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PRELIMINARY REPORT ON
MINERAL PRODUCTION

1964

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SYMBOLS

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

- .. figures not available.
- ... figures not appropriate or not applicable.
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- preliminary figures.
- ⋄ revised figures.

INTRODUCTION

Again the mineral industry in Canada made a new high in 1964 in the total value of shipments which amounted to \$3,397 million. This is shown in an estimate prepared by the Dominion Bureau of Statistics, Ottawa. The value in the preceding year was \$3,050 million. The leading mineral commodities were: crude petroleum \$674 million; iron ore, \$403 million; nickel \$382 million; copper \$328 million; zinc \$193 million; natural gas \$183 million; asbestos \$148 million and gold \$144 million.

Metals, ores and concentrates were valued at \$1,705 million. The iron mines in Quebec and Newfoundland have increased their output and additional tonnage can be expected from the new mines under development. Nickel shipments were 233,000 tons and copper tonnage was 495,000. The uranium deliveries tapered off to \$85 million. New mines in Quebec and New Brunswick raised the output of zinc to 682,000 tons. Canada now ranks first in the world zinc ore production.

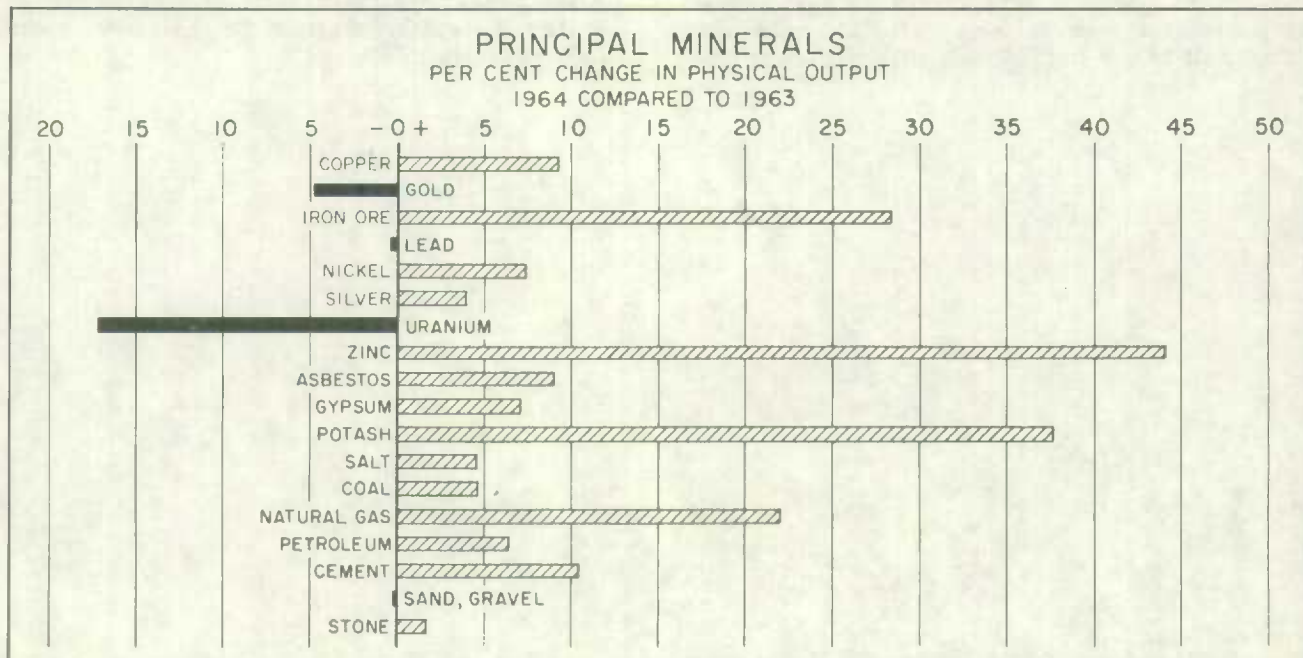
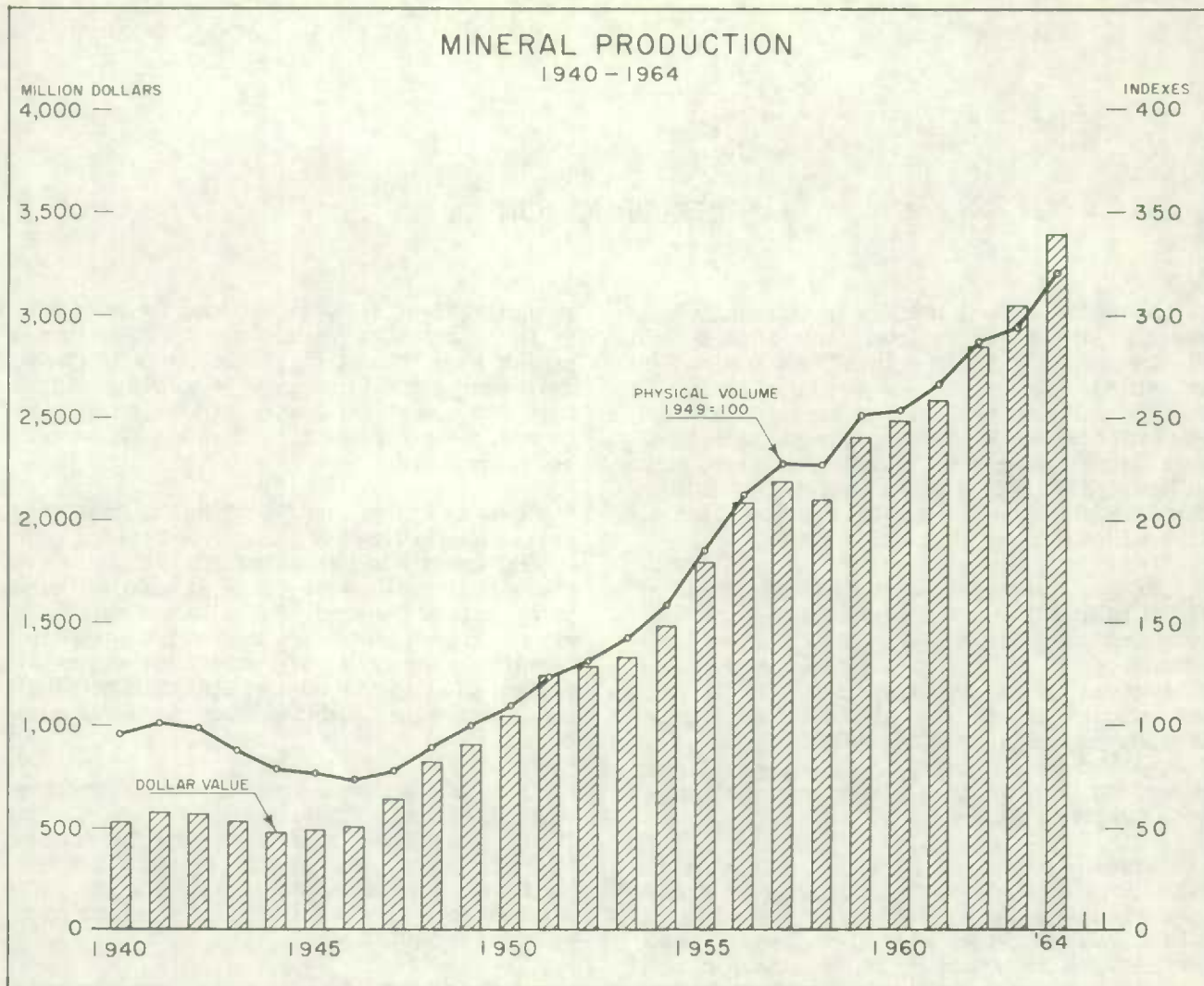
Non-metallic minerals increased 11 per cent in value to exceed \$287 million. The greatest contributor was the asbestos industry which shipped \$148 million worth of crudes and milled fibres. Quebec produced the major portion of the asbestos, with substantial amounts mined in Newfoundland, Ontario and British Columbia. The potash shipments from the Saskatchewan deposits exceeded \$30 million in value. Salt in the form of rock salt, brine and fine

vacuum salt was produced at about the same level as in the preceding years. Over 6 million tons of gypsum were shipped to plaster plants in Canada and United States. Producers of elemental sulphur from sour gas found export markets for this by-product, thereby reducing the huge stockpiles which had accumulated.

Over \$1 billion worth of mineral or fossil fuels were shipped in 1964. As recently as 1950 the entire mineral industry had a total of a billion dollars. In that year the fuels were valued at \$200 million or 20 per cent of the total. The value has been multiplied by five to become one third of the total. Crude petroleum amounted to 274 million barrels, natural gas had an estimated value of \$183 million. Natural gas by-products included condensate, propane, butane, etc.

Structural materials continued upward at a 6 per cent rate. Clay products, including brick, tile flue linings and pottery were worth over \$40 million. Most of the cement plants operated at capacity to supply the demand for nearly 8 million tons. The value, at the quarry or pit of stone, sand and gravel amounted to \$207 million.

Note: All 1964 figures in this report are preliminary and are subject to revision upon receipt of more complete data. Figures for the earlier years have been revised.



