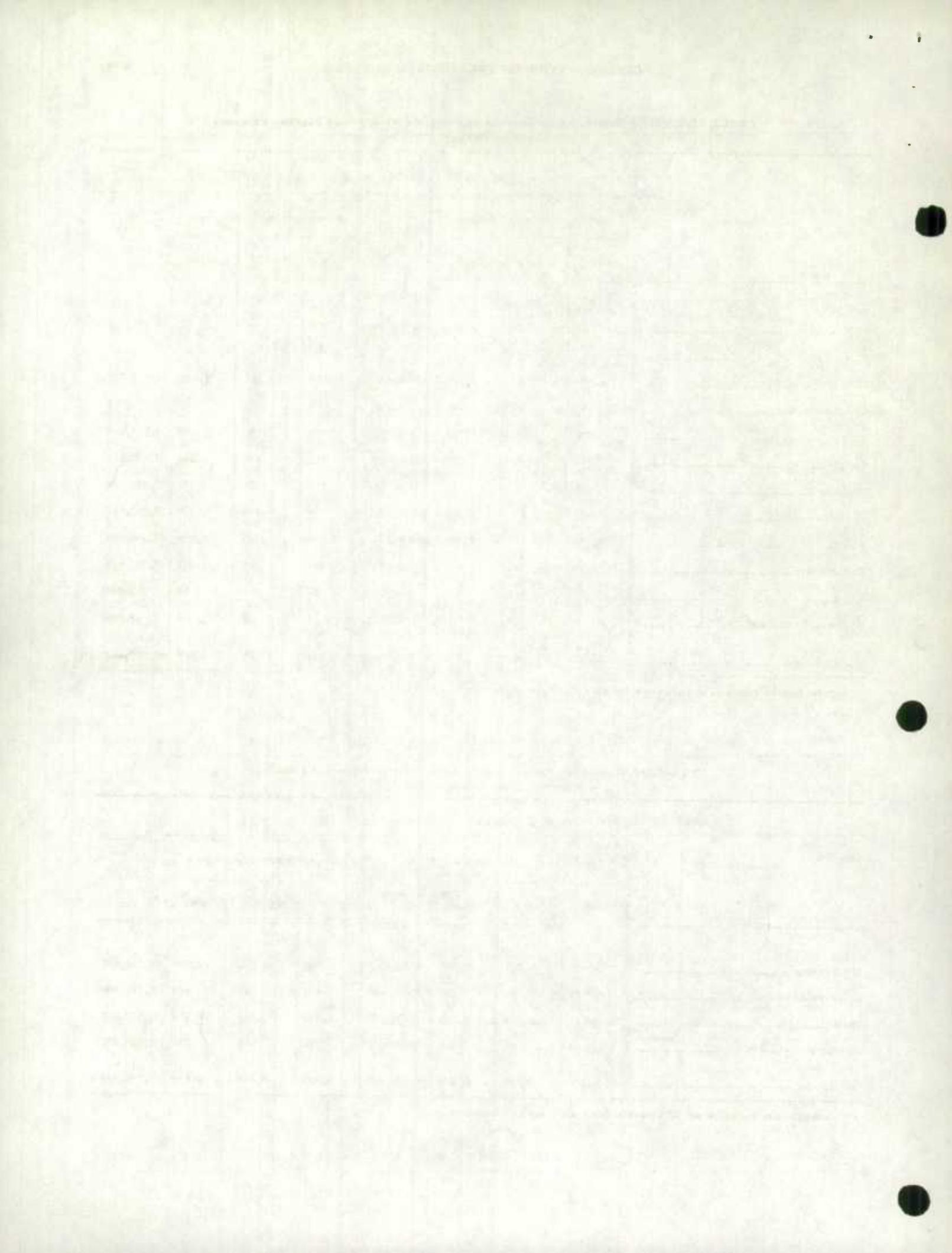


TABLE 31. Mining Industry, Administration and Office Employees at Places in Canada,
Except at Mine or Plant, 1961-62

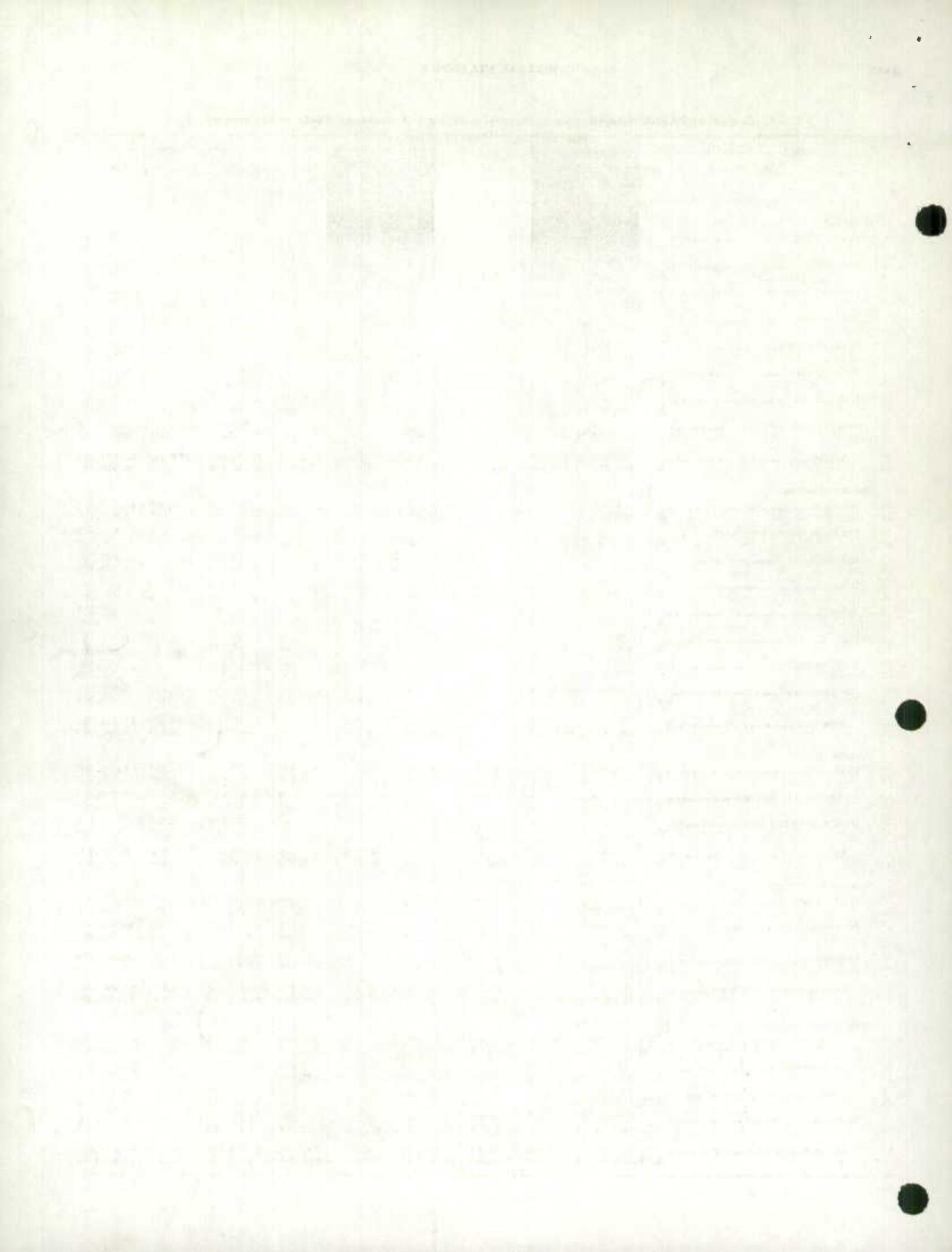
Plant location	1961			\$	1962			\$		
	Average number of employees				Salaries and wages	Average number of employees				
	Male	Female	Total			Male	Female			
Newfoundland	35	20	55	313,414	62	18	80	439,749		
Prince Edward Island	-	-	-	-	-	-	-	-		
Nova Scotia	1,166	61	1,227	4,787,113	975	55	1,030	4,765,427		
New Brunswick	52	17	69	434,244	37	12	49	241,108		
Quebec	599	162	761	4,920,541	493	141	634	4,664,578		
Ontario	264	91	355	2,730,249	408	130	538	4,022,429		
Manitoba	74	23	97	733,038	171	51	222	1,872,129		
Saskatchewan	494	133	627	4,293,553	290	100	390	2,952,847		
Alberta	4,635	1,517	6,152	42,330,768	4,693	1,515	6,208	45,434,118		
British Columbia	354	113	467	3,445,047	351	101	452	4,042,043		
Yukon	93	12	105	312,581	47	4	51	283,136		
Northwest Territories	6	3	9	63,042	5	1	6	69,600		
Canada	7,772	2,152	9,924	64,363,590	7,532	2,128	9,660	68,787,164		

Note: Data in Tables 31 and 32 are not included elsewhere in this report.

TABLE 32. Administration and Office Employees at Places in Canada,
Except at Mine or Plant, 1961-62

Industry	1961			\$	1962			\$		
	Average number of employees				Salaries and wages	Average number of employees				
	Male	Female	Total			Male	Female			
Metal mining	1,007	290	1,297	8,855,655	998	263	1,261	10,214,801		
Non-metallic mining	71	26	97	632,630	104	61	165	1,246,605		
Fuels	6,514	1,789	8,303	53,776,243	6,213	1,743	7,958	55,622,401		
Stone, sand and gravel	180	47	227	1,099,062	217	61	278	1,703,357		
Totals	7,772	2,152	9,924	64,363,590	7,532	2,128	9,660	68,787,164		

Note: Data in Tables 31 and 32 are not included elsewhere in this report.



MINERAL STATISTICS

TABLE 33. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and Industries, 1961

Industry	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Kerosene	Fuel oil
	Canadian	Imported							
Metal mining:									
Placer gold	48	-	-	-	-	-	48,742	310	182,866
	\$ 763						21,857	282	58,158
Gold quartz	1,078	11,197	39	628	-	5	371,121	11,438	3,426,542
	\$ 18,200	181,982	1,139	11,159		157	152,190	3,507	712,286
Copper-gold-silver	1,439	1,271	41	19	-	37	490,519	5,176	6,110,955
	\$ 18,348	22,922	587	756		887	182,828	1,750	1,069,335
Silver-cobalt	-	1,053	-	19	-	-	43,790	1,081	180,490
	\$ -	22,191		607			17,921	249	36,153
Silver-lead-zinc	7,891	5,478	13,339	9	381	-	206,581	1,962	3,154,247
	\$ 191,485	113,512	125,191	354	6,177		84,031	595	602,402
Nickel-copper	13	7,657	542	677	-	-	185,515	14,854	6,913,192
	\$ 507	103,674	4,715	11,927			69,659	3,422	959,929
Iron	836	-	-	-	-	6,519	1,289,707	50,036	24,448,817
	\$ 14,289					71,986	416,984	21,440	3,566,422
Miscellaneous metals	19	82,263	-	13	-	-	322,587	35,719	8,176,255
	\$ 290	1,169,203		630			123,210	6,714	1,507,862
Totals	11,324	108,919	13,961	1,365	381	6,561	2,958,562	120,576	52,593,364
	\$ 243,882	1,613,484	131,632	25,433	6,177	73,030	1,068,680	37,959	8,512,547
Non-metal mining:									
Asbestos	4,485	353	-	14,687	-	-	534,398	4,239	18,316,351
	\$ 66,675	4,768		243,463			198,985	1,047	2,682,878
Feldspar, quartz, nepheline	-	-	-	1	-	-	88,700	399	635,920
	\$ -			27			33,747	80	96,708
Gypsum	-	-	-	-	-	-	49,760	-	887,748
	\$ -						19,034	-	140,812
Mica	94	-	-	-	-	-	13,429	5	-
	\$ 1,599						5,785	2	-
Peat	-	-	-	-	-	-	266,094	50	162,336
	\$ -						85,816	18	22,600
Salt	15,656	21,884	-	-	-	-	43,227	121	4,528,810
	\$ 158,893	201,367					12,676	31	381,924
Talc, soapstone	-	-	-	-	-	-	13,403	-	17,864
	\$ -						4,547	-	3,326
Miscellaneous	14,880	403	-	-	646	-	199,256	38,661	6,578,025
	\$ 62,562	7,294			3,339		71,475	7,415	633,353
Totals	35,115	22,640	-	14,688	646	-	1,208,270	43,475	31,131,054
	\$ 289,729	213,429	-	243,490	3,339	-	432,063	8,593	3,961,599
Mineral fuels:									
Coal	36,101	-	1,485	-	12,123	117	713,923	15,849	1,806,367
	\$ 331,709		5,780		15,215	2,563	224,453	4,997	339,750
Petroleum, natural gas	1	-	-	7	1	1	5,962,733	2,528	1,206,198
	\$ 25			269	9	28	2,378,205	711	252,324
Natural gas processing	-	-	-	-	-	-	174,792	1,170	6,734
	\$ -						53,904	322	1,284
Totals	36,102	-	1,485	7	12,124	118	6,851,448	19,547	3,019,299
	\$ 331,734	-	5,780	269	15,224	2,591	2,656,362	6,030	593,358
Structural materials:									
Sand and gravel	652	-	-	10	-	-	4,696,412	600	4,563,386
	\$ 10,125			293			1,591,384	158	898,039
Stone	1,109	25,128	256	12	-	2	1,737,785	729	3,798,593
	\$ 18,215	280,996	2,943	385		54	621,228	219	731,852
Totals	1,761	25,128	256	22	-	2	6,434,197	1,329	8,301,979
	\$ 28,340	280,996	2,943	678	-	54	2,212,672	377	1,629,891
Totals, mineral industries	84,302	156,687	15,702	16,082	13,151	6,681	17,432,477	184,927	95,045,696
	\$ 893,685	2,107,909	140,353	269,870	24,740	75,673	6,369,979	52,939	14,697,393
Manufacturing group:									
Smelting and refining	511,014	327,849	1,933	152,744	-	281,444	834,980	31,907	61,377,202
	\$ 6,418,164	4,036,924	16,817	1,918,245		6,021,222	234,964	9,353	5,264,939
Clay products	9,889	72,516	-	1,574	-	925	825,221	1,215	14,267,767
	\$ 150,215	1,125,831		30,794		18,308	283,702	388	1,274,035
Cement	306,296	288,542	-	-	-	-	284,375	14,423	14,858,902
	\$ 2,923,320	3,011,847					75,760	3,450	1,199,750
Lime	2,995	92,844	3,155	-	7,388	589	234,018	-	5,265,765
	\$ 42,288	1,178,572	27,600	-	45,846	8,789	65,132	-	406,035
Totals, manufacturing group	830,194	781,751	5,088	154,318	7,388	282,958	2,178,594	47,545	95,669,636
	\$ 9,533,987	9,353,174	44,417	1,949,039	45,846	6,048,319	659,558	13,191	8,144,759