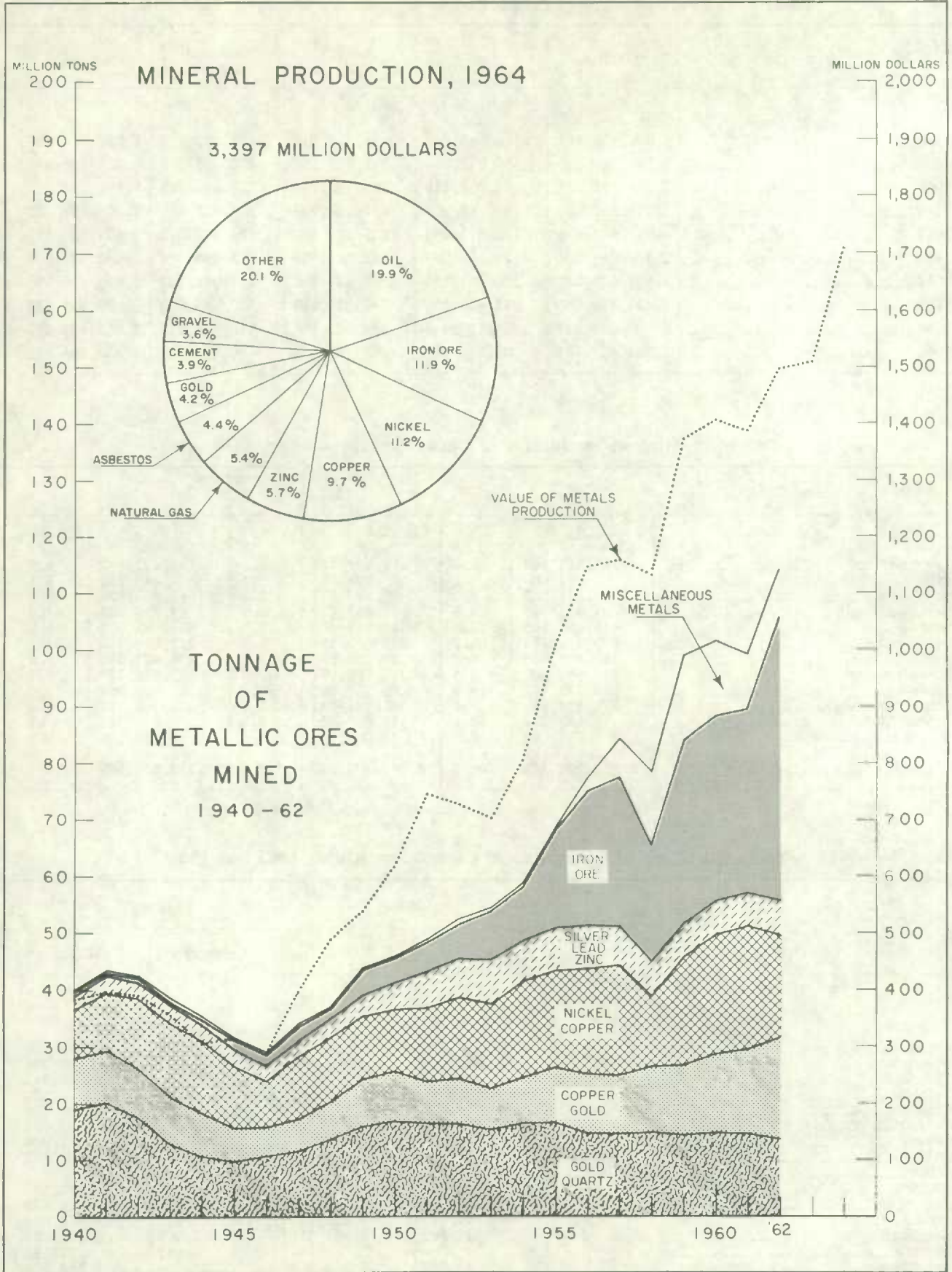


TABLE 1. Value of Mineral Production of Canada, by Classes, 1955 - 64

Year	Metallics	Non-metallics	Mineral fuels	Structural materials	Total
	dollars				
1955	1, 007, 839, 501	144, 920, 841	414, 318, 015	228, 232, 439	1, 795, 310, 796
1956	1, 146, 349, 595	160, 341, 599	518, 761, 191	259, 453, 169	2, 084, 905, 554
1957	1, 159, 579, 226	169, 061, 110	564, 776, 791	296, 905, 265	2, 190, 322, 392
1958	1, 130, 160, 395	150, 354, 802	510, 768, 681	309, 455, 160	2, 100, 739, 038
1959	1, 370, 648, 535	178, 216, 641	535, 577, 823	324, 577, 512	2, 409, 020, 511
1960	1, 406, 558, 061	197, 505, 783	565, 851, 829	322, 594, 308	2, 492, 509, 981
1961	1, 387, 159, 036	210, 467, 786	653, 327, 802	331, 345, 763	2, 582, 300, 387
1962	1, 496, 433, 950	217, 453, 009	780, 932, 387	356, 166, 833	2, 850, 986, 179
1963	1, 509, 536, 931	253, 452, 413	908, 428, 087	379, 011, 116	3, 050, 428, 547
1964	1, 704, 622, 877	286, 900, 692	1, 005, 190, 049	400, 441, 081	3, 397, 154, 699

TABLE 2. Mineral Production of Canada, by Provinces, 1962 - 64

Province	1962		1963		1964	
	\$	%	\$	%	\$	%
Newfoundland	101, 858, 960	3.6	137, 796, 707	4.5	191, 922, 042	5.6
Prince Edward Island.....	677, 906	0.2	798, 345	0.1	843, 115	0.1
Nova Scotia.....	61, 651, 093	2.1	66, 317, 617	2.2	66, 952, 434	2.0
New Brunswick.....	21, 811, 575	0.8	28, 343, 419	0.9	49, 856, 301	1.5
Quebec.....	519, 453, 166	18.2	540, 615, 068	17.7	671, 881, 571	19.8
Ontario.....	913, 342, 174	32.0	873, 828, 297	28.1	911, 098, 372	26.8
Manitoba.....	158, 932, 169	5.6	169, 638, 539	5.6	175, 041, 740	5.2
Saskatchewan.....	240, 653, 502	8.4	272, 355, 007	8.9	279, 995, 723	8.2
Alberta.....	566, 502, 703	19.9	669, 311, 368	21.9	747, 348, 396	22.0
British Columbia.....	235, 428, 135	8.2	261, 146, 081	8.6	269, 293, 797	7.9
Yukon.....	13, 137, 730	0.4	14, 366, 936	0.5	15, 210, 744	0.4
Northwest Territories.....	17, 537, 066	0.6	15, 911, 163	0.5	17, 710, 464	0.5
Totals.....	2, 850, 986, 179	100.0	3, 050, 428, 547	100.0	3, 397, 154, 699	100.0

TABLE 3. Mineral Production of Canada, by Kinds, 1963 and 1964

	1963		1964	
	Quantity	Value	Quantity	Value
		\$		\$
Metallics				
Antimony..... lb.	1, 601, 253	624, 489	1, 718, 634	866, 200
Bismuth..... "	359, 125	704, 103	387, 213	839, 725
Cadmium..... "	2, 475, 485	5, 941, 164	2, 800, 761	8, 950, 213
Calcium..... "	98, 673	117, 247	158, 875	174, 762
Cobalt..... "	3, 024, 965	6, 122, 169	3, 196, 322	6, 484, 255
Columbium (Cb ₂ O ₃)..... "	1, 393, 444	1, 300, 009	2, 250, 000	2, 305, 000
Copper..... "	905, 117, 779	284, 403, 710	988, 033, 963	328, 233, 604
Gold..... troy oz.	4, 003, 127	151, 118, 045	3, 810, 738	143, 855, 362
Indium..... "	..	..	..	..
Iron ore..... ton	30, 143, 649	313, 182, 963	38, 664, 583	402, 892, 490
Iron, remelt..... "	..	9, 246, 713	..	15, 954, 893
Lead..... lb.	402, 329, 071	44, 251, 199	400, 770, 432	53, 863, 546
Magnesium..... "	17, 814, 348	5, 357, 816	18, 041, 900	5, 592, 989
Mercury..... "	..	..	5, 548	22, 192
Molybdenum..... "	833, 867	1, 344, 004	1, 278, 404	1, 789, 234
Nickel..... "	434, 059, 725	360, 392, 658	465, 749, 775	381, 996, 719