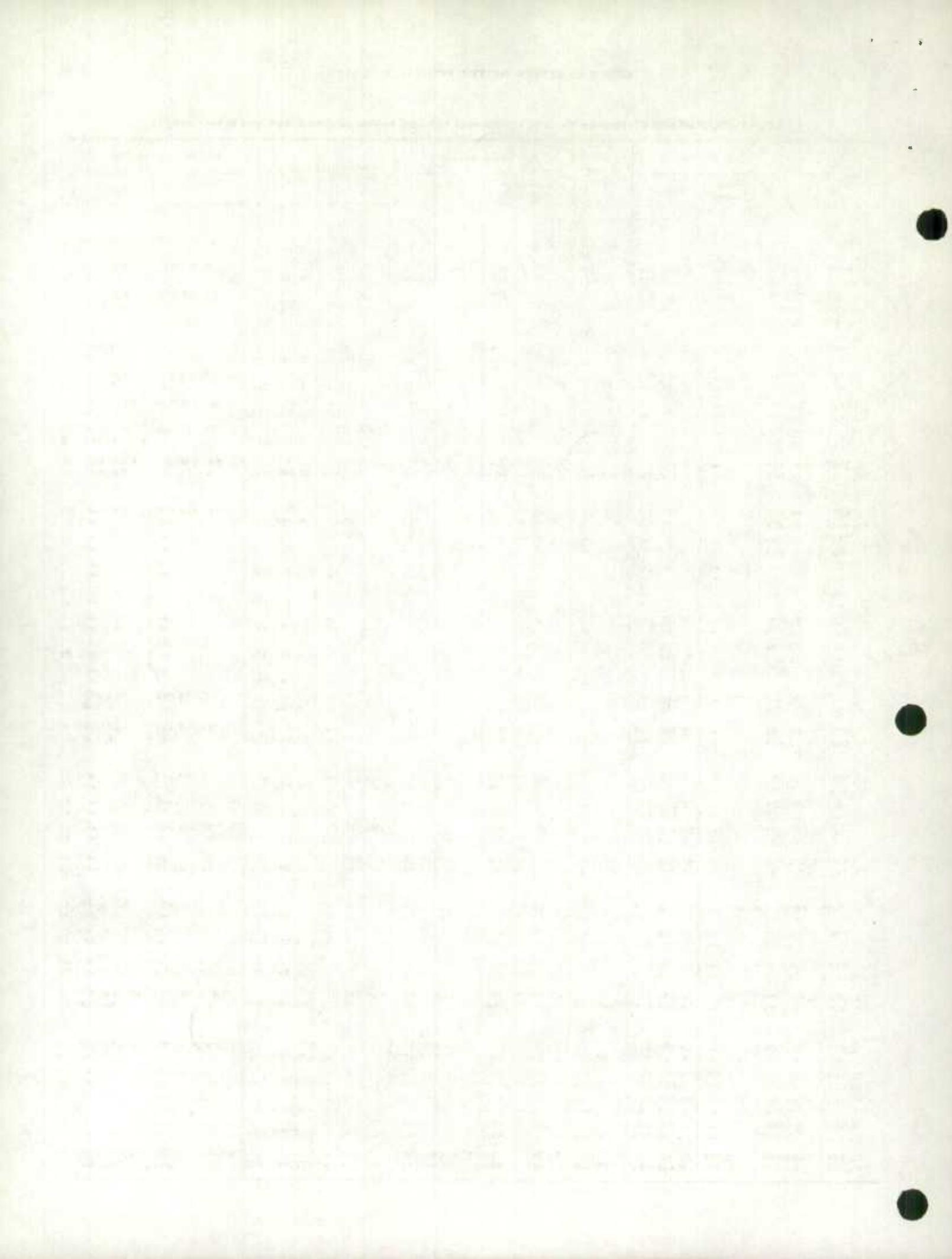
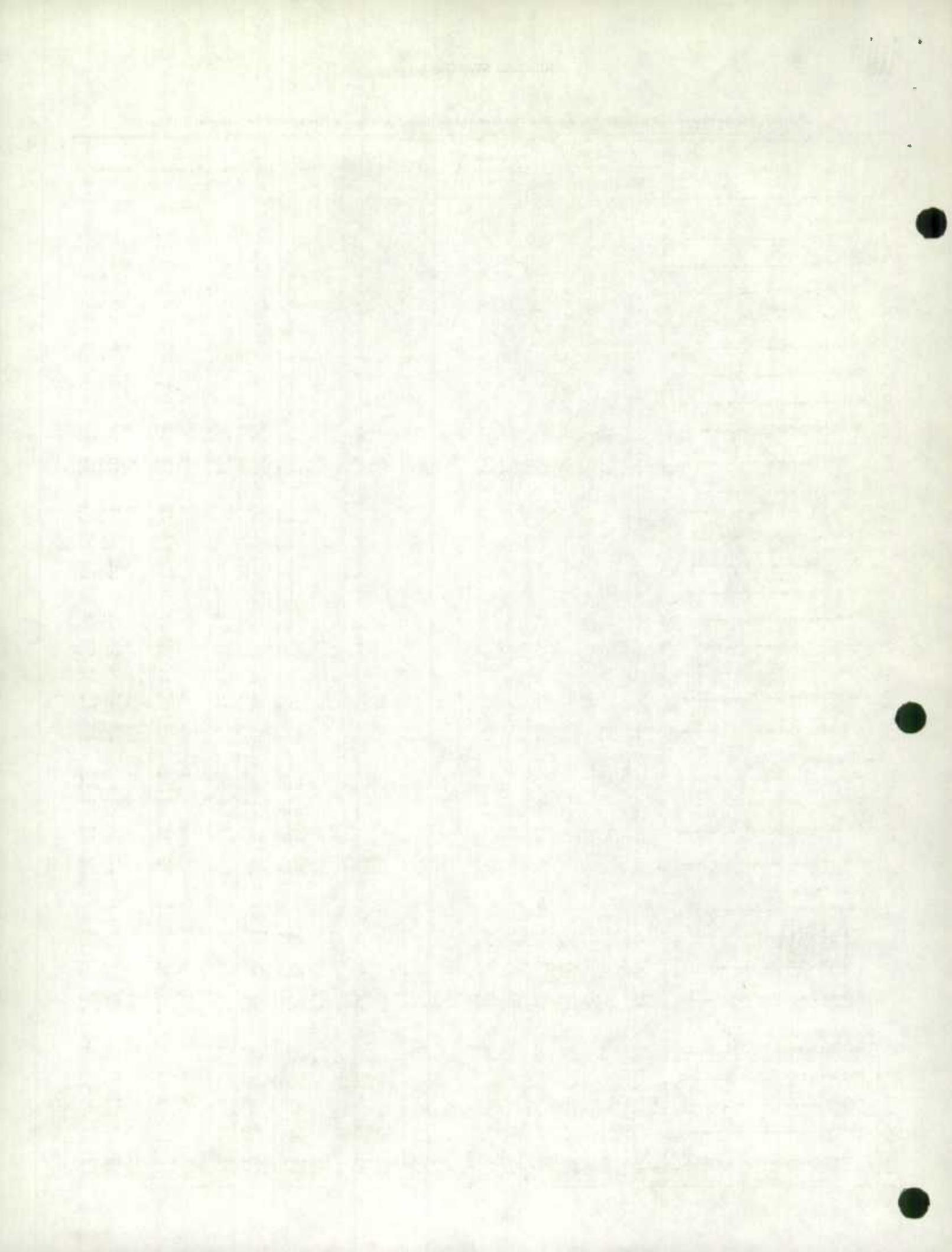


TABLE 33. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and Industries, 1961

Ind.	Gas			Other fuel	Electricity purchased		Steam purchased	Total	Electricity generated		No.
	Liquefied petroleum	Manufactured	Natural		For power and light	For other purposes			For own use	For sale	
	code	Imp. gal.	Mcf.	\$	kwh.	pound	\$	kwh.			
555	1,700	—	—	84	815,049 11,715	—	—	108,452	14,237,470 —	7,615,520 113,790	1
13,911	1,672	—	—	—	—	—	—	—	—	—	2
5,086	5,158	—	1,029,269	91,808	907,097,248 5,957,395	10,723,386 35,063	—	7,360,085	35,370,373 —	1,359,220 41,797	3
66,894	3,361	—	124,744	—	—	—	—	—	—	—	4
6	77,340	—	88,640	—	665,530,402	—	55,029,150	—	57,656,746	819,000	5
45	24,340	—	3,645	48,171	4,513,871	—	44,021	5,932,106	—	65,038	6
9	8,524	—	—	—	21,039,161	—	—	—	236,380	—	7
142	577	—	—	49,554	167,994	—	—	295,788	—	—	8
13	21,928	—	—	—	127,676,651	18,330,086	—	—	164,522,936	61,500	9
85	7,439	—	—	—	1,260,190	55,306	—	2,446,827	—	625	10
4	4,675	—	375,975	—	601,929,889	—	—	—	60,107,900	2,626,000	11
21	1,500	—	174,386	—	3,306,501	—	—	4,636,241	—	58,563	12
5,084	70,009	—	—	—	530,756,666	—	—	—	92,411,120	13,838,827	13
11,241	22,080	—	—	—	4,207,088	—	—	8,331,530	—	193,373	14
4	92,178	—	—	—	386,169,109	—	317,462,700	—	90,071,375	2,600,000	15
27	12,755	—	—	—	2,633,312	—	401,284	5,856,827	—	56,761	16
10,744	282,512	—	1,493,884	189,617	3,241,014,175	29,053,472	372,491,850	—	514,914,302	28,953,067	17
92,376	75,984	—	302,775	—	22,058,066	90,369	445,845	34,967,856	—	529,947	18
4,377	30,023	—	275,154	—	432,291,260	—	—	—	11,478,500	—	19
64,561	15,134	—	151,536	194	3,237,144	—	—	6,666,383	—	—	20
10	1,990	—	—	—	8,801,514	—	—	—	—	—	21
85	548	—	—	—	92,830	—	—	224,025	—	—	22
—	—	—	—	—	8,204,440	—	—	312,798	—	—	23
—	—	—	—	—	152,952	—	—	—	—	—	24
—	—	—	—	—	129,515	—	—	9,623	—	—	25
—	—	—	—	—	2,237	—	—	—	—	—	26
15	25,628	—	143,804	—	5,579,385	—	—	—	—	—	27
150	4,905	—	95,919	—	94,563	—	—	303,976	—	—	28
—	2,780	—	737,482	—	26,028,920	—	—	—	7,992,547	—	29
—	1,112	—	147,983	—	249,738	—	—	1,153,724	—	—	30
95	100	—	—	—	1,374,160	—	—	40,993	—	—	31
200	66	—	—	—	32,854	—	—	—	—	—	32
4	2,062	—	1,303,659	—	53,866,746	—	—	—	5,801,634	62,325	33
50	848	—	362,778	—	619,593	—	—	1,768,707	—	1,376	34
4,436	62,583	—	2,460,099	194	536,275,940	—	—	—	25,272,681	62,325	35
63,046	22,613	—	758,216	—	4,481,916	—	—	10,480,229	—	1,376	36
2,589	15,102	—	6,279	—	188,556,900	14,033,217	—	—	1,443,142	—	37
20,741	7,768	—	548	—	2,890,565	218,434	—	4,062,543	—	—	38
—	473,850	—	1,207,132	—	123,368,150	—	—	—	1,317,436	—	39
—	30,123	—	129,423	—	3,319,008	—	—	6,160,125	—	—	40
—	1,073,962	—	10,630,991	—	31,415,116	—	496,269,477	—	34,384,209	—	41
—	43,266	—	1,159,913	—	534,434	—	76,871	1,869,994	—	—	42
2,599	1,571,914	—	11,844,402	—	343,340,166	14,033,217	496,269,477	—	—	—	43
20,741	131,157	—	1,289,884	—	6,744,027	218,434	76,871	12,092,662	34,144,787	—	44
52	102,166	—	3,550	—	25,928,971	—	—	—	534,660	—	45
300	18,934	—	355	—	590,868	—	—	3,110,456	—	—	46
310	6,523	—	1,726	—	90,046,852	—	—	—	2,090,050	—	47
2,477	1,303	—	854	—	1,368,383	—	—	3,028,969	—	—	48
362	108,689	—	5,276	—	115,975,823	—	—	—	—	—	49
2,777	20,237	—	1,209	—	1,959,251	—	—	6,139,425	2,624,710	—	50
18,161	2,025,698	—	15,803,661	188,811	4,236,606,104	43,086,689	868,761,689	63,680,172	579,956,480	29,015,392	51
150,940	249,991	—	2,352,084	—	35,243,260	308,803	522,716	—	—	331,323	52
1,127	185,030	—	10,455,801	—	2,224,154,681	3,164,908,924	—	—	12,850,676,903	35,672,500	53
45,364	43,696	—	3,171,362	20,572	10,654,718	11,143,982	—	49,000,322	—	237,734	54
13,515	22,131	9,000	5,104,670	—	69,032,467	—	—	—	46,740	—	55
115,128	8,030	8,292	1,664,120	8,236	923,859	—	—	5,610,938	—	—	56
—	24,405	—	15,288,784	—	706,801,918	—	—	16,262,241	1,430,600	—	57
—	6,663	—	4,299,138	—	4,742,313	—	—	—	—	—	58
9,786	16,766	—	297,696	8,170	28,104,964	—	—	2,238,931	—	—	59
66,151	2,882	—	108,443	—	279,023	—	—	—	—	—	60
24,428	248,332	9,000	31,146,931	36,978	3,028,094,030	3,164,908,924	—	12,112,432	4,243	35,672,500	61
226,643	61,271	8,292	9,243,063	—	16,599,913	11,143,982	—	—	—	237,734	62



MINERAL STATISTICS

TABLE 34. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and Industries, 1962

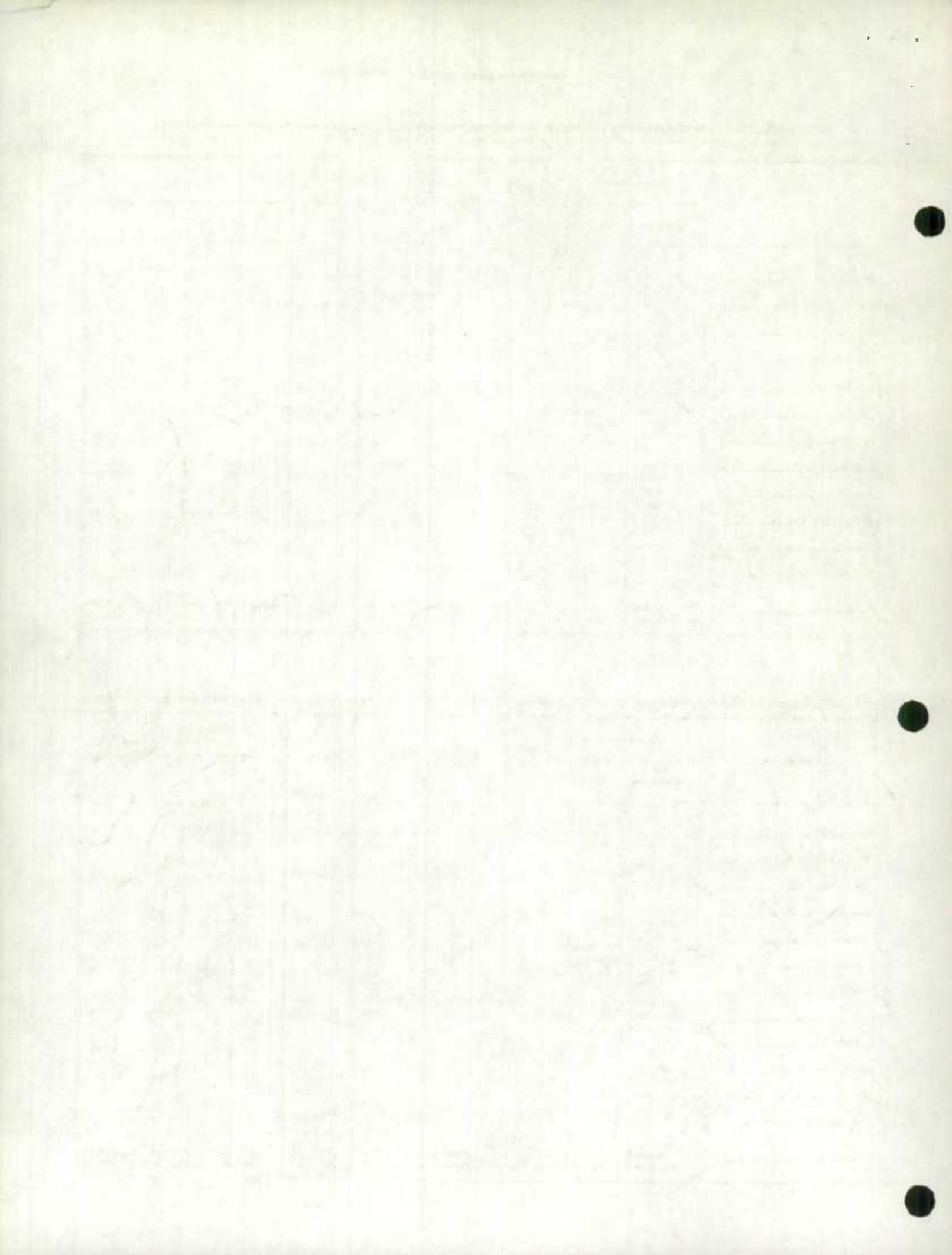
No.	Industry	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Kerosene	Fuel oil
		Canadian	Imported							
tons										
1	Metal mining:									
2	Placer gold	23	—	—	—	—	—	68,644	705	199,294
3		\$ 945	—	—	—	—	—	20,509	643	61,935
4	Gold quartz	1,930	7,385	1	377	—	12	395,427	6,026	3,760,906
5		\$ 37,407	122,568	28	7,203	—	417	153,722	2,109	763,361
6	Copper-gold-silver	974	812	48	—	—	44	622,773	6,469	7,268,337
7		\$ 15,215	15,452	687	—	—	1,058	246,637	2,069	1,354,770
8	Silver-cobalt	—	710	—	8	—	—	37,551	—	210,667
9		\$ —	20,172	—	258	—	—	15,942	—	42,710
10	Silver-lead-zinc	8,999	2,015	13,615	8	—	—	264,435	1,890	4,410,137
11		\$ 224,202	34,405	130,810	288	—	—	108,066	592	859,984
12	Nickel-copper	6,852	353	1,630	—	—	—	198,375	6,254	5,726,018
13		\$ 94,734	6,655	13,324	—	—	—	89,882	1,860	744,082
14	Iron	322	22	—	1	—	4,943	1,662,842	33,778	33,175,596
15		\$ 5,836	660	—	18	—	58,692	517,974	9,351	4,382,064
16	Miscellaneous metals	21	72,418	—	—	—	—	315,882	1,284	7,787,513
17		\$ 228	1,069,124	—	—	—	—	127,464	408	1,421,895
18	Totals	19,121	83,715	15,294	394	—	4,899	3,565,929	56,406	62,538,468
19		\$ 378,567	1,269,036	144,849	7,767	—	60,167	1,280,196	17,032	9,630,821
Non-metal mining:										
20	Asbestos	4,487	—	—	110	—	—	503,055	4,293	22,009,338
21		\$ 62,568	—	—	1,863	—	—	172,533	1,499	3,285,823
22	Feldspar, quartz, nepheline	—	—	—	1	—	—	102,937	900	604,273
23		\$ —	—	—	36	—	—	36,628	185	96,826
24	Gypsum	—	—	—	—	—	—	45,561	85	1,093,810
25		\$ —	—	—	—	—	—	18,325	19	169,824
26	Mica	108	—	—	—	—	—	2,152	—	250
27		\$ 1,698	—	—	—	—	—	968	—	100
28	Peat	18	—	—	—	—	—	278,767	—	352,963
29		\$ 439	—	—	—	—	—	93,401	—	43,205
30	Salt	10,072	19,363	—	—	—	—	51,327	327	5,535,541
31		\$ 104,623	199,388	—	—	—	—	33,283	84	456,055
32	Talc, soapstone	—	—	—	—	—	—	12,202	—	21,648
33		\$ —	—	—	—	—	—	4,059	—	4,185
34	Miscellaneous	716	342	—	—	11,900	—	404,122	2,349	7,016,907
35		\$ 11,295	6,395	—	—	44,625	—	132,980	788	724,875
36	Totals	15,401	19,705	—	111	11,900	—	1,400,123	7,954	36,634,730
37		\$ 180,623	205,783	—	1,899	44,625	—	492,177	2,575	4,780,893
Mineral fuels:										
38	Coal	31,501	—	803	—	9,932	143	742,115	14,188	1,520,535
39		\$ 267,528	—	3,060	—	14,062	3,211	227,739	5,177	334,612
40	Petroleum, natural gas	—	—	—	—	—	1	6,454,100	2,008	1,402,897
41		\$ —	—	—	—	—	30	2,482,329	643	270,006
42	Natural gas processing	—	—	—	—	—	—	165,094	1,260	17,314
43		\$ —	—	—	—	—	—	57,971	351	3,388
44	Totals	31,501	—	803	—	9,932	144	7,361,309	17,436	2,940,746
45		\$ 267,528	—	3,060	—	14,062	3,241	2,768,039	6,171	608,006
Structural materials:										
46	Sand and gravel	164	16	—	7	—	—	6,307,035	1,619	4,131,541
47		\$ 2,684	274	—	192	—	—	1,876,296	441	637,043
48	Stone	987	28,841	147	—	—	11	2,135,379	914	3,611,271
49		\$ 17,561	336,624	1,862	—	—	204	711,155	256	858,841
50	Totals	1,151	28,857	147	7	—	—	11	8,442,414	2,533
51		\$ 20,243	336,898	1,862	192	—	204	2,587,451	697	1,693,884
52	Totals, mineral industries	67,174	132,277	16,244	512	21,832	5,154	20,769,775	84,349	109,856,756
53		\$ 846,963	1,811,717	149,771	9,858	58,687	63,612	7,127,863	26,475	16,715,604
Manufacturing group:										
54	Smelting and refining	478,165	183,638	6,527	93,342	—	238,607	928,942	—	56,911,455
55		\$ 6,112,379	2,275,269	51,895	1,263,074	—	5,244,433	261,215	—	4,982,530
56	Clay products	12,471	50,416	—	4,592	819	254	730,285	2,054	12,195,239
57		\$ 181,781	800,618	—	90,029	6,164	5,468	243,400	587	1,081,926
58	Cement	460,352	173,240	—	—	—	—	227,175	21,972	36,385,739
59		\$ 4,316,508	1,625,986	—	—	—	—	60,851	5,224	2,585,954
60	Lime	2,574	96,251	4,031	—	8,591	8	212,836	—	6,301,896
61		\$ 32,810	1,236,222	34,260	—	54,189	113	60,529	—	506,690
62	Totals, manufacturing group	953,562	503,545	10,558	97,934	9,410	238,869	2,099,238	24,026	113,794,279
63		\$ 10,643,478	6,138,095	86,155	1,353,103	60,353	5,250,014	623,995	5,811	9,157,160

$$\begin{array}{r} 219 \\ \hline 418 \\ 637 \end{array}$$

$$\begin{array}{r} 665 \\ \hline 220 \\ 885 \end{array}$$

TABLE 34. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and Industries, 1962