TABLE 3. Mineral Production of Canada, by Kinds, 1963 and 1964 - Concluded

		1963		1964	
		Quantity	Value	Quantity	Value
			\$		\$
Metallics - Concluded					
Platinum, group	troy oz.	357,651	22,585,205	374,988	25,196,159
Selenium	lb.	468,772	2,273,545	448,750	2,213,182
Silver	troy oz.	2,993,200	41,425,891	31,111,943	43,556,719
Tantalum (Ta ₂ O ₅)		—	—	—	—
Tellurium	lb.	76,842	499,473	79,789	508,830
Thorium		—	—	—	—
Tin	lb.	927,062	648,943	356,074	623,128
Titanium ore		—	—	—	—
Tungsten (WO ₃)		—	—	—	—
Uranium (U ₃ O ₈)	lb.	16,703,066	136,909,119	13,828,369	85,418,271
Zinc	"	947,444,960	121,083,466	1,364,048,909	193,285,404
Total metallics		...	1,509,536,931	...	1,704,622,877
Non-metallics					
Arsenious oxide	lb.	187,450	7,498	300,000	12,000
Asbestos	ton	1,275,530	136,956,180	1,377,079	148,370,312
Barite	"	173,503	1,693,119	172,415	1,692,400
Diatomite	"	798	26,830	584	20,360
Feldspar	"	8,608	197,031	8,615	205,420
Fluorspar		...	1,976,006	...	2,291,626
Gem stones		...	15,529	...	15,000
Graphite	ton	—	—	13	6,570
Grindstone	"	10	2,000	10	2,000
Gypsum	"	5,955,266	11,237,952	6,373,765	12,397,828
Helium		...	...	...	...
Iron oxides	ton	978	74,505	914	79,015
Lithia	lb.	644,354	682,029	1,049,783	1,152,000
Magnesitic-dolomite and brucite		...	3,439,890	...	3,467,029
Mica	lb.	1,183,041	44,284	1,202,800	95,583
Mineral waters		—	—	—	—
Nepheline syenite	ton	254,000	2,699,202	292,042	3,397,106
Nitrogen		...	...	...	...
Peat moss	ton	243,311	8,680,228	245,117	7,177,608
Potash, (K ₂ O)	"	626,860	22,500,000	862,440	30,660,000
Pozzolan		...	17,994	...	20,000
Pyrite, pyrrhotite	ton	476,438	1,643,629	356,349	1,128,019
Quartz	"	1,836,612	3,687,979	2,130,837	4,602,864
Salt	"	3,721,994	22,316,565	3,892,636	23,075,518
Soapstone and talc ¹	"	54,250	757,878	57,150	819,154
Sodium sulphate	"	256,914	4,121,114	330,178	5,328,220
Sulphur in smelter gas	"	353,243	3,488,181	434,776	4,493,182
Sulphur, elemental	"	1,249,887	13,380,182	1,611,181	15,409,943
Titanium dioxide, etc.		...	13,806,608	...	20,981,935
Total non-metallics		...	253,452,413	...	286,900,692
Mineral - Fuels					
Coal	ton	10,575,694	71,756,581	11,072,776	72,109,342
Natural gas	Mcf.	1,117,425,217	150,468,714	1,363,814,214	183,505,880
Natural gas by-products		...	70,997,795	...	75,096,676
Petroleum, crude	bbl.	257,661,777	615,204,997	274,250,125	674,478,151
Total fuels		...	908,428,087	...	1,005,190,049
Structural materials					
Clay products (brick, tile, etc.)		...	38,154,294	...	40,534,768
Cement	ton	7,013,662	118,614,929	7,744,516	133,087,366
Lime	"	1,450,731	18,504,220	1,490,922	19,122,104
Sand and gravel	"	189,570,503	123,854,254	189,374,681	124,049,509
Stone	"	62,655,329	79,883,419	63,630,849	83,647,334
Total structural materials		...	379,011,116	...	400,441,081
Grand totals		...	3,050,428,547	...	3,397,154,699

¹ Includes pyrophyllite.

TABLE 4. Preliminary Estimate of the Mineral Production of Canada, by Provinces, 1964

No.		Newfound- land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Metals						
1	Antimony	lb.	—	—	—	—
2		\$	—	—	—	—
3	Bismuth	lb.	—	—	—	173,795
4		\$	—	—	—	310,448
5	Cadmium	lb.	249,000	—	—	277,462
6		\$	806,760	—	—	898,977
7	Calcium	lb.	—	—	—	—
8		\$	—	—	—	—
9	Cobalt	lb.	—	—	—	90,000
10		\$	—	—	—	175,000
11	Columbium (Cb ₂ O ₃)	lb.	—	—	—	2,250,000
12		\$	—	—	—	2,305,000
13	Copper	lb.	29,011,166	—	568,133	21,046,344
14		\$	9,689,729	—	189,756	7,029,479
15	Gold	lb.	18,679	—	63	1,440
16		\$	705,132	—	2,378	54,360
17	Indium	—	—	—	—	35,671,523
18		—	—	—	—	—
19	Iron ore	\$	13,094,240	—	—	15,417,069
20		\$	142,524,360	—	—	155,581,064
21	Iron, remelt	—	—	—	—	—
22		\$	—	—	—	15,954,893
23	Lead	lb.	48,735,900	—	3,151,548	44,754,384
24		\$	6,550,105	—	423,568	6,014,989
25	Magnesium	lb.	—	—	—	—
26		\$	—	—	—	—
27	Mercury	lb.	—	—	—	—
28		\$	—	—	—	—
29	Molybdenum	lb.	—	—	—	1,203,334
30		\$	—	—	—	1,684,668
31	Nickel	lb.	—	—	—	4,659,553
32		\$	—	—	—	3,914,025
33	Platinum group	oz.	—	—	—	—
34		\$	—	—	—	—
35	Selenium	lb.	—	—	—	238,072
36		\$	—	—	—	1,190,360
37	Silver	oz.	1,338,901	—	539,801	1,478,231
38		\$	1,874,461	—	755,721	2,069,523
39	Tellurium	lb.	—	—	—	60,192
40		\$	—	—	—	391,248
41	Thorium	—	—	—	—	—
42		—	—	—	—	—
43	Tin	lb.	—	—	—	—
44		\$	—	—	—	—
45	Titanium ore	—	—	—	—	—
46		—	—	—	—	—
47	Tungsten (WO ₃)	—	—	—	—	—
48		—	—	—	—	—
49	Uranium (U ₃ O ₈)	lb.	—	—	—	—
50		\$	—	—	—	—
51	Zinc	lb.	82,995,300	—	1,288,998	107,570,316
52		\$	11,760,108	—	182,651	15,242,714
53	Total metals	\$	173,910,655	—	1,554,074	30,411,065
						397,470,422
Non-metallics						
54	Arsenious oxide	lb.	—	—	—	—
55		\$	—	—	—	—
56	Asbestos	ton	50,281	—	—	1,245,442
57		\$	8,296,365	—	—	125,897,947
58	Barite	ton	—	—	165,000	—
59		\$	—	—	1,612,000	—
60	Diatomite	ton	—	—	—	—
61		\$	—	—	—	—
62	Feldspar	ton	—	—	—	8,615
63		\$	—	—	—	205,420
64	Fluorspar	—	—	—	—	—
65		\$	2,886,887	—	—	—
66	Gem stones	—	—	—	—	—
67		\$	—	—	—	—
68	Graphite	ton	—	—	—	13
69		\$	—	—	—	6,570

TABLE 4. Preliminary Estimate of the Mineral Production of Canada, by Provinces, 1964

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Northwest Territories	Canada	No.
—	—	—	—	1,718,634	—	—	1,718,634	1
—	—	—	—	866,200	—	—	866,200	2
—	—	—	—	213,418	—	—	387,213	3
—	—	—	—	529,277	—	—	839,725	4
—	203,733	121,464	—	1,756,580	192,522	—	2,800,761	5
—	611,199	364,392	—	5,691,319	577,566	—	8,950,213	6
158,875	—	—	—	—	—	—	158,875	7
174,762	—	—	—	—	—	—	174,762	8
2,219,345	886,977	—	—	—	—	—	3,196,322	9
4,793,785	1,515,470	—	—	—	—	—	6,484,255	10
—	—	—	—	—	—	—	2,250,000	11
—	—	—	—	—	—	—	2,305,000	12
402,062,125	58,383,389	41,376,121	—	115,011,220	—	—	988,033,963	13
132,519,010	19,500,052	13,819,624	—	38,413,747	—	—	328,233,604	14
2,135,269	55,919	47,692	55	132,642	57,075	416,963	3,810,738	15
80,606,407	2,110,942	1,800,373	2,076	5,007,236	2,154,581	15,740,354	143,855,362	16
—	—	—	—	..	—	—	..	17
—	—	—	—	..	—	—	..	18
7,985,715	—	—	—	2,167,559	—	—	38,664,583	19
84,423,975	—	—	—	20,363,091	—	—	402,892,490	20
—	—	—	—	—	—	—	..	21
—	—	—	—	—	—	—	15,954,893	22
3,976,464	2,657,601	—	—	268,319,567	18,927,109	3,690,000	400,770,432	23
534,437	357,182	—	—	36,062,150	2,543,803	495,936	53,863,546	24
18,041,900	—	—	—	—	—	—	18,041,900	25
5,592,989	—	—	—	—	—	—	5,592,989	26
—	—	—	—	5,548	—	—	5,548	27
—	—	—	—	22,192	—	—	22,192	28
31,070	—	—	—	44,000	—	—	1,278,404	29
42,566	—	—	—	62,000	—	—	1,789,234	30
330,508,485	127,071,737	—	—	3,510,000	—	—	465,749,775	31
268,506,035	106,628,259	—	—	2,948,400	—	—	381,996,719	32
374,988	..	—	—	—	—	—	374,988	33
25,196,159	..	—	—	—	—	—	25,196,159	34
103,405	45,911	61,362	—	—	—	—	448,750	35
502,548	222,668	297,606	—	—	—	—	2,213,182	36
10,719,539	706,296	611,475	4	5,309,486	5,584,497	66,462	31,111,943	37
15,007,355	988,814	856,065	6	7,433,280	7,818,296	93,047	43,556,719	38
7,900	5,006	6,691	—	—	—	—	79,789	39
47,400	30,036	40,146	—	—	—	—	508,830	40
..	—	—	—	—	—	—	..	41
..	—	—	—	—	—	—	..	42
—	—	—	—	356,074	—	—	356,074	43
—	—	—	—	623,128	—	—	623,128	44
—	—	—	—	—	—	—	—	45
—	—	—	—	—	—	—	—	46
—	—	—	—	—	—	..	..	47
—	—	—	—	—	—	..	..	48
12,035,382	—	1,792,987	—	—	—	—	13,828,369	49
74,361,393	—	1,156,878	—	—	—	—	85,418,271	50
136,839,166	85,342,780	56,858,266	—	415,312,776	14,291,939	6,390,000	1,364,048,909	51
19,390,110	12,093,072	8,056,816	—	58,849,820	2,025,168	905,463	193,285,404	52
711,698,931	144,057,694	36,291,900	2,082	176,871,840	15,119,414	17,234,800	1,704,622,877	53
—	—	—	—	—	—	—	—	54
300,000	—	—	—	—	—	—	300,000	54
12,000	—	—	—	—	—	—	12,000	55
15,500	—	—	—	65,856	—	—	1,377,079	56
2,256,000	—	—	—	11,920,000	—	—	148,370,312	57
—	—	—	—	7,415	—	—	172,415	58
—	—	—	—	80,400	—	—	1,692,400	59
—	—	—	—	584	—	—	584	60
—	—	—	—	20,360	—	—	20,360	61
—	—	—	—	—	—	—	8,615	62
—	—	—	—	—	—	—	205,420	63
—	—	—	—	—	—	—	..	64
—	—	—	—	4,739	—	—	2,291,626	65
—	—	—	—	..	—	—	..	66
—	—	—	—	15,000	—	—	15,000	67
—	—	—	—	—	—	—	13	68
—	—	—	—	—	—	—	6,570	69