Ind.	Gas			Other fuel	Electricity purchased		Steam purchased	Total	Electricity generated		No.	
	Liquefied petroleum	Manufactured	Natural		For power and light	For other purposes			For own use	For sale		
	Imp. gal.	Mcf.	\$		kwh.	pounds			\$	kwh.		
617	9,337	—	—	—	—	—	—	101,676	14,696,772	7,466,938	1	
14,653	2,991	—	—	—	—	—	—	—	... ...	116,962	2	
5,139	3,721	—	226,606	91,554	861,712,553 5,489,999	30,768,689 106,918	—	—	35,417,495	1,818,518 43,461	3 4	
68,230	2,718	—	135,678	—	—	—	—	6,981,932	—	—		
—	89,524	—	55,442	—	741,862,495	—	63,475,350	—	90,588,610	798,400 88,516	5 6	
16	23,501	—	22,613	51,330	5,088,266	—	51,575	6,873,189	—	—		
—	1,960	—	—	—	21,382,059	—	—	—	385,000	— — 7		
—	881	—	—	44,253	181,125	—	—	305,341	— ...	— —	8	
—	21,661	—	—	—	171,098,723	20,130,207	—	—	168,100,797	194,655	9	
—	7,674	—	—	—	1,364,716	59,337	—	2,790,474	— ...	3,751	10	
15	575,418	—	398,692	—	591,576,385	2,666,400	—	—	51,857,000	2,826,000	11	
144	125,968	—	184,869	—	3,212,063	5,333	—	4,478,914	— ...	65,019	12	
5,983	48,769	—	—	—	594,166,313	—	—	—	117,429,300	16,186,191	13	
83,331	14,665	—	—	—	5,761,509	—	—	10,836,920	— ...	242,816	14	
—	68,103	—	—	—	337,460,151	—	1,178,570	—	88,711,400	2,338,203	15	
—	16,622	—	—	—	2,352,236	—	1,191	4,989,168	— ...	15,167	16	
11,798	840,613	—	680,740	—	3,319,258,680	53,565,296	64,653,920	—	367,186,473	31,431,973	17	
169,474	195,140	—	343,160	167,137	23,449,914	171,588	52,766	37,357,614	— ...	575,714	18	
3,888	44,437	—	247,915	—	464,581,995	—	—	—	14,797,975	—	19	
58,970	17,209	—	139,450	—	3,444,457	—	—	7,184,372	— ...	— 20		
6	2,230	—	—	—	10,466,371	—	—	—	— ...	— 21		
60	590	—	—	—	127,190	—	—	261,515	— ...	— 22		
—	—	—	—	—	9,010,747	—	—	—	— ...	— 23		
—	—	—	—	—	165,653	—	—	353,821	— ...	— 24		
13	—	—	—	—	126,280	—	—	—	— ...	— 25		
102	—	—	—	—	2,604	—	—	5,532	— ...	— 26		
38	35,840	—	203,187	—	6,908,775	—	—	—	— ...	— 27		
386	6,462	—	108,062	—	111,204	—	—	363,159	— ...	— 28		
—	2,907	—	781,377	—	30,730,781	—	—	—	10,987,780	— ...	29	
—	1,218	—	98,183	—	290,333	—	—	1,183,167	— ...	— 30		
60	60	—	—	—	1,524,800	—	—	—	— ...	— 31		
240	54	—	—	—	34,111	—	—	42,649	— ...	— 32		
4	410,199	—	792,733	—	49,252,279	—	—	—	6,431,933	72,322	33	
32	114,936	—	222,059	—	616,035	—	—	1,874,020	— ...	1,610	34	
4,116	495,763	—	2,025,212	—	572,602,028	—	—	—	32,217,688	72,322	35	
55,840	140,469	—	567,754	—	4,791,587	—	—	11,218,215	— ...	1,610	36	
1,617	2,574	—	—	—	178,536,458	18,143,622	—	—	1,089,592	—	37	
39,366	569	—	—	—	2,656,091	266,203	—	3,817,918	— ...	— 38		
—	611,265	—	1,241,930	—	152,695,423	—	—	—	1,100,000	— ...	39	
—	177,478	—	57,706	—	3,871,644	—	—	6,839,836	— ...	— 40		
—	148,349	—	19,525,533	—	59,196,970	—	554,319,387	—	32,565,725	— ...	41	
—	13,533	—	1,944,001	—	765,400	—	82,395	2,872,439	— ...	— 42		
1,617	771,988	—	20,767,463	—	390,628,831	18,143,622	554,319,387	—	34,755,317	—	43	
39,366	137,250	—	2,041,707	—	7,293,135	266,203	82,395	13,530,193	— ...	— 44		
14	14,149	—	254,453	—	29,421,707	—	—	—	363,377	—	45	
144	3,588	—	68,417	—	647,010	—	—	3,436,089	— ...	— 46		
178	18,599	—	9,015	—	100,783,220	—	—	—	1,496,951	—	47	
1,559	4,399	—	4,297	—	1,356,228	—	—	3,292,986	— ...	— 48		
192	27,748	—	263,468	—	130,204,927	—	—	—	1,860,328	—	49	
1,703	7,987	—	72,714	—	2,003,238	—	—	6,729,075	— ...	— 50		
17,721	2,136,312	—	23,736,663	187,137	4,412,694,486	71,708,918	618,973,307	—	636,019,806	31,504,293	51	
270,393	480,876	—	3,025,335	—	37,537,874	437,791	135,161	68,885,117	— ...	577,324	52	
1,688	475,892	—	13,117,311	—	5,046,273,802	—	—	—	12,687,642,152	2,832,038,541	53	
60,733	105,665	—	4,443,010	18,998	20,683,574	—	—	45,702,893	— ...	7,182,528	54	
11,004	72,449	—	4,751,586	—	73,820,649	—	—	—	50,000	—	55	
85,377	16,446	—	1,935,583	5,614	952,513	—	—	5,405,506	— ...	— 56		
—	27,662	—	14,625,108	—	784,316,014	—	—	—	1,411,500	— ...	57	
—	7,813	—	4,061,321	—	4,855,087	—	—	17,718,744	— ...	— 58		
9,709	3,896	—	397,478	10,149	34,329,326	—	—	—	— ...	— 59		
65,018	669	—	165,961	—	338,540	—	—	2,505,150	— ...	— 60		
22,401	588,099	—	32,891,483	—	5,838,739,791	—	—	—	12,689,103,652	2,832,038,341	61	
211,188	130,393	—	10,603,875	34,759	27,029,714	—	—	71,332,293	— ...	7,182,528	62	



MINERAL STATISTICS

TABLE 35. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and by Provinces, 1961
Excluding the manufacturing group

No.	Provinces	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Kerosene	Fuel oil
		Canadian	Imported							
		tons	Imp. gal.							
1	Newfoundland	814	2,465	—	—	—	—	528,876	2,383	5,481,259
2	\$	13,576	62,008	—	—	—	—	209,871	782	1,091,691
3	Prince Edward Island	—	—	—	—	—	—	2,195	—	4,185
4	\$	—	—	—	—	—	—	828	—	1,021
5	Nova Scotia	40,193	—	—	—	—	117	304,203	1,500	1,495,523
6	\$	415,984	—	—	—	—	2,563	104,650	376	261,180
7	New Brunswick	2,603	—	—	—	—	—	342,695	20,100	1,070,185
8	\$	20,638	—	—	—	—	—	117,487	5,671	203,629
9	Quebec	7,407	9,627	20	14,717	—	2	3,114,364	54,737	43,308,440
10	\$	108,407	168,472	533	244,397	—	55	1,104,114	22,479	5,789,199
11	Ontario	1,109	144,595	19	1,358	—	6,524	4,469,730	42,663	19,661,657
12	\$	19,192	1,877,429	606	24,833	—	72,141	1,517,074	9,431	2,851,712
13	Manitoba	91	—	828	—	1	37	640,651	2,200	4,308,059
14	\$	1,567	—	8,088	—	9	886	248,732	730	498,461
15	Saskatchewan	14,350	—	11	—	12,769	—	1,545,487	37,406	7,111,569
16	\$	54,031	—	157	—	18,554	—	598,452	7,145	1,270,805
17	Alberta	9,866	—	1,485	—	—	—	5,224,893	2,797	1,723,124
18	\$	69,190	—	5,780	—	—	—	1,992,384	1,039	339,800
19	British Columbia	370	—	13,339	7	381	1	1,095,830	20,171	7,854,697
20	\$	4,062	—	125,191	640	6,177	30	394,791	4,737	1,647,648
21	Yukon	7,499	—	—	—	—	—	39,943	310	241,159
22	\$	187,038	—	—	—	—	—	18,260	282	67,24
23	Northwest Territories	—	—	—	—	—	—	143,610	660	2,805,756
24	\$	—	—	—	—	—	—	63,336	287	674,775
25	Canada	84,302	156,687	15,702	16,082	13,151	6,681	17,452,477	184,927	93,045,696
26	\$	893,685	2,107,909	140,355	269,870	24,740	73,675	6,369,979	52,939	14,697,395

TABLE 36. Fuel and Electricity Used in the Mineral (Manufacturing Group Only) Industry, by Kinds and by Provinces, 1961

No.	Provinces	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Kerosene	Fuel oil
		Canadian	Imported							
		tons	Imp. gal.							
1	Newfoundland	—	—	—	—	—	—	5,916	—	3,177,658
2	\$	—	—	—	—	—	—	2,755	—	213,588
3	Prince Edward Island	—	—	—	—	—	—	—	—	—
4	\$	—	—	—	—	—	—	—	—	—
5	Nova Scotia	7,922	—	—	—	—	—	6,100	—	1,750,020
6	\$	115,503	—	—	—	—	—	2,135	—	136,992
7	New Brunswick	31,725	—	—	—	—	—	16,139	1,305	1,339,676
8	\$	368,352	—	—	—	—	—	6,101	348	114,628
9	Quebec	264,399	59,326	—	152,120	—	1,319	500,927	3,806	58,466,830
10	\$	3,087,794	822,269	—	1,907,270	—	27,611	153,395	989	4,385,909
11	Ontario	274,471	718,280	—	2,198	—	218,435	938,931	34,211	17,578,253
12	\$	2,964,012	8,460,614	—	41,769	—	4,842,899	304,659	9,552	1,853,002
13	Manitoba	28,351	4,145	1,933	—	7,388	589	88,048	2,052	5,332,213
14	\$	409,446	70,291	16,817	—	45,846	8,789	31,676	619	634,382
15	Saskatchewan	109,047	—	—	—	—	—	11,264	814	383,466
16	\$	1,548,471	—	—	—	—	—	3,624	248	43,068
17	Alberta	—	—	3,155	—	—	—	118,865	3,807	191,019
18	\$	—	—	27,600	—	—	—	30,310	849	38,425
19	British Columbia	114,279	—	—	—	—	62,615	492,404	1,550	7,450,501
20	\$	1,040,409	—	—	—	—	1,169,020	124,903	566	724,565
21	Yukon	—	—	—	—	—	—	—	—	—
22	\$	—	—	—	—	—	—	—	—	—
23	Northwest Territories	—	—	—	—	—	—	—	—	—
24	\$	—	—	—	—	—	—	—	—	—
25	Canada	830,194	781,751	3,088	154,316	7,388	282,958	2,178,545	47,545	93,669,636
26	\$	9,533,987	9,353,174	44,417	1,949,039	45,846	6,048,319	659,558	13,191	8,144,739

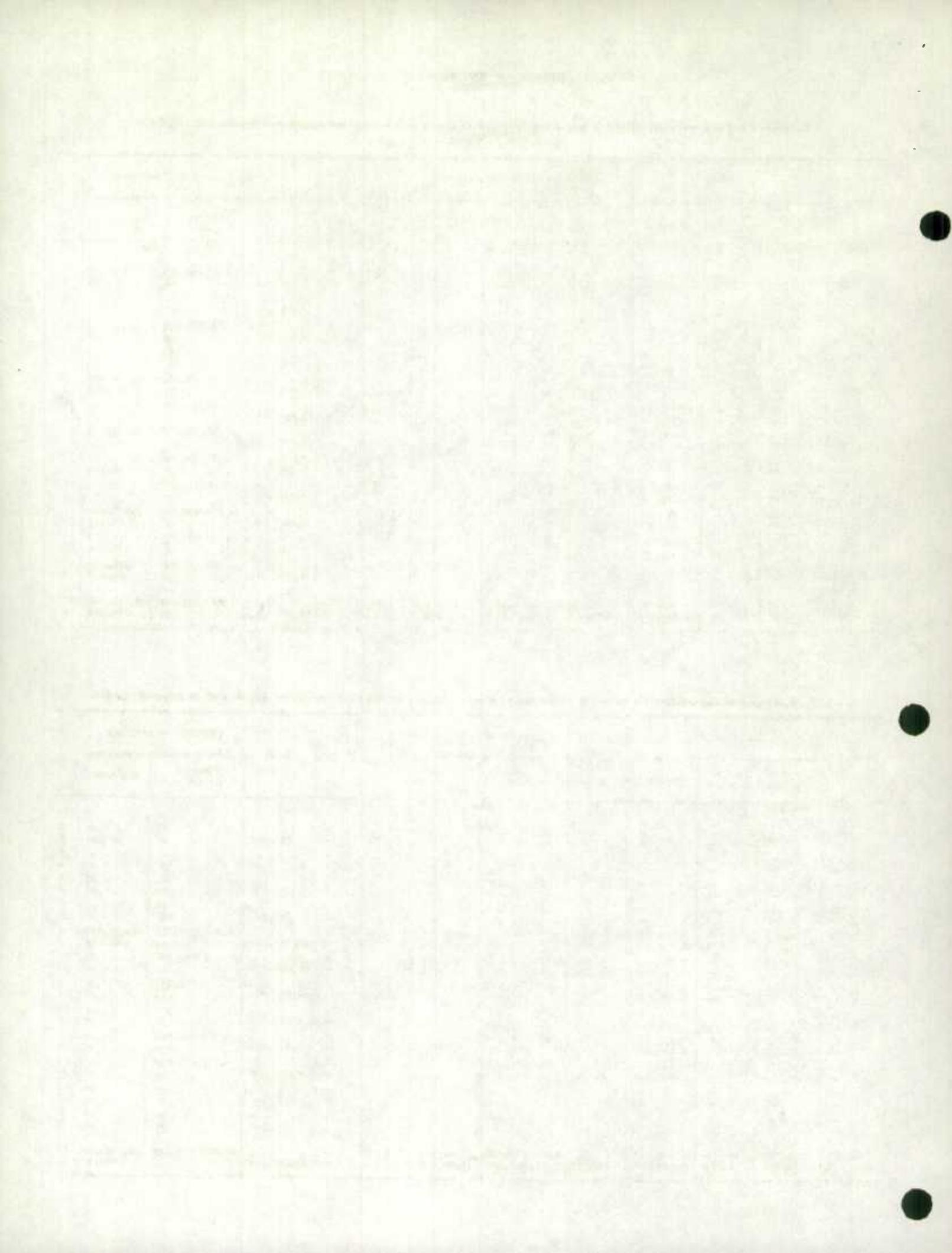
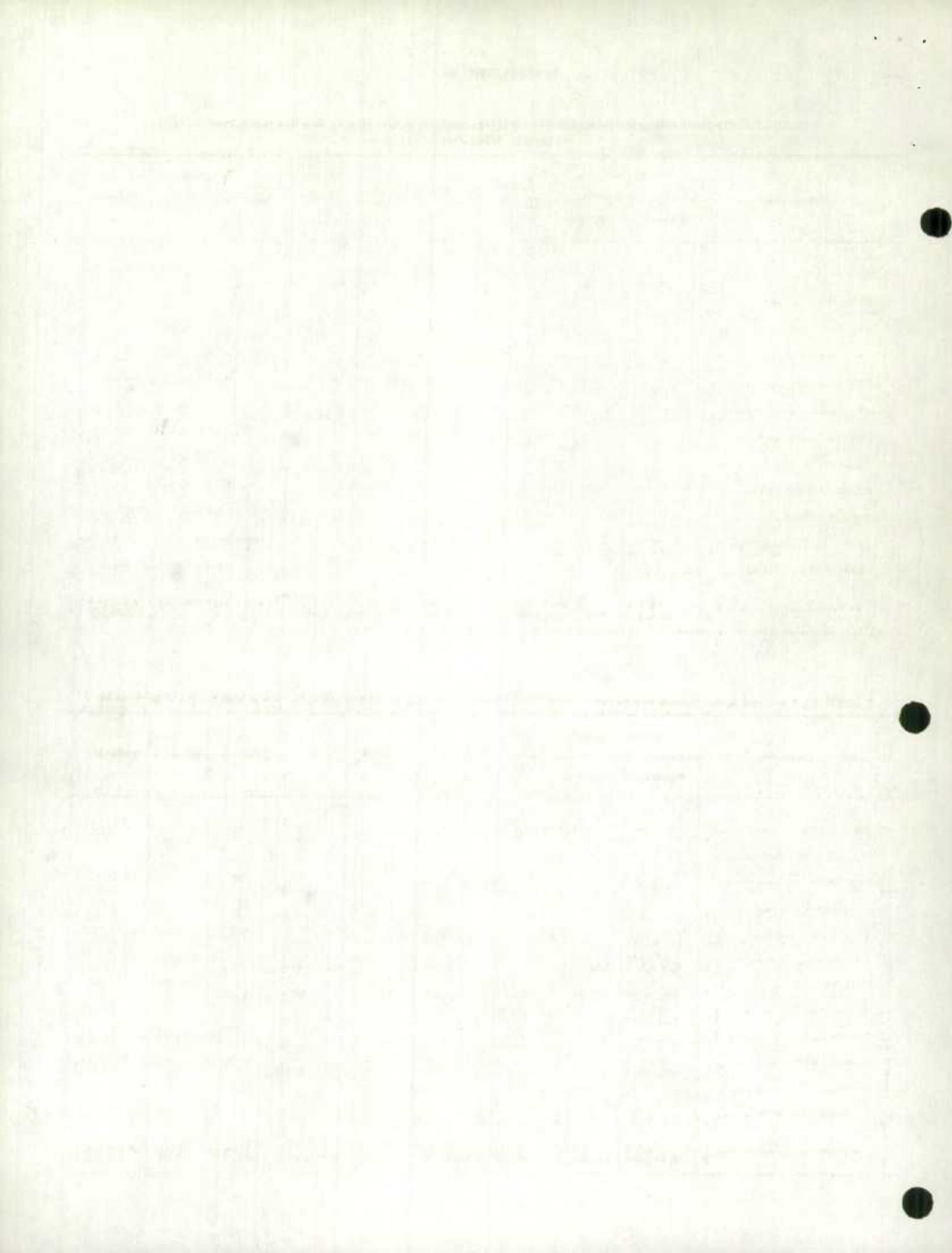


TABLE 35. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and By Provinces, 1961
Excluding the manufacturing group

Wood	Gas			Other fuel	Electricity purchased		Steam purchased	Total	Electricity generated		No.
	Liquefied petroleum	Manufactured	Natural		For power and light	For other purposes			For own use	For sale	
	cords	Imp. gal.	Mcf.		\$	kwh.			\$	kwh.	
—	20,342	—	—	—	93,468,778	—	55,029,150	39,941,022	62,325	—	1
—	10,732	—	—	2,002	1,226,376	—	44,021	2,661,119	—	1,376	2
—	—	—	—	—	—	—	—	—	—	—	3
—	—	—	—	—	—	—	—	1,849	—	—	4
2,385	370	—	—	—	148,454,167	294,595	—	—	4,981,200	—	5
19,035	176	—	—	—	2,296,478	4,642	—	3,105,054	—	—	6
—	12,840	—	3,073	—	24,535,260	—	—	—	1,200	—	7
—	5,863	—	2,799	—	523,675	—	—	882,962	—	—	8
447	75,792	—	—	—	1,317,820,186	—	—	—	92,256,247	13,838,827	9
3,438	23,277	—	—	80,469	10,112,245	—	—	17,657,085	—	193,373	10
8,458	196,503	—	1,727,682	107,256	2,041,153,230	11,558,512	2,207,700	20,482,960	11,052,305	—	11
52,999	48,475	—	491,250	—	13,377,326	30,448	2,788	—	—	—	12
1,017	79,924	—	1,726	—	174,868,642	3,015,530	—	—	51,103,000	2,636,000	13
11,727	16,363	—	854	—	848,027	4,523	—	1,639,657	—	56,363	14
—	376,288	—	2,473,917	—	115,229,224	4,073,800	315,255,000	—	88,105,976	2,600,000	15
—	61,669	—	480,959	—	1,281,211	77,701	399,036	4,249,740	—	56,761	16
213	1,183,138	—	11,242,183	—	139,765,105	400,217	496,269,477	7,082,834	8,514,239	—	17
1,331	57,431	—	1,264,295	—	3,260,422	13,991	76,871	—	—	—	18
4,314	73,605	—	355,080	—	120,929,120	9,668,436	—	3,828,078	239,920,915	1,395,485	19
66,334	23,183	—	111,927	—	1,318,433	124,925	—	—	—	90,412	20
558	86	—	—	—	15,522,996	12,089,599	—	—	14,472,533	7,618,520	21
13,921	52	—	—	84	395,175	43,638	—	725,724	—	113,790	22
567	—	—	—	—	44,859,396	1,986,000	—	—	29,607,843	864,235	23
11,885	—	—	—	—	603,892	8,935	—	1,363,110	—	17,048	24
18,161	2,025,698	—	15,803,661	189,811	4,236,606,104	43,086,689	868,761,327	63,680,172	579,956,480	29,015,392	25
180,940	249,991	—	2,352,084	—	35,243,260	308,803	522,716	—	—	531,323	26

TABLE 36. Fuel and Electricity Used in the Mineral (Manufacturing Group Only) Industry, by Kinds and by Provinces, 1961

Wood	Gas			Other fuel	Electricity purchased		Steam purchased	Total	Electricity generated		No.
	Liquefied petroleum	Manufactured	Natural		For power and light	For other purposes			For own use	For sale	
	cords	Imp. gal.	Mcf.		\$	kwh.			\$	kwh.	
—	—	—	—	—	13,612,811	—	—	—	—	—	1
—	—	—	—	—	83,373	—	—	299,716	—	—	2
—	—	—	—	—	—	—	—	—	—	—	3
—	—	—	—	—	—	—	—	—	—	—	4
—	—	—	—	—	3,312,120	—	—	297,458	—	—	5
—	—	—	—	—	42,828	—	—	—	—	—	6
3,263	600	—	—	—	21,268,243	—	—	761,945	—	—	7
24,630	240	—	—	—	247,446	—	—	—	—	—	8
5,132	54,371	9,000	5,983,299	13,436	566,941,049	3,004,398,993	—	—	8,936,933,421	35,672,500	9
76,061	14,140	8,292	1,634,388	—	2,984,326	10,267,089	—	25,582,989	—	237,734	10
13,102	43,583	—	9,481,459	15,372	1,338,077,655	160,509,931	—	—	7,586,600	—	11
100,523	16,654	—	3,996,164	—	7,482,501	876,893	—	30,964,620	—	—	12
1,902	216	—	2,725,524	—	739,525,656	—	—	—	430,600	—	13
13,994	42	—	959,233	—	3,917,929	—	—	6,109,064	—	—	14
191	—	—	1,328,446	—	176,562,763	—	—	—	—	—	15
2,149	—	—	363,333	—	609,388	—	—	2,570,281	—	—	16
—	19,583	—	8,266,605	—	117,789,229	—	—	—	48,411,000	—	17
—	2,830	—	1,170,128	—	759,816	—	—	2,029,958	—	—	18
831	129,479	—	3,361,418	8,170	51,004,504	—	—	—	3,334,792,622	—	19
9,260	27,365	—	919,817	—	472,306	—	—	4,496,401	—	—	20
—	—	—	—	—	—	—	—	—	—	—	21
—	—	—	—	—	—	—	—	—	—	—	22
—	—	—	—	—	—	—	—	—	—	—	23
—	—	—	—	—	—	—	—	—	—	—	24
34,428	248,332	9,000	31,146,951	36,978	3,028,094,030	3,164,908,924	—	73,112,432	12,852,134,243	35,672,500	25
136,643	61,271	8,292	9,243,063	—	16,599,913	11,143,982	—	—	—	237,734	26



MINERAL STATISTICS

TABLE 37. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and by Provinces, 1962
Excluding the manufacturing group

No. Provinces	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Kerosene	Fuel oil
	Canadian	Imported							
			tons						
1 Newfoundland	2,182	—	—	—	—	—	448,855	10,909	9,576,441
2	\$ 51,843	—	—	—	—	—	209,011	3,461	1,310,097
3 Prince Edward Island	—	—	—	—	—	—	21,885	—	110,147
4	\$ —	—	—	—	—	—	8,000	—	40,332
5 Nova Scotia	30,572	—	—	—	—	143	327,716	1,425	2,174,813
6	\$ 312,984	—	—	—	—	3,211	119,856	356	344,537
7 New Brunswick	3,733	—	—	5	—	—	368,847	1,080	1,095,633
8	\$ 27,199	—	—	120	—	—	128,523	292	190,721
9 Quebec	7,461	4,690	—	112	—	13	3,473,214	19,885	51,420,002
10	\$ 115,734	85,175	—	1,944	—	305	1,210,430	5,657	7,128,997
11 Ontario	7,699	127,587	59	388	—	4,965	6,032,042	16,474	21,671,034
12	\$ 110,151	1,726,542	833	7,465	—	59,251	1,755,587	5,385	3,089,252
13 Manitoba	12	—	1,766	—	—	32	733,548	2,300	4,914,972
14	\$ 173	—	15,040	—	—	768	281,546	947	583,243
15 Saskatchewan	21	—	—	—	21,832	—	1,713,986	1,293	6,111,490
16	\$ 228	—	—	—	58,687	—	641,501	510	1,093,420
17 Alberta	7,463	—	803	—	—	—	5,571,080	12,835	1,394,376
18	\$ 40,188	—	3,060	—	—	—	2,064,981	4,801	247,438
19 British Columbia	1,043	—	13,615	7	—	1	1,602,181	17,323	8,991,093
20	\$ 13,393	—	130,810	329	—	77	554,089	4,330	1,994,654
21 Yukon	6,988	—	—	—	—	—	310,106	705	479,695
22	\$ 175,070	—	—	—	—	—	74,529	643	173,032
23 Northwest Territories	—	—	1	—	—	—	166,315	120	1,917,060
24	\$ —	—	28	—	—	—	78,910	93	519,881
25 Canada	67,174	132,277	16,244	512	21,832	5,154	20,769,775	84,349	109,856,756
26	\$ 846,963	1,811,717	149,771	9,858	58,687	63,612	7,127,863	26,475	16,713,604

TABLE 38. Fuel and Electricity Used in the Mineral (Manufacturing Group Only) Industry, by Kinds and by Provinces, 1962

No. Provinces	Bituminous coal		Sub-bituminous coal	Anthracite coal	Lignite coal	Coke	Gasoline	Kerosene	Fuel oil
	Canadian	Imported							
			tons						
1 Newfoundland	—	—	—	—	—	—	6,563	—	3,149,016
2	\$ —	—	—	—	—	—	3,148	—	221,747
3 Prince Edward Island	—	—	—	—	—	—	—	—	—
4	\$ —	—	—	—	—	—	—	—	—
5 Nova Scotia	11,735	—	—	—	—	—	6,200	—	1,453,663
6	\$ 170,756	—	—	—	—	—	2,264	—	111,711
7 New Brunswick	35,022	—	—	—	—	—	17,979	180	1,450,467
8	\$ 399,799	—	—	—	—	—	7,015	46	121,834
9 Quebec	365,636	35,875	—	96,529	—	684	590,266	3,990	61,861,115
10	\$ 3,950,461	556,728	—	1,324,970	—	16,018	179,528	941	4,639,360
11 Ontario	289,977	463,786	—	1,405	145	178,543	877,001	7,084	33,262,771
12	\$ 3,144,268	5,513,785	—	28,133	2,118	4,146,445	273,689	1,648	2,659,870
13 Manitoba	29,840	3,884	6,527	—	9,265	8	75,821	903	5,286,339
14	\$ 426,413	67,582	51,895	—	58,235	113	27,224	257	657,773
15 Saskatchewan	108,308	—	—	—	—	—	10,712	3,805	477,197
16	\$ 1,547,722	—	—	—	—	—	2,891	1,074	52,323
17 Alberta	—	—	4,031	—	—	—	107,164	7,726	202,357
18	\$ —	—	34,260	—	—	—	26,070	1,746	37,868
19 British Columbia	113,044	—	—	—	—	59,634	407,532	338	6,849,284
20	\$ 1,004,059	—	—	—	—	1,087,438	104,168	99	645,284
21 Yukon	—	—	—	—	—	—	—	—	—
22	\$ —	—	—	—	—	—	—	—	—
23 Northwest Territories	—	—	—	—	—	—	—	—	—
24	\$ —	—	—	—	—	—	—	—	—
25 Canada	913,562	503,551	10,558	97,934	9,410	238,869	2,099,238	24,026	113,794,279
26	\$ 10,643,478	6,134,622	86,153	1,353,103	60,353	5,250,014	625,995	5,811	9,157,160