TABLE 4. Preliminary Estimate of the Mineral Production of Canada, by Provinces, 1964 - Concluded

No.		Newfound- land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Non-metallics - Concluded						
1	Grindstone	ton	-	-	10	-
2		\$	-	-	2,000	-
3	Gypsum	ton	349,774	-	5,117,205	103,986
4		\$	826,900	-	9,101,074	176,454
5	Helium		-	-	-	-
6			-	-	-	-
7	Iron oxide	ton	-	-	-	914
8		\$	-	-	-	79,015
9	Lithia	lb.	-	-	-	1,049,783
10		\$	-	-	-	1,152,000
11	Magnesitic dolomite and brucite		-	-	-	...
12		\$	-	-	-	3,467,029
13	Mica	lb.	-	-	-	1,083,800
14		\$	-	-	-	91,937
15	Nepheline syenite	ton	-	-	-	-
16		\$	-	-	-	-
17	Nitrogen		-	-	-	-
18		\$	-	-	-	-
19	Peat moss	ton	-	-	2,871	31,340
20		\$	-	-	59,697	952,800
21	Potash (K ₂ O)	ton	-	-	-	1,953,261
22		\$	-	-	-	-
23	Pozzolan		-	-	-	-
24		\$	-	-	-	-
25	Pyrite, pyrrhotite	ton	-	-	-	...
26		\$	-	-	-	1,098,979
27	Quartz	ton	-	-	3,000	547,642
28		\$	-	-	45,000	2,771,375
29	Salt	ton	-	-	430,633	-
30		\$	-	-	4,739,620	-
31	Soapstone, talc, pyrophyllite	ton	32,816	-	-	16,434
32		\$	492,240	-	-	193,914
33	Sodium sulphate	ton	-	-	-	-
34		\$	-	-	-	-
35	Sulphur, in smelter gas	ton	-	-	-	...
36		\$	-	-	-	18,704
37	Sulphur, elemental	ton	-	-	-	386,267
38		\$	-	-	-	-
39	Titanium dioxide, etc.		-	-	-	...
40		\$	-	-	-	20,981,935
41	Total non-metallics	\$	11,902,392	-	15,557,391	1,149,958
Fuels						
42	Coal	ton	-	-	4,343,606	997,187
43		\$	-	-	43,357,223	8,277,442
44	Natural gas	Mcf.	-	-	-	109,212
45		\$	-	-	-	116,430
46	Natural gas, by-products		-	-	-	-
47		\$	-	-	-	-
48	Petroleum, crude	bbl.	-	-	-	4,961
49		\$	-	-	-	6,945
50	Total fuels	\$	-	-	43,357,223	8,400,817
Structural materials						
51	Clay products	\$	95,000	-	1,539,739	768,631
52	Cement	ton	95,312	-	-	176,584
53		\$	1,897,662	-	-	2,947,363
54	Lime	ton	-	-	-	5,678
55		\$	-	-	-	140,488
56	Sand and gravel	ton	3,930,010	187,600	6,439,028	4,798,699
57		\$	3,572,354	264,915	3,967,878	2,943,241
58	Stone	ton	278,714	578,200	428,940	2,952,297
59		\$	543,979	578,200	976,129	3,094,738
60	Total structural materials	\$	6,108,995	843,115	6,483,746	9,894,461
61	Grand totals, 1964	\$	191,922,042	843,115	66,952,434	49,856,301
62	Grand totals, 1963	\$	137,796,707	798,345	66,317,617	28,343,419

TABLE 4. Preliminary Estimate of the Mineral Production of Canada, by Province, 1964 - Concluded

Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories	Canada	No.
--	--	--	--	--	--	--	10	1
--	--	--	--	--	--	--	2,000	2
490,000	132,300	--	--	180,500	--	--	6,373,765	3
1,355,000	396,900	--	--	541,500	--	--	12,397,828	4
--	--	..	--	--	--	--	..	5
--	--	..	--	--	--	--	..	6
--	--	--	--	--	--	--	914	7
--	--	--	--	--	--	--	79,015	8
--	--	--	--	--	--	--	1,049,783	9
--	--	--	--	--	--	--	1,152,000	10
--	--	--	--	--	--	--	..	11
119,000	--	--	--	--	--	--	3,467,029	12
3,646	--	--	--	--	--	--	1,202,800	13
292,042	--	--	--	--	--	--	95,583	14
3,397,106	--	--	--	--	--	--	292,042	15
--	--	..	--	--	--	--	3,397,106	16
--	--	..	--	--	--	--	..	17
28,424	20,089	--	2,536	75,430	--	--	245,117	18
813,600	813,604	--	64,000	2,520,646	--	--	7,177,608	19
--	--	862,440	--	--	--	--	862,440	20
--	--	30,660,000	--	--	--	--	30,660,000	21
--	--	--	--	20,000	--	--	..	22
--	--	--	--	..	--	--	..	23
--	--	--	--	29,040	--	--	20,000	24
1,043,768	301,472	168,615	--	66,340	--	--	356,349	25
592,485	644,157	134,892	--	414,955	--	--	1,128,019	26
3,265,909	24,600	70,094	101,400	--	--	--	2,130,837	27
14,481,663	620,000	1,569,235	1,665,000	--	--	--	4,602,864	28
7,900	--	--	--	--	--	--	3,892,636	29
133,000	--	--	--	--	--	--	23,075,518	30
--	--	330,178	--	--	--	--	57,150	31
--	--	5,328,220	--	--	--	--	819,154	32
1,677,329	--	--	--	2,410,882	--	--	330,178	33
13,426	33,937	--	14,682,380	680,200	--	--	5,328,220	34
--	--	--	--	--	--	--	434,776	35
--	--	--	--	--	--	--	4,493,182	36
--	--	--	--	--	--	--	1,611,181	37
24,735,255	2,508,598	37,692,347	16,411,380	18,657,722	--	--	15,409,943	38
--	--	--	--	--	--	--	..	39
--	--	--	--	--	--	--	20,981,935	40
--	--	1,807,760	2,875,635	1,041,796	6,792	--	11,072,776	42
--	--	3,683,543	10,414,367	6,285,437	91,330	--	72,109,342	43
13,763,068	--	40,941,000	1,184,041,600	124,927,747	--	31,587	1,363,814,214	44
5,091,200	--	4,629,825	162,450,508	11,204,770	--	13,147	183,505,880	45
--	--	..	..	..	--	--	..	46
--	--	2,154,342	70,500,334	2,442,000	--	--	75,096,676	47
1,260,000	4,370,000	81,040,229	175,230,500	11,726,180	--	618,255	274,250,125	48
3,595,145	10,620,000	184,403,588	451,640,600	23,749,356	--	462,517	674,478,151	49
8,686,345	10,620,000	194,871,298	695,005,809	43,681,563	91,330	475,664	1,005,190,049	50
23,316,149	595,692	1,447,500	3,777,570	2,578,334	--	--	40,534,768	51
2,975,590	364,421	240,000	771,361	538,467	--	--	7,744,516	52
47,768,953	7,839,789	5,996,100	14,777,775	10,104,465	--	--	133,087,366	53
1,008,123	53,760	--	58,618	15,343	--	--	1,490,922	54
12,236,864	911,019	--	1,051,192	165,848	--	--	19,122,104	55
75,333,285	9,667,983	7,076,337	16,558,448	22,272,170	--	--	189,374,681	56
53,333,236	7,046,579	3,696,578	15,873,855	12,759,729	--	--	124,049,509	57
22,460,048	1,087,999	--	117,051	3,217,338	--	--	63,630,849	58
29,322,639	1,462,389	--	448,733	4,474,296	--	--	83,647,334	59
165,977,841	17,855,448	11,140,178	35,929,125	30,082,672	--	--	400,441,081	60
911,098,372	175,041,740	279,995,723	747,348,396	269,293,797	15,210,744	17,710,464	3,397,154,699	61
873,828,297	169,638,539	272,355,007	669,311,368	261,146,081	14,366,836	15,911,163	3,050,428,547	62

TABLE 5. Revised Statistics of the Mineral Production of Canada, by Provinces, 1963