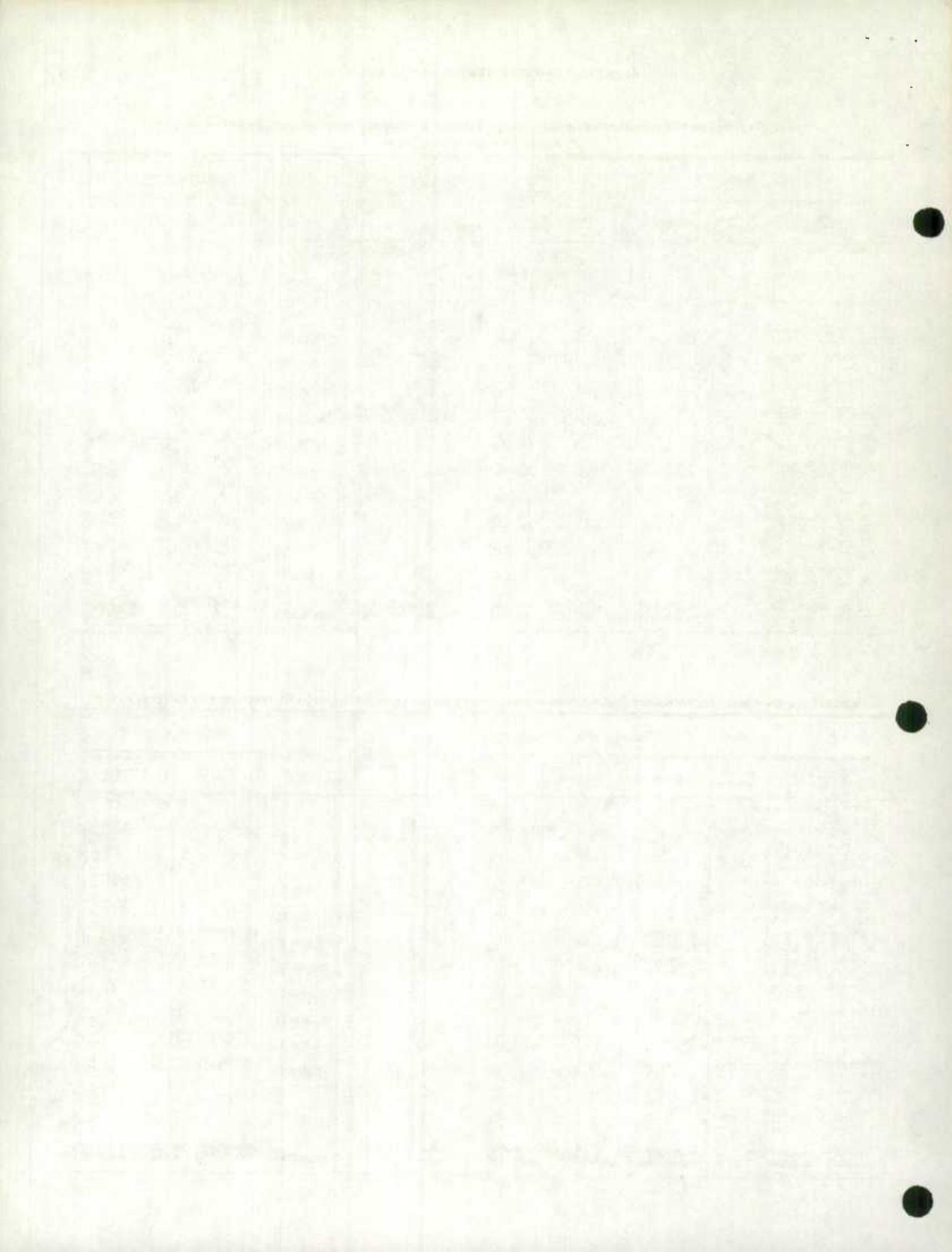
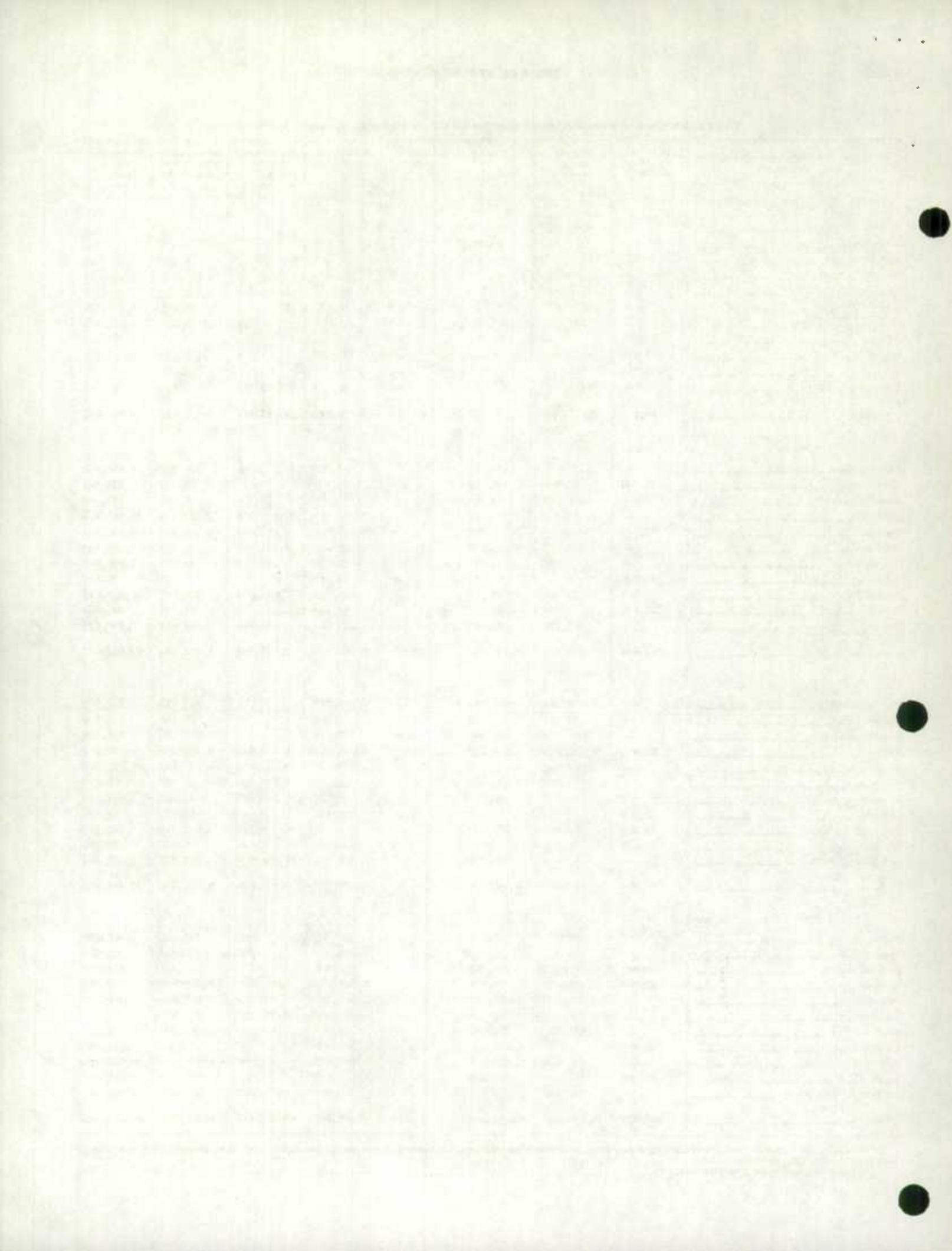


TABLE 37. Fuel and Electricity Used in the Mineral Industry in Canada, by Kinds and By Provinces, 1962
Excluding the manufacturing group

Province	Gas			Other fuel	Electricity purchased		Steam purchased	Total	Electricity generated		No.
	Liquefied petroleum	Manufactured	Natural		For power and light	For other purposes			For own use	For sale	
	Imp. gal.	Mcf.	\$		kwh.	pounds			\$	kwh.	
-	8,775	-	-	-	177,437,350	-	63,475,350	-	120,646,933	16,261,564	1
-	1,490	-	-	-	2,624,165	-	51,575	4,251,642	...	244,448	2
-	-	-	-	-	48,750	-	-	-	-	-	3
-	-	-	-	-	1,170	-	-	50,402	...	-	4
918	-	-	-	-	146,393,375	276,000	-	-	5,017,760	-	5
34,737	-	-	-	-	2,154,168	4,300	-	2,974,159	...	-	6
-	8,107	-	2,339	-	44,936,270	46,961	-	-	175,200	-	7
-	3,086	-	2,339	-	736,807	1,397	-	1,090,484	...	-	8
350	56,354	-	-	-	1,454,383,238	-	-	-	37,599,273	101,655	9
3,200	19,799	-	-	89,712	11,178,752	-	-	19,839,705	...	3,039	10
9,267	85,635	-	970,756	-	1,887,949,103	17,251,229	1,178,570	-	6,275,012	-	11
127,736	30,719	-	542,572	97,250	12,435,019	50,427	1,191	20,039,400	...	-	12
1,456	78,755	-	3,773	-	167,656,325	4,880,800	-	-	51,797,000	2,826,000	13
17,792	14,483	-	2,552	-	799,858	12,202	-	1,728,604	...	65,019	14
-	849,035	-	1,925,103	-	130,966,511	5,240,160	-	-	118,880,120	2,338,200	15
-	190,405	-	338,464	-	1,643,130	87,704	-	4,054,049	...	15,167	16
696	316,609	-	20,153,303	-	180,592,259	2,770,870	554,319,387	-	10,277,752	-	17
4,559	58,122	-	1,966,006	-	3,695,391	36,791	82,395	8,203,732	...	-	18
4,081	157,546	-	681,611	-	163,175,407	9,809,631	-	-	247,234,804	1,469,439	19
59,654	37,703	-	173,402	175	1,612,391	136,011	-	4,717,318	...	117,823	20
617	986	-	-	-	15,910,097	13,794,171	-	-	14,003,308	7,465,938	21
14,653	948	-	-	-	395,469	46,305	-	880,649	...	116,562	22
317	572,500	-	-	-	43,245,801	17,639,096	-	-	24,112,644	1,040,479	23
7,732	124,121	-	-	-	261,554	62,654	-	1,054,973	...	14,860	24
17,721	2,136,312	-	23,736,885	187,137	4,412,694,486	71,708,918	618,973,307	68,885,117	636,019,806	31,504,295	25
270,393	480,876	-	3,025,335	-	37,537,874	437,791	135,161	-	...	577,324	26

TABLE 38. Fuel and Electricity Used in the Mineral (Manufacturing Group Only) Industry, by Kinds and by Provinces, 1962

Province	Gas			Other fuel	Electricity purchased		Steam purchased	Total	Electricity generated		No.
	Liquefied petroleum	Manufactured	Natural		For power and light	For other purposes			For own use	For sale	
	Imp. gal.	Mcf.	\$		kwh.	pounds			\$	kwh.	
-	-	-	-	-	15,076,260	-	-	-	-	-	1
-	-	-	-	-	95,385	-	-	320,280	...	-	2
-	-	-	-	-	-	-	-	-	-	-	3
-	-	-	-	-	3,047,988	-	-	-	-	-	4
-	-	-	-	-	41,930	-	-	-	-	-	5
3,598	926	-	-	-	21,463,790	-	-	-	-	-	6
28,256	463	-	-	-	233,532	-	-	791,035	...	-	7
4,621	194,792	-	5,114,705	-	3,250,004,124	-	-	-	11,524,486,706	2,832,038,541	9
85,590	50,131	-	1,664,460	11,607	13,006,750	-	-	25,496,264	...	7,182,528	10
11,855	60,329	-	12,041,037	-	1,420,391,149	-	-	-	6,671,100	-	11
78,727	20,382	-	5,285,916	12,913	7,970,811	-	-	29,136,705	...	-	12
1,390	2,118	-	2,596,875	-	875,826,911	-	-	-	411,500	-	13
9,500	402	-	917,453	-	3,763,487	-	-	5,980,334	...	-	14
196	17,143	-	1,418,265	-	172,438,242	-	-	-	-	-	15
1,795	3,058	-	380,216	-	597,065	-	-	* 2,586,144	...	-	16
-	6,019	-	9,251,486	-	128,660,411	-	-	-	49,830,000	-	17
-	800	-	1,348,267	-	850,810	-	-	2,299,821	...	-	18
741	298,772	-	2,469,115	-	52,030,916	-	-	-	1,107,704,346	-	19
7,320	55,357	-	1,009,563	10,239	469,944	-	-	4,393,449	...	-	20
-	-	-	-	-	-	-	-	-	-	-	21
-	-	-	-	-	-	-	-	-	-	-	22
-	-	-	-	-	-	-	-	-	-	-	23
-	-	-	-	-	-	-	-	-	-	-	24
21,431	588,099	-	32,891,483	-	5,938,739,791	-	-	-	12,689,103,652	2,832,038,541	25
211,188	130,593	-	10,605,875	34,759	27,029,714	-	-	71,332,293	...	7,182,528	26