No.		Newfound- land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Metals						
1	Antimony.....	lb.	—	—	—	—
2		\$	—	—	—	—
3	Bismuth	lb.	—	—	—	201,961
4		\$	—	—	—	355,197
5	Cadmium	lb.	—	—	—	43,546
6		\$	—	—	—	104,510
7	Calcium.....	lb.	—	—	—	—
8		\$	—	—	—	—
9	Cobalt.....	lb.	—	—	—	90,289
10		\$	—	—	—	175,160
11	Columbium (Cb ₂ O ₃).....	lb.	—	—	—	1,393,444
12		\$	—	—	—	1,300,009
13	Copper.....	lb.	28,024,753	—	474,268	17,927,959
14		\$	8,827,797	—	149,394	5,647,307
15	Gold.....	oz.	12,318	—	—	1,128
16		\$	465,004	—	—	42,582
17	Indium.....	—	—	—	—	—
18		—	—	—	—	—
19	Iron ore	ton	9,683,004	—	—	—
20		\$	99,601,987	—	—	—
21	Iron, remelt.....	—	—	—	—	—
22		\$	—	—	—	9,246,713
23	Lead	lb.	46,784,221	—	2,800,480	3,566,150
24		\$	5,146,264	—	308,053	392,277
25	Magnesium	lb.	—	—	—	—
26		\$	—	—	—	—
27	Molybdenum	lb.	—	—	—	—
28		\$	—	—	—	833,867
29	Nickel.....	lb.	—	—	—	—
30		\$	—	—	—	1,344,004
31	Platinum group.....	oz.	—	—	—	—
32		\$	—	—	—	5,011,649
33	Selenium	lb.	—	—	—	—
34		\$	—	—	—	4,209,785
35	Silver	oz.	981,005	—	423,189	332,472
36		\$	1,357,711	—	585,694	460,141
37	Tellurium	lb.	—	—	—	—
38		\$	—	—	—	6,147,235
39	Thorium.....	—	—	—	—	64,590
40		—	—	—	—	419,835
41	Tin.....	lb.	—	—	—	—
42		\$	—	—	—	—
43	Titanium ore.....	—	—	—	—	—
44		—	—	—	—	—
45	Tungsten (WO ₃)	—	—	—	—	—
46		—	—	—	—	—
47	Uranium (U ₃ O ₈).....	lb.	—	—	—	—
48		\$	—	—	—	—
49	Zinc.....	lb.	68,970,834	—	—	21,228,005
50		\$	8,814,473	—	—	2,712,939
51	Total metals	\$	124,213,236	—	1,043,141	9,255,246
Non-metallics						
52	Arsenious oxide.....	lb.	—	—	—	—
53		\$	—	—	—	—
54	Asbestos.....	ton	20,390	—	—	—
55		\$	3,320,064	—	—	1,158,210
56	Barite	ton	—	—	161,007	—
57		\$	—	—	1,572,063	—
58	Diatomite	ton	—	—	—	—
59		\$	—	—	—	—
60	Feldspar	ton	—	—	—	—
61		\$	—	—	—	8,608
62	Fluorspar	—	—	—	—	—
63		\$	1,976,006	—	—	197,031
64	Gem stones.....	lb.	—	—	—	—
65		\$	—	—	—	—
66	Grindstone	ton	—	—	—	10
67		\$	—	—	—	2,000

TABLE 5. Revised Statistics of the Mineral Production of Canada, by Provinces, 1963

Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Yukon	Northwest Territories	Canada	No.
—	—	—	—	1,601,253	—	—	1,601,253	1
—	—	—	—	624,489	—	—	624,489	2
65	—	—	—	157,099	—	—	359,125	3
146	—	—	—	348,760	—	—	704,103	4
—	183,110	132,940	—	1,980,004	135,885	—	2,475,485	5
—	439,464	319,056	—	4,752,010	326,124	—	5,941,164	6
98,673	—	—	—	—	—	—	98,673	7
117,247	—	—	—	—	—	—	117,247	8
2,156,732	777,944	—	—	—	—	—	3,024,965	9
4,409,262	1,537,747	—	—	—	—	—	6,122,169	10
—	—	—	—	—	—	—	1,393,444	11
—	—	—	—	—	—	—	1,300,009	12
357,919,536	33,960,338	59,542,946	—	124,435,417	—	32,638	905,117,779	13
112,048,454	10,697,506	18,756,028	—	39,184,967	—	10,281	284,403,710	14
2,338,854	53,084	64,813	132	159,473	55,211	400,885	4,003,127	15
88,291,739	2,003,921	2,446,691	4,983	6,020,106	2,084,215	15,133,409	151,118,045	16
—	—	—	—	..	—	—	..	17
—	—	—	—	..	—	—	..	18
6,749,817	—	—	—	2,060,241	—	—	30,143,649	19
70,033,690	—	—	—	20,746,424	—	—	313,182,963	20
—	—	—	—	—	—	—	..	21
—	—	—	—	—	—	—	9,246,713	22
3,077,814	5,474,570	—	—	314,974,034	16,978,607	—	402,329,071	23
338,560	602,203	—	—	34,647,144	1,867,647	—	44,256,199	24
17,810,348	—	—	—	—	—	—	17,810,348	25
5,357,816	—	—	—	—	—	—	5,357,816	26
—	—	—	—	—	—	—	833,867	27
—	—	—	—	—	—	—	1,344,004	28
298,178,570	127,170,104	—	—	3,699,402	—	—	434,059,725	29
246,252,488	106,822,887	—	—	3,107,498	—	—	360,392,658	30
357,649	..	—	—	2	—	—	357,651	31
22,585,055	..	—	—	150	—	—	22,585,205	32
95,100	15,436	72,194	—	—	—	—	468,772	33
461,235	74,865	350,141	—	—	—	—	2,273,545	34
9,601,821	766,976	746,683	12	6,451,158	6,106,037	81,206	29,932,003	35
13,288,643	1,061,495	1,033,409	17	8,928,402	8,450,755	112,389	41,425,891	36
7,705	796	3,751	—	—	—	—	76,842	37
50,082	5,174	24,382	—	—	—	—	499,473	38
..	—	—	—	—	—	—	..	39
..	—	—	—	—	—	—	..	40
—	—	—	—	927,062	—	—	927,062	41
—	—	—	—	648,943	—	—	648,943	42
—	—	—	—	—	—	—	—	43
—	—	—	—	—	—	—	—	44
—	—	—	—	—	—	—	..	45
—	—	—	—	—	—	—	..	46
12,770,421	—	3,932,645	—	—	—	—	16,703,066	47
102,951,146	—	33,957,973	—	—	—	—	136,909,119	48
132,939,970	92,784,466	66,639,117	—	402,863,104	11,850,706	—	947,444,960	49
16,989,728	11,857,855	8,516,479	—	51,485,905	1,514,520	—	121,083,466	50
683,175,291	135,103,117	65,404,159	5,000	170,494,798	14,243,261	15,256,079	1,509,536,931	51
187,450	—	—	—	—	—	—	187,450	52
7,498	—	—	—	—	—	—	7,498	53
33,715	—	—	—	63,215	—	—	1,275,530	54
5,372,645	—	—	—	11,681,337	—	—	136,956,180	55
—	—	—	—	12,496	—	—	173,503	56
—	—	—	—	121,056	—	—	1,693,119	57
—	—	—	—	798	—	—	798	58
—	—	—	—	26,830	—	—	26,830	59
—	—	—	—	—	—	—	8,608	60
—	—	—	—	—	—	—	197,031	61
—	—	—	—	—	—	—	..	62
—	—	—	—	—	—	—	1,976,006	63
—	—	—	—	16,000	—	—	16,000	64
—	—	—	—	15,529	—	—	15,529	65
—	—	—	—	—	—	—	10	66
—	—	—	—	—	—	—	2,000	67

TABLE 5. Revised Statistics of the Mineral Production of Canada, by Provinces, 1963 - Concluded

No.		Newfound- land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec
Non-metallics - Concluded						
1	Gypsum	232, 259	-	4, 910, 536	80, 544	-
2	\$	766, 098	-	8, 228, 893	139, 497	-
3	Helium	-	-	-	-	-
4	\$	-	-	-	-	-
5	Iron oxide	-	-	-	-	978
6	\$	-	-	-	-	74, 505
7	Lithia.....	-	-	-	-	644, 354
8	\$	-	-	-	-	682, 029
9	Magnesitic dolomite, brucite	-	-	-	-	...
10	\$	-	-	-	-	3, 439, 890
11	Mica	-	-	-	-	840, 856
12	\$	-	-	-	-	39, 170
13	Nepheline syenite	-	-	-	-	-
14	\$	-	-	-	-	-
15	Nitrogen.....	-	-	-	-	-
16	\$	-	-	-	-	-
17	Peat moss	-	-	1, 475	31, 643	81, 162
18	\$	-	-	69, 859	1, 066, 555	2, 210, 613
19	Potash (K ₂ O).....	-	-	-	-	-
20	\$	-	-	-	-	-
21	Pozzolan	-	-	-	-	-
22	\$	-	-	-	-	-
23	Pyrite, pyrrhotite	-	-	-	-	...
24	\$	-	-	-	-	1, 632, 625
25	Quartz	-	-	2, 861	-	401, 063
26	\$	-	-	43, 000	-	2, 266, 273
27	Salt.....	-	-	356, 902	-	-
28	\$	-	-	4, 043, 804	-	-
29	Soapstone, talc, pyrophyllite	31, 783	-	-	-	15, 564
30	\$	476, 745	-	-	-	173, 147
31	Sodium sulphate	-	-	-	-	-
32	\$	-	-	-	-	-
33	Sulphur, in smelter gas	-	-	-	-	...
34	\$	-	-	-	16, 398	196, 690
35	Sulphur, elemental.....	-	-	-	-	-
36	\$	-	-	-	-	-
37	Titanium dioxide, etc.....	-	-	-	-	...
38	\$	-	-	-	-	13, 806, 608
39	Total non-metallics	6, 538, 913	-	13, 957, 619	1, 224, 450	141, 300, 715
Fuels						
40	Coal	-	-	4, 554, 944	886, 336	-
41	\$	-	-	44, 693, 053	7, 232, 170	-
42	Natural gas	-	-	-	103, 524	-
43	\$	-	-	-	109, 520	-
44	Natural gas, by-products.....	-	-	-	-	-
45	\$	-	-	-	-	-
46	Petroleum crude	-	-	-	7, 381	-
47	\$	-	-	-	10, 333	-
48	Total fuels	-	-	44, 693, 053	7, 352, 023	-
Structural materials						
49	Clay products	92, 120	-	1, 337, 430	623, 166	6, 852, 660
50	Cement.....	92, 460	-	-	161, 833	2, 330, 641
51	\$	1, 848, 347	-	-	2, 658, 949	36, 938, 775
52	Lime.....	-	-	-	16, 919	358, 201
53	\$	-	-	-	382, 713	4, 586, 493
54	Sand and gravel	4, 640, 993	629, 475	6, 633, 581	4, 417, 611	42, 375, 911
55	\$	4, 276, 626	573, 345	4, 086, 794	2, 720, 159	20, 186, 642
56	Stone	382, 260	225, 000	457, 525	4, 416, 799	30, 003, 825
57	\$	827, 465	225, 000	1, 199, 580	4, 126, 713	39, 406, 180
58	Total structural materials	7, 044, 558	798, 345	6, 623, 804	10, 511, 700	107, 970, 750
59	Grand totals, 1963	137, 796, 707	798, 345	66, 317, 617	28, 343, 419	540, 615, 068
60	Grand totals, 1962	101, 858, 960	677, 906	61, 651, 093	21, 811, 575	519, 453, 166

TABLE 5. Revised Statistics of the Mineral Production of Canada, by Provinces, 1963 - Concluded

Ontario	Manitoba	Saskat- chewan	Alberta	British- Columbia	Yukon	Northwest Territories	Canada	No.
439,206	131,767	—	—	160,954	—	—	5,955,266	1
1,225,301	395,301	—	—	482,862	—	—	11,237,952	2
—	—	..	—	—	—	—	..	3
—	—	..	—	—	—	—	..	4
—	—	—	—	—	—	—	978	5
—	—	—	—	—	—	—	74,505	6
—	—	—	—	—	—	—	644,354	7
—	—	—	—	—	—	—	682,029	8
—	—	—	—	—	—	—	..	9
342,185	—	—	—	—	—	—	3,439,890	10
5,114	—	—	—	—	—	—	1,183,041	11
254,000	—	—	—	—	—	—	44,284	12
2,699,202	—	—	—	—	—	—	254,000	13
—	—	..	—	—	—	—	2,699,202	14
—	—	—	—	—	—	—	..	15
30,659	27,195	—	780	70,397	—	—	243,311	17
610,784	1,070,850	—	27,906	3,623,661	—	—	8,680,228	18
—	—	626,860	—	—	—	—	626,860	19
—	—	22,500,000	—	—	—	—	22,500,000	20
—	—	—	—	..	—	—	..	21
—	—	—	—	17,994	—	—	17,994	22
—	—	—	—	..	—	—	476,438	23
—	—	—	—	11,004	—	—	1,643,629	24
952,166	279,641	160,398	—	40,483	—	—	1,836,612	25
644,287	468,867	86,615	—	178,937	—	—	3,687,979	26
3,187,491	24,883	58,301	96,417	—	—	—	3,721,994	27
14,793,161	618,533	1,364,490	1,496,577	—	—	—	22,316,565	28
6,903	—	—	—	—	—	—	54,250	29
107,986	—	—	—	—	—	—	757,878	30
—	—	256,914	—	—	—	—	256,914	31
—	—	4,121,114	—	—	—	—	4,121,114	32
—	—	—	—	..	—	—	353,243	33
1,406,694	—	—	—	1,868,399	—	—	3,488,181	34
—	—	..	—	..	—	—	1,249,889	35
53,744	14,777	589	11,516,478	1,794,594	—	—	13,380,182	36
—	—	—	—	—	—	—	..	37
—	—	—	—	—	—	—	13,806,608	38
26,926,416	2,568,328	28,072,808	13,040,961	19,822,203	—	—	253,452,413	39
—	—	1,873,556	2,289,943	962,684	8,231	—	10,575,694	40
—	—	3,713,988	9,864,890	6,128,805	123,675	—	71,756,581	41
15,920,055	—	39,936,193	943,354,973	118,058,994	—	51,478	1,117,425,217	42
6,049,621	—	2,364,223	129,428,302	12,495,718	—	21,330	150,468,714	43
—	—	..	..	..	—	—	..	44
—	—	1,875,948	66,679,857	2,441,990	—	—	70,997,795	45
1,205,376	3,771,163	71,303,893	168,214,054	12,528,681	—	631,229	257,661,777	46
3,459,429	9,188,635	160,226,978	416,844,350	24,841,518	—	633,754	615,204,997	47
9,509,050	9,188,635	168,181,137	622,817,399	45,908,031	123,675	655,084	908,428,087	48
21,819,687	594,072	1,044,721	3,452,835	2,337,603	—	—	38,154,294	49
2,552,665	455,325	217,545	727,122	476,071	—	—	7,013,662	50
39,551,719	9,684,760	5,672,084	13,713,527	8,546,768	—	—	118,614,929	51
952,945	54,879	—	54,826	12,961	—	—	1,450,731	52
11,434,223	908,852	—	970,673	221,166	—	—	18,504,220	53
80,259,750	9,653,471	7,368,017	16,139,744	17,451,950	—	—	189,570,503	54
56,338,204	6,947,039	3,980,098	14,894,547	9,850,800	—	—	123,854,254	55
20,402,614	3,693,144	—	138,894	2,935,268	—	—	62,655,329	56
25,073,707	4,643,636	—	416,426	3,964,712	—	—	79,883,419	57
154,217,540	22,778,459	10,696,903	33,448,008	24,921,049	—	—	379,011,116	58
873,828,297	169,638,539	272,355,007	669,311,368	261,146,081	14,366,936	15,911,163	3,050,428,547	59
913,342,174	158,932,169	240,653,502	566,502,703	235,428,135	13,137,730	17,537,066	2,850,986,179	60

TABLE 6. ALUMINUM

Year	Production of aluminum ingots	Consumption of aluminum ingots	Exports		Imports of ingots, slabs and blooms
			Primary forms	Semi-fabricated forms	
tons of 2,000 pounds					
1954	557,897	80,355	468,494	17,447	115
1955	612,453	91,522	506,879	16,658	99
1956	620,321	91,869	508,994	7,078	1,405
1957	556,715	77,984	478,670	12,593	2,122
1958	634,102	101,886	482,927	17,390	11,257
1959	593,630	88,697	505,342	25,158	854
1960	762,012	113,000	552,155	30,123	500
1961	663,173	127,000	487,034	22,969	636
1962	690,297	..	576,206	22,643	3,855
1963	719,390	..	635,187	13,252	1,954
1964	842,640	..	627,992	21,843	3,991

Note: Output of aluminum metal in Canada is not included in the mineral production figures for the country. Although Canada has some of the world's largest aluminum smelters, all of the ores for use in same are imported.

TABLE 7. ANTIMONY

Year	Total production in all forms ¹		Production, refined metal	Imports		Consumption, refined metal
	Pounds	Value		Refined metal or regulus		
				Pounds	Value	Pounds
		\$			\$	
1954	1,302,333	349,249	—	2,043,544	490,782	1,518,000
1955	2,021,726	563,345	—	1,359,163	356,340	1,465,000
1956	2,140,432	687,527	—	1,803,630	353,277	1,477,000
1957	1,360,731	370,442	—	1,794,846	349,465	1,400,000
1958	858,633	284,208	—	808,053	140,796	1,027,000
1959	1,657,797	540,276	—	1,170,796	230,895	..
1960	1,651,786	538,482	—	843,794	158,266	..
1961	1,331,297	469,948	—	832,547	170,190	..
1962	1,931,397	748,223	—	1,275,917	231,587	..
1963	1,601,253	624,489	—	1,036,235	183,625	..
1964	1,718,634	866,200	—	..	..	..

¹Since 1945 the figures represent antimony content of antimonial lead produced at primary smelter. Production includes antimony in flue dust and slag.

TABLE 8. BISMUTH

Year	Total production in all forms		Production refined metal	Imports refined metal ¹		Consumption, refined metal ²
	Pounds	Value		Pounds	Refined metal	
					Pounds	Value	Pounds
		\$			\$	
1954	258,675	572,183	225,352 ³	—	—	74,000
1955	265,896	572,362	160,766 ³	5,908	11,888	92,000
1956	285,861	544,900	156,000 ³	24,025	49,143	131,000
1957	319,941	584,917	146,000 ³	9,614	20,287	55,000
1958	412,792	771,267	172,000 ³	12,857	26,178	39,900
1959	334,736	590,212	182,000 ³	13,002	26,829	39,700
1960	423,827	762,048	248,000 ³	7,648	15,042	44,700
1961	478,118	957,625	305,000 ³	17,983	24,567	42,800
1962	425,102	839,912	230,000 ³	57,063	38,494	..
1963	359,125	704,103	178,000 ³	6,383	8,548	..
1964	387,213	839,725	224,000 ³	..	..	..

¹ Includes bismuth residues.