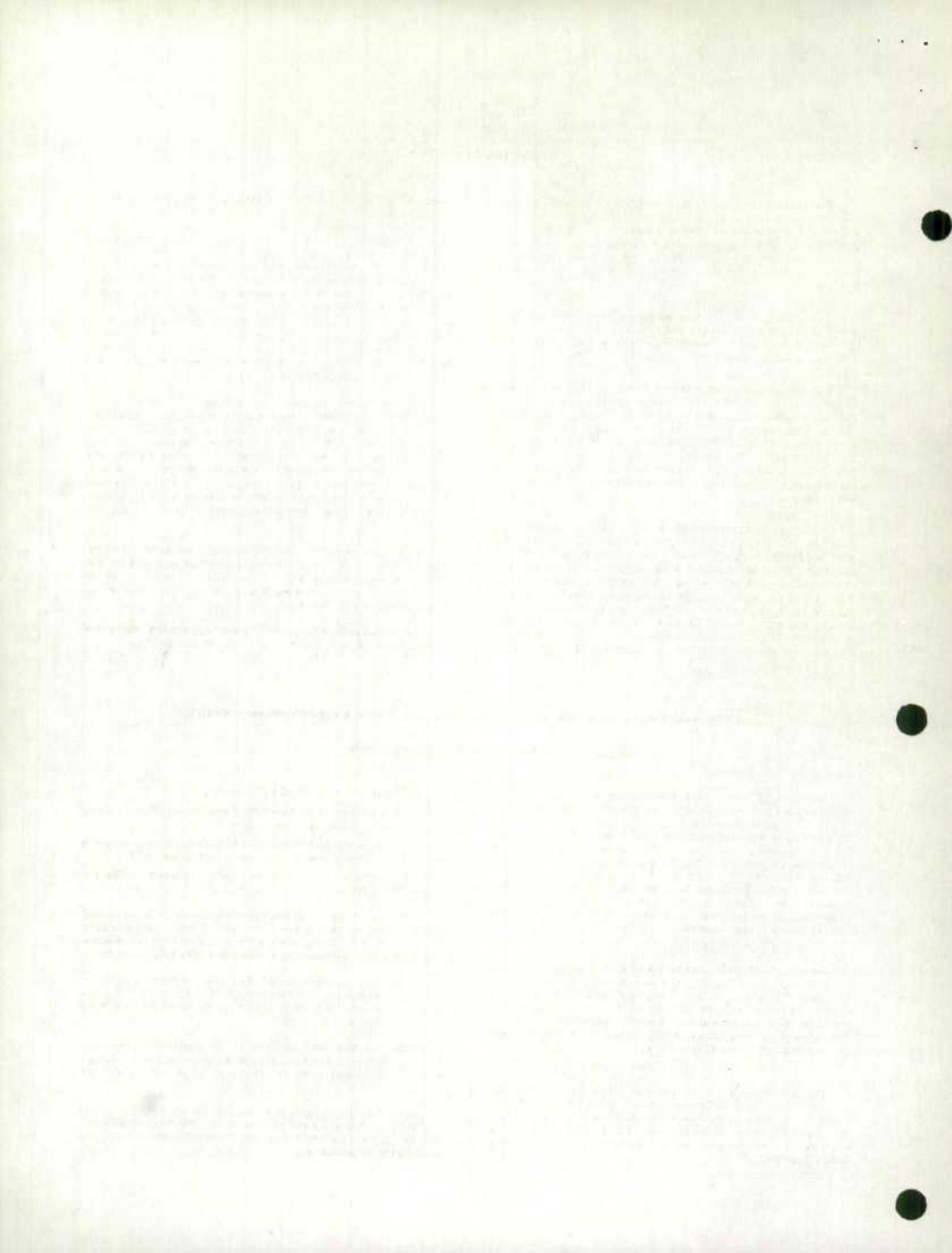
MINERAL STATISTICS

TABLE 39. Cost of Prospecting Conducted by Metal Mining Companies, 1959-62

Provinces in which prospecting was conducted	By placer gold mines ¹	By gold quartz mines ¹	By copper-gold-silver mines ¹	By silver-cobalt mines ¹	By silver-lead-zinc mines ¹	By nickel-copper mines ¹	By miscellaneous metal mines ^{1,2}	Total metal mining
dollars								
1959								
Newfoundland	—	49,646	33,117	—	251,038	—	568,805	902,606
Nova Scotia	468	54,283	90,232	—	2,007	—	8,680	155,670
New Brunswick	17,577	275,593	310,385	—	73,112	—	9,513	686,180
Quebec	—	1,707,344	13,966,818	42,202	205,736	626,542	4,077,469	20,626,111
Ontario	—	1,203,466	3,184,028	45,281	75,738	2,146,916	1,096,012	7,781,441
Manitoba	—	126,883	2,395,300	400	8,442	5,264,027	31,443	7,836,907
Saskatchewan	—	28,211	468,794	—	17,724	188,509	143,202	846,440
Alberta	32,500	—	2,605	—	44,348	—	—	79,453
British Columbia	3,413	76,945	1,436,069	—	737,916	1,043	280,293	2,535,679
Yukon	11,181	14,424	167,145	—	77,094	—	2,368	272,312
Northwest Territories	—	112,491	172,440	—	66,458	285,227	698,730	1,335,346
Canada	65,139	3,649,286	22,226,933	87,883	1,559,613	8,512,264	6,916,517	43,017,635
1960								
Newfoundland	—	28,092	385,623	—	354,094	—	686,499	1,454,308
Nova Scotia	16,686	91,703	186,350	—	17,057	—	2,567	314,383
New Brunswick	—	286,612	809,925	—	669,595	—	9,327	1,775,459
Quebec	—	1,525,247	7,696,468	—	3,068,141	590,134	2,103,458	14,983,448
Ontario	42,440	914,549	3,763,158	26,808	99,036	2,832,077	1,705,984	9,384,052
Manitoba	—	248,231	2,649,070	—	11,691	5,171,145	27,655	8,107,792
Saskatchewan	—	2,364	575,099	—	20,323	462,622	18,061	1,078,469
Alberta	31,865	—	904	—	64,643	—	630	98,042
British Columbia	5,319	228,824	2,508,003	—	845,280	2,465	230,801	3,820,692
Yukon	22,495	6,980	304,612	—	81,150	—	31,588	446,825
Northwest Territories	—	481,939	226,046	—	371,537	352,938	657,680	2,090,140
Canada	118,805	3,814,541	19,105,258	26,808	5,602,547	9,411,381	5,474,270	43,553,610
1961								
Newfoundland	—	7,794	588,297	—	476,305	—	484,443	1,556,839
Nova Scotia	—	12,997	184,268	—	48,404	—	28,119	273,768
New Brunswick	—	55,595	490,739	1,307	125,817	—	261,738	935,196
Quebec	52,134	1,300,112	7,450,734	12,016	5,101,504	1,771,332	3,135,387	18,823,219
Ontario	—	1,164,454	3,002,677	77,743	107,419	2,544,031	800,749	7,697,073
Manitoba	—	615,129	2,611,871	4,886	20,000	3,812,959	44,254	7,109,089
Saskatchewan	—	71,754	859,520	—	8,920	329,047	44,150	1,313,391
Alberta	3,209	—	892	—	10,655	—	10,000	24,756
British Columbia	11,771	263,003	2,666,130	6	696,468	4,650	352,319	3,994,347
Yukon	32,370	10,099	263,862	—	161,926	—	5,000	473,257
Northwest Territories	—	162,483	248,158	—	294,337	365,527	213,601	1,284,106
Canada	99,484	3,663,420	18,367,148	95,958	7,051,755	8,827,546	5,379,760	43,485,071
1962								
Newfoundland	—	13,000	499,436	—	535,779	606	136,230	1,185,051
Nova Scotia	—	4,379	77,152	—	86,543	297	124,655	293,026
New Brunswick	28,000	34,125	361,098	—	182,842	—	58,567	644,632
Quebec	32,100	2,158,699	5,055,025	—	6,725,228	1,542,879	1,100,316	16,614,247
Ontario	—	1,800,075	1,694,626	47,553	353,178	3,840,373	1,672,100	9,407,905
Manitoba	—	119,485	1,685,544	—	58,563	3,309,538	201,567	5,374,697
Saskatchewan	—	156,295	209,081	—	68,622	267,005	52,211	753,214
Alberta	1,400	467	—	—	161,000	—	39,000	201,867
British Columbia	3,445	377,016	2,957,805	—	985,502	835,968	1,029,958	6,189,694
Yukon	35,890	171,745	482,685	—	206,887	20,000	720,398	1,637,605
Northwest Territories	—	159,979	330,956	—	163,144	603,729	230,395	1,488,203
Canada	100,835	4,995,265	13,353,408	47,553	9,507,288	10,420,395	5,365,397	43,790,141

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

² Includes iron, uranium, molybdenum, etc.



APPENDIX

MINERAL STATISTICS

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

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

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

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

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

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

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

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

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

METALLIC MINERAL PRODUCTION

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

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

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

Production is calculated as follows:

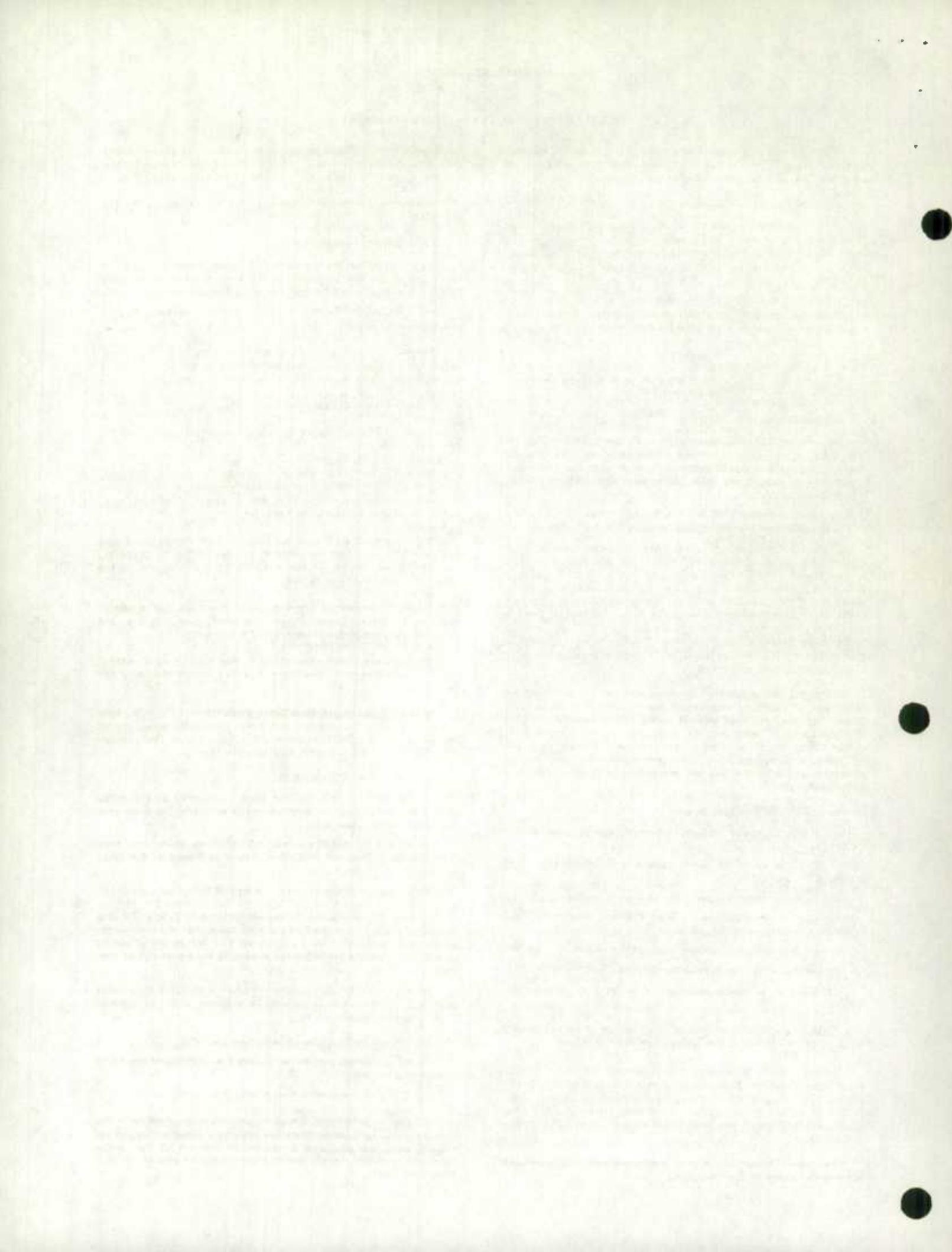
- (a) Bismuth metal produced at Canadian smelters, valued as reported by producer.
- (b) Bismuth content of silver-lead-bismuth bullion shipped to smelters, Canadian or foreign, value as reported by firm.
- (c) Bismuth content of impure metal shipped, value as reported by firm.

Cadmium—Cadmium is associated with zinc. It is recovered in the refining of zinc by the Consolidated Mining and Smelting Co. of Canada at Trail, British Columbia and by the Hudson Bay Mining and Smelting Co. Limited at Flin Flon, Manitoba.

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

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

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



METALLIC MINERAL PRODUCTION - Continued

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

Cobalt - Production includes:

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

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

Columbium - Production is the columbium pentoxide (Cb_2O_5) contained in the concentrates shipped by the producers. The value is reported by the shipper.

Copper - Production includes:

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

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

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

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

Gold - Production includes:

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

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

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

(d) Gold in base bullion made by Consolidated Mining and Smelting Company, Limited, at Trail, British Columbia.

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

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

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

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

Indium - Small quantities are recovered by the Consolidated Mining and Smelting Company of Canada, Limited, Trail, British Columbia, in the smelting of lead-zinc-silver ores. The output is valued by the shipper. No data on indium are published and the figures are excluded from the Mineral Production of Canada.

Iron ore - Production figures represent mine shipments at the values shown by the shippers.

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

Quantity and value figures are those reported by the producer.

Lead - Production includes:

(a) Recoverable lead in ores and concentrates shipped for export. Recoverable lead is computed as total lead content, less five per cent of content as an allowance for smelter losses.

(b) Lead in base bullion made by the Consolidated Mining and Smelting Company, Limited, at Trail, British Columbia.

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

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

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

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

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

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

Mercury - There has been little production in Canada since 1944. Production figures for past years represent actual output valued at the prevailing market price, that is, at the average New York price for the year, in Canadian funds.