² Revised from reports of consumers.

³ Includes some bismuth from foreign ores.

TABLE 9. CADMIUM

Year	Production in all forms		Consumption refined metal	Exports, refined metal	
	Pounds	Value		Pounds	Value
		\$			\$
1954	1,086,780	1,847,526	226,000	776,391	1,208,355
1955	1,919,081	3,262,439	347,000	1,562,337	2,275,472
1956	2,339,421	3,977,016	286,000	1,922,685	2,824,485
1957	2,368,130	4,025,821	234,000	1,941,680	2,918,645
1958	1,756,050	2,669,195	344,000	1,263,617	1,733,135
1959	2,160,363	2,765,265	993,000	1,979,638	2,244,293
1960	2,357,497	3,347,646	737,000	2,056,333	2,627,431
1961	2,221,950	3,555,128	...	1,901,962	2,339,606
1962	2,609,973	4,730,957	...	2,340,289	3,615,435
1963	2,475,485	5,941,164	...	1,939,110	4,457,114
1964	2,800,761	8,950,213	...	1,623,679	5,211,395

TABLE 10. CHROMITE

Year	Production of chrome ore		Imports of chrome ore	
	Tons	Value	Tons	Value
		\$		\$
1954	—	—	37,516	571,984
1955	—	—	51,854	971,522
1956	—	—	64,965	1,529,411
1957	—	—	111,453	2,751,372
1958	—	—	38,137	812,286
1959	—	—	48,678	1,525,438
1960	—	—	59,023	1,521,812
1961	—	—	71,268	1,908,920
1962	—	—	71,969	2,122,407
1963	—	—	49,654	1,688,568
1964	—	—	23,791	1,611,000

TABLE 11. COBALT

Year	Total production in all forms ¹		Imports, cobalt ore		Exports			
					Cobalt contained in ores		Metallic cobalt and alloys	
	Pounds	Value	Tons	Value	Pounds	Value	Pounds	Value
		\$		\$		\$		\$
1954	2,252,965	5,912,997	5	1,321	3,300	5,693	1,143,965	3,800,715
1955	3,318,637	8,563,700	19	10,898	—	—	1,555,345	3,517,673
1956	3,516,670	9,065,493	10	1,031	16,000	15,092	1,444,227	3,586,111
1957	3,922,649	7,784,423	1	563	15,100	16,477	2,168,142	4,156,031
1958	2,710,429	5,308,298	—	—	—	—	1,034,379	1,918,186
1959	3,150,027	5,954,916	—	—	—	—	683,603	1,219,787
1960	3,568,811	6,763,016	—	—	—	—	846,167	1,375,856
1961	3,182,897	4,751,543	—	—	—	—	603,931	1,039,073
1962	3,481,922	6,345,205	—	—	—	—	542,565	919,083
1963	3,024,965	6,122,169	1	288	...	...	739,227	1,214,975
1964	3,196,322	6,484,255	—	—	...	...	593,607	1,071,497

¹ From Canadian ores only.

COPPER

TABLE 12. Production of Primary Copper in All Forms¹

Year	Newfoundland		Nova Scotia		New Brunswick		Quebec	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$		\$
1955.....	3,052	2,250,672	1,027	757,758	36	26,290	101,021	74,502,645
1956.....	3,108	2,574,274	404	334,704	6	5,272	122,300	101,288,640
1957.....	4,535	2,625,986	—	—	5,738	3,322,400	112,409	65,084,941
1958.....	14,751	7,499,372	—	—	328	166,683	131,445	66,826,788
1959.....	14,989	8,876,570	—	—	—	—	134,912	79,894,820
1960.....	13,863	8,398,362	—	—	—	—	157,470	95,395,158
1961.....	15,752	9,195,817	—	—	—	—	149,007	86,990,202
1962.....	17,308	10,731,154	204	126,300	3,674	2,277,864	147,431	91,407,164
1963.....	14,012	8,827,797	237	149,394	8,964	5,647,307	141,400	89,061,976
1964.....	14,505	9,689,729	284	189,756	10,523	7,029,479	160,288	107,072,207
	Ontario		Manitoba		Saskatchewan			
	Tons	Value	Tons	Value	Tons	Value		
		\$		\$		\$		\$
1955.....	146,407	107,215,943	19,379	14,438,505	32,945	24,297,063		
1956.....	156,271	128,552,450	17,973	14,890,139	33,116	27,426,903		
1957.....	171,703	98,488,877	18,551	10,686,798	30,597	17,715,571		
1958.....	142,035	71,267,895	12,601	6,383,403	37,510	19,070,139		
1959.....	188,273	110,547,037	12,945	7,666,147	35,536	21,044,574		
1960.....	206,272	123,750,235	12,793	7,749,877	31,785	19,255,437		
1961.....	211,647	122,421,860	12,454	7,271,252	33,479	19,545,019		
1962.....	188,995	116,347,723	12,738	7,897,714	32,017	19,850,465		
1963.....	178,960	112,048,454	16,980	10,697,506	29,772	18,756,028		
1964.....	201,031	132,519,010	29,192	19,500,052	20,688	13,819,624		
	British Columbia		Yukon		Northwest Territories		Canada	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$		\$
1955.....	22,127	16,267,579	—	—	—	—	325,994	239,756,455
1956.....	21,682	17,885,709	—	—	—	—	354,860	292,958,091
1957.....	15,411	8,877,743	—	—	165	95,672	359,109	206,897,988
1958.....	6,010	2,995,902	—	—	434	220,748	345,114	174,430,930
1959.....	8,121	4,781,508	—	—	493	292,157	395,289	233,102,813
1960.....	16,559	9,982,552	—	—	520	315,016	439,262	264,646,637
1961.....	15,845	9,205,938	440	257,098	463	270,440	439,088	255,157,626
1962.....	54,490	33,766,394	214	132,990	324	194,928	457,385	282,732,696
1963.....	62,218	39,184,967	—	—	16	10,281	452,559	284,403,710
1964.....	57,506	38,413,747	—	—	—	—	494,017	328,233,604

¹Blister copper, plus recoverable copper in ores and matte exported.

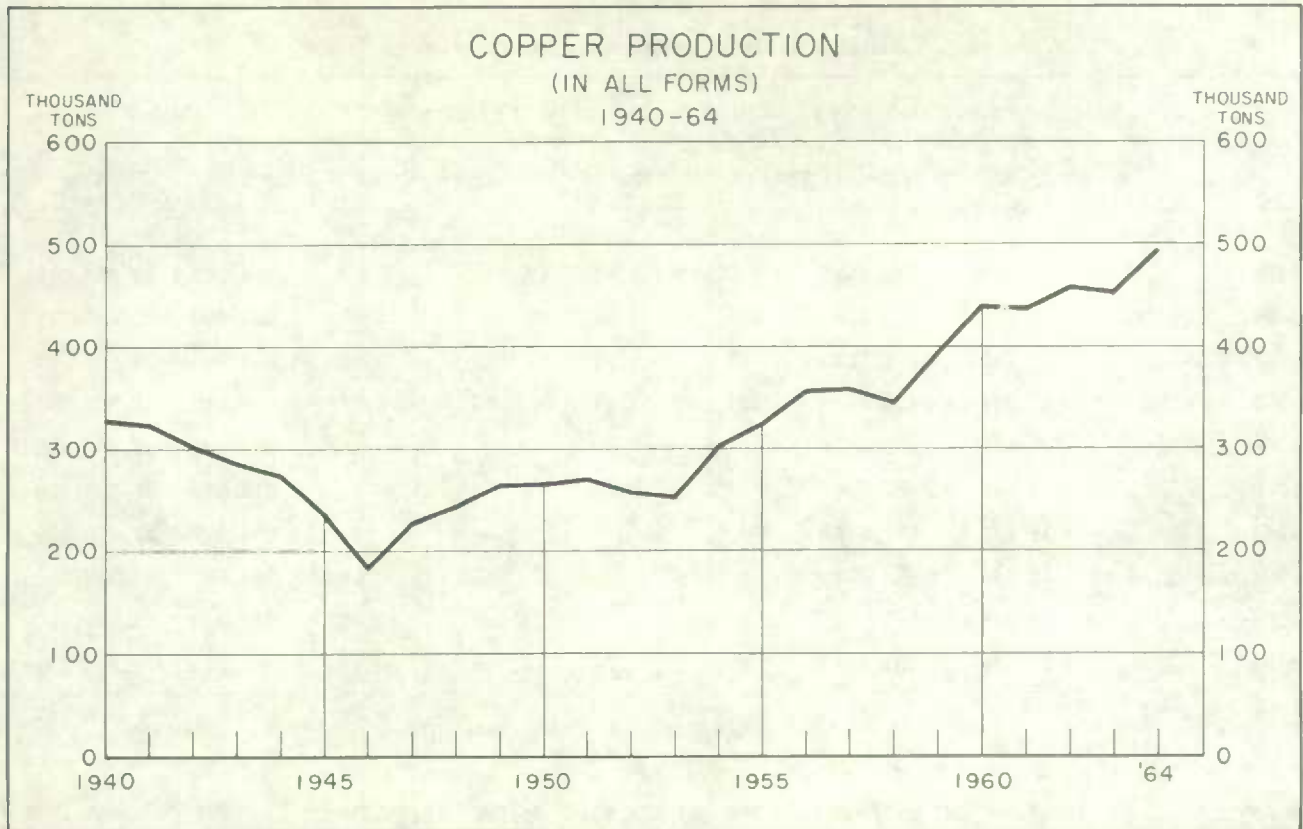


TABLE 13. Production of Refined Copper, Consumption, Imports and Exports

Year	Production	Domestic consumption	Exports, refinery shapes	
			Imports, refinery shapes	Exports, refinery shapes
tons of 2,000 pounds				
1955	288,997	139,280	153,200	35
1956	328,458	145,285	174,844	2,541
1957	323,540	118,223	198,794	4,175
1958	329,239	122,893	224,638	1
1959	365,366	129,973	222,437	105
1960	417,029	117,637	278,066	25
1961	406,359	141,808	266,247	3
1962	382,868	151,526	223,043	147
1963	378,911	169,751	214,987	6,549
1964	408,509	202,228	224,273	6,770