Nickel - Production includes:

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

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

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

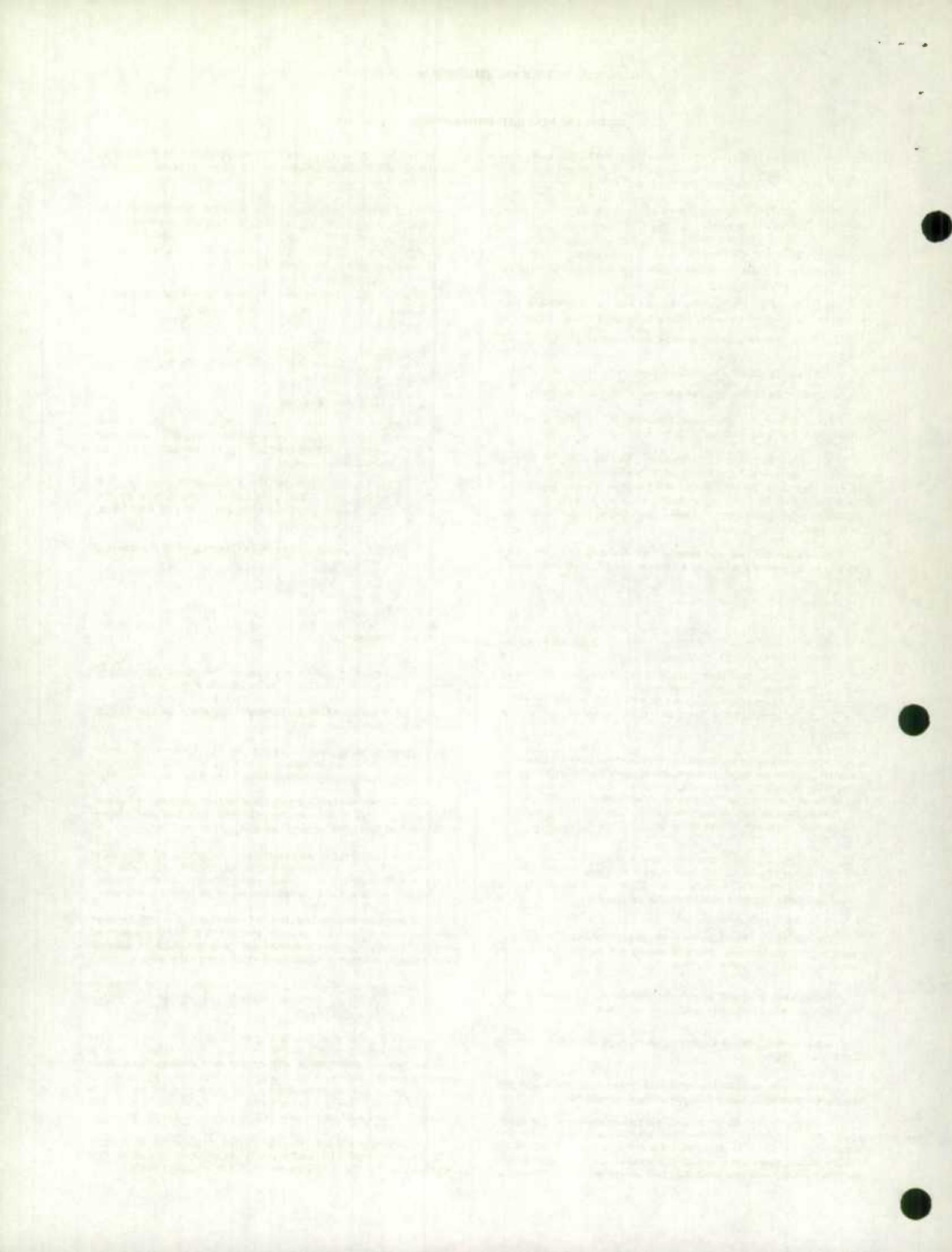
(d) Recoverable nickel in concentrates shipped from other provinces to smelters in Ontario or refinery in Saskatchewan valued at an arbitrary price.

Platinum group metals - Production includes:

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

(b) Platinum recovered from placer workings.

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



METALLIC MINERAL PRODUCTION — Concluded

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

Silver — Production includes:

- (a) Silver bullion produced from treatment of cobalt-silver ores by the Cobalt Refinery Ltd.
- (b) Silver in base bullion made by Consolidated Mining and Smelting Company of Canada, Limited, Trail, British Columbia.
- (c) Recoverable silver in ores and concentrates shipped for export.
- (d) Silver in crude gold bullion produced.
- (e) Silver in blister copper made at Canadian smelters.

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

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

Tin — Canada has no commercial tin deposits. A small tonnage is recovered as a by-product by the Consolidated

Mining and Smelting Company of Canada, Limited, at Kimberley, British Columbia, from the treatment of the Sullivan lead-zinc-silver ore.

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

Tungsten ore — Production in Canada is very small. Output is computed in terms of WO₃ content of tungsten concentrates shipped, valued by the shipper.

Uranium — Producers of uranium precipitates or concentrates report the U₃O₈ content of the shipments and the value received by the shipper.

Zinc — Production includes:

- (a) Recoverable zinc in ores shipped for export from Canada. Recoverable zinc is computed as the total zinc content, less 160 pounds of zinc per ton of concentrates as an allowance for smelter losses.
- (b) Refined zinc made by the Consolidated Mining and Smelting Company Ltd., Trail, British Columbia, and by the Hudson Bay Mining and Smelting Company, Ltd., at Flin Flon, Manitoba.

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

NON-METALLIC MINERAL PRODUCTION

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

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

Arsenic — No Canadian ores are mined for arsenic only. White arsenic (As₂O₃) is recovered as a by-product in the treatment of silver-cobalt-nickel ores of the Cobalt district in Ontario at the smelter of Cobalt Refinery Ltd.

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

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

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

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

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

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

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

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

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

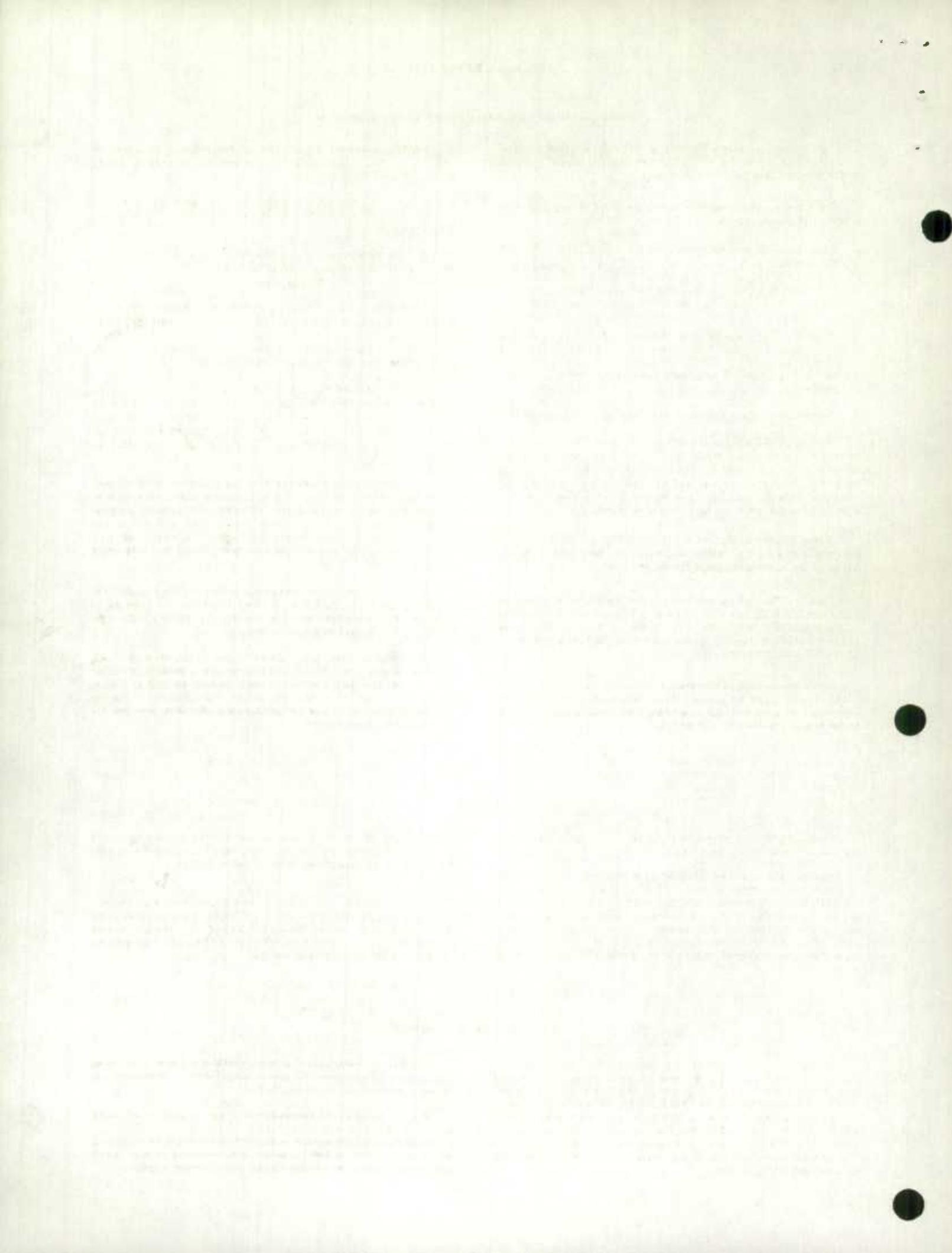
Lithia — Spodumine concentrates are produced in north-Western Quebec by the Quebec Lithium Corporation. Production represents the lithia or lithium oxide content of the concentrates shipped and the value is that reported by the producer.

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

Magnesium sulphate — Production is the tonnage of crude or refined natural magnesium sulphate shipped at its selling value, f.o.b. shipping points.

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

Natural mineral waters — Production represents shipments of natural mineral waters as reported by owner or lessor of well or spring at the total selling value, f.o.b. shipping points.



NON-METALLIC MINERAL PRODUCTION - Concluded

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

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

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

Potash - Near Saskatoon, Saskatchewan, the Potash Company of America mined potassium chloride. The quantity of potash was measured as the K₂O equivalent. Quantity data are not published. Value of shipments f.o.b. plant are reported by the producer.

Pozzolan - Values are those received by the shippers.

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

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

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

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

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

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

Sodium carbonate - Production represents the tonnage of crude or purified natural sodium carbonate shipped at its total selling value, f.o.b. shipping points.

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

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

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

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

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

FUELS

Coal - Production represents the output tonnage, valued at the average realization from sales.

Natural gas - Production is taken as the natural gas output less the gas which is wasted or flared. Deductions are made for gas withdrawn from storage. Data for the Western provinces are supplied by the Oil and Gas Conservation Boards. Alberta natural gas is valued by calculating the average price from the data shown on the producers' reports. Ontario natural gas is valued at an arbitrary wholesale price. Reports of the provincial

governments of British Columbia and Saskatchewan show the price of natural gas. Firms in New Brunswick and the Northwest Territories report the value of natural gas.

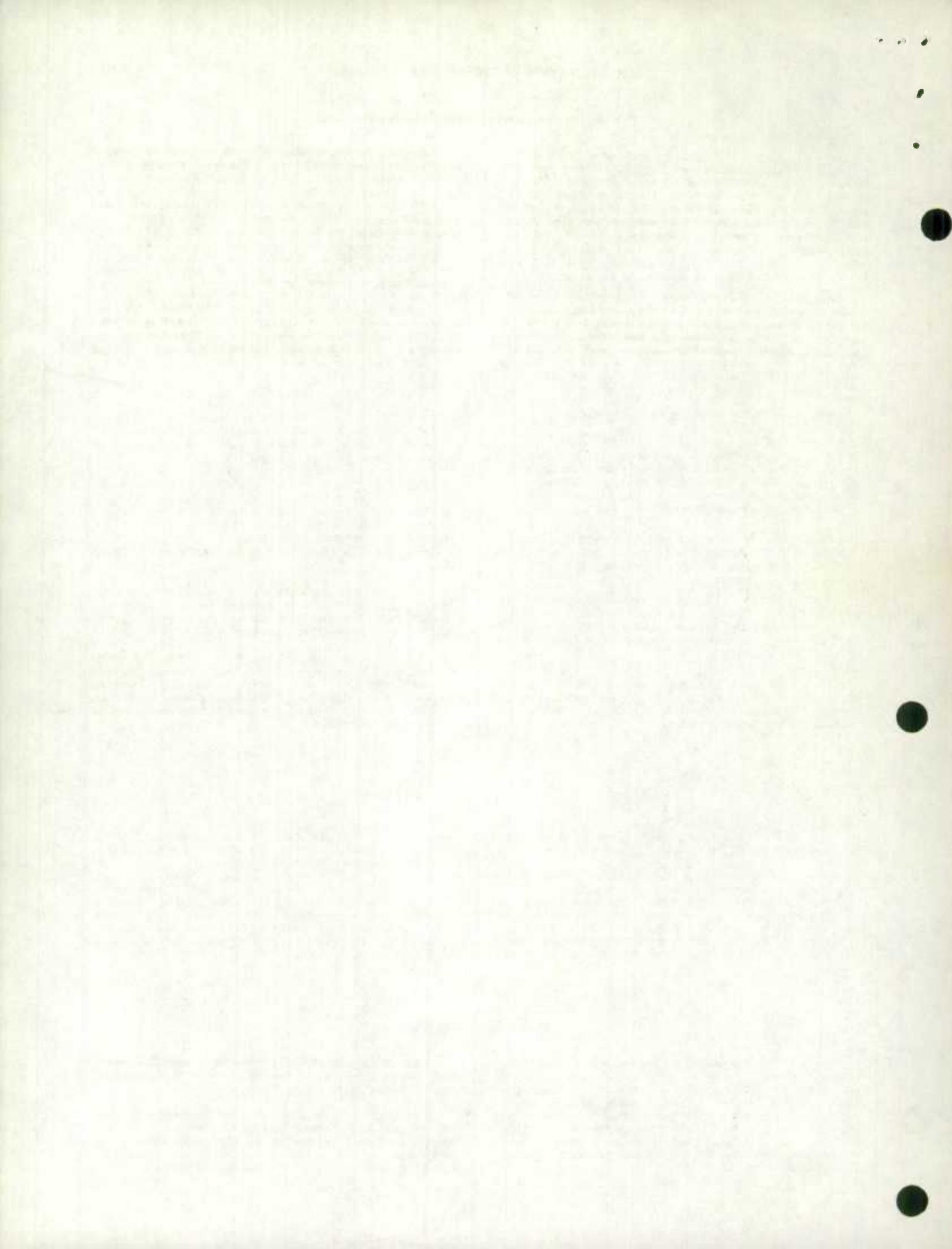
Crude petroleum - The output is measured on a provincial basis and the average price received for the oil sold is applied to the production. In the Northwest Territories, the production is valued by the gross realization of sales. New Brunswick firms report the quantity and value.

STRUCTURAL MATERIALS

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

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

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



STRUCTURAL MATERIALS - Concluded

Lime - Production represents the tonnage of hydrated and quicklime shipped (sold by the producer) together with the tonnage of these limes produced and consumed by the producers of chemicals and allied products. The values taken are as reported by the producer. If waste or "spent" lime is "recalcined" or utilized again in the manufacture of such products as calcium carbide, the necessary deductions are made to prevent duplication.

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

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

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

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