TABLE 14. Exports of Primary Copper

Year	Copper contained in ore, matte, etc.		Copper, refinery shapes	
	Tons	Value	Tons	Value
		\$		\$
1955	42,565	28,563,092	153,199	109,649,603
1956	40,994	31,129,360	174,844	141,767,103
1957	46,548	24,201,622	198,794	124,941,474
1958	30,316	13,603,456	224,638	111,996,370
1959	32,070	17,017,395	222,437	130,246,946
1960	47,633	25,994,774	278,066	170,153,158
1961	42,894	18,635,983	266,247	154,409,513
1962	95,544	41,260,344	223,043	139,701,127
1963	92,930	44,630,977	214,987	136,798,100
1964	104,550	51,869,503	224,273	148,808,892

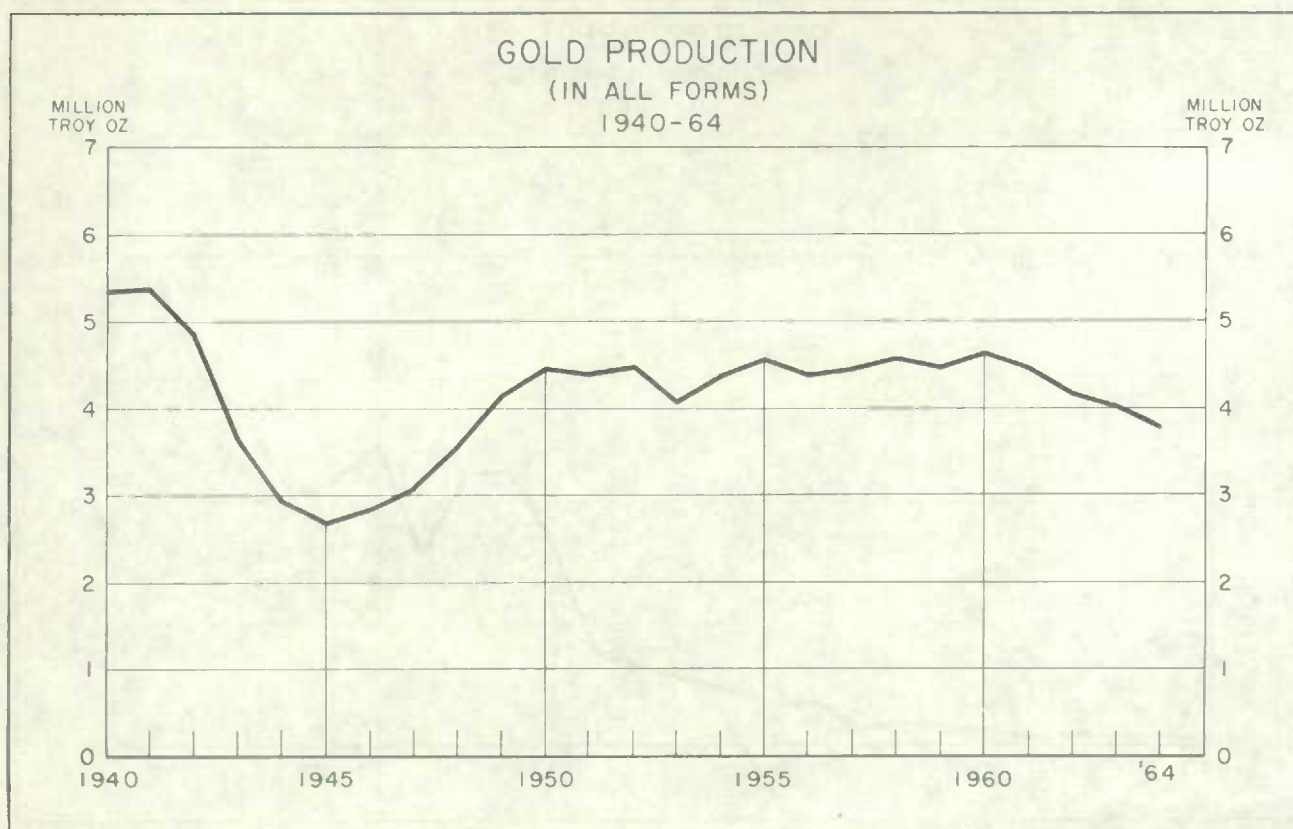
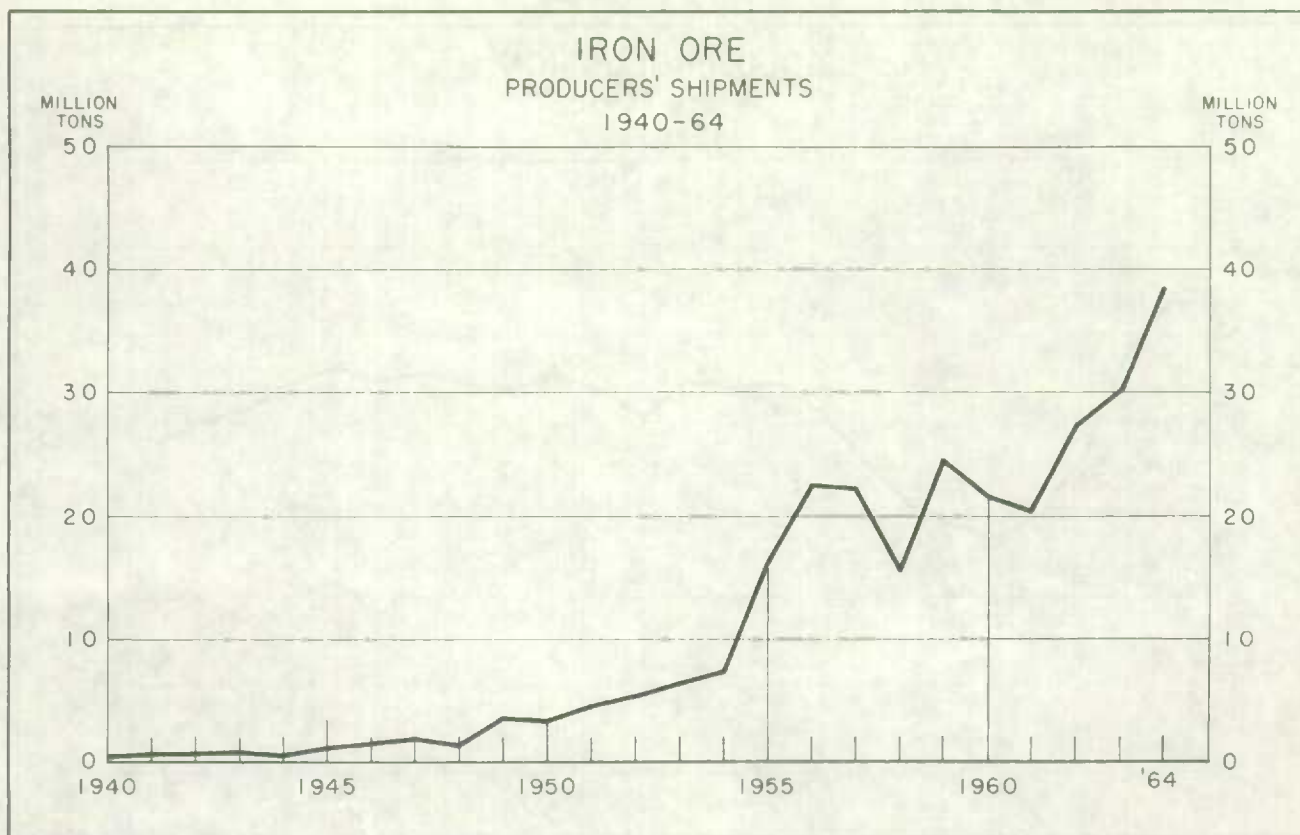


TABLE 16. IRON ORE

Year	Producers' shipments		Imports		Exports	
	Short tons	Value \$	Short tons	Value \$	Short tons	Value \$
1955.....	16, 283, 177	110, 435, 850	4, 538, 789	31, 563, 361	14, 568, 960	99, 814, 106
1956.....	22, 348, 278	160, 362, 118	5, 068, 861	38, 722, 103	20, 265, 370	144, 442, 550
1957.....	22, 272, 174	167, 221, 425	4, 539, 029	36, 386, 788	20, 129, 501	152, 281, 394
1958.....	15, 726, 323	126, 131, 181	3, 412, 977	28, 932, 053	13, 878, 272	107, 674, 258
1959.....	24, 488, 325	192, 666, 101	2, 801, 001	27, 128, 891	20, 778, 786	157, 814, 102
1960.....	21, 550, 830	175, 082, 523	5, 056, 348	48, 370, 303	18, 559, 400	151, 678, 119
1961.....	20, 359, 003	187, 950, 047	4, 628, 154	47, 433, 053	16, 652, 346	142, 565, 982
1962.....	27, 359, 676	263, 004, 217	5, 157, 397	56, 324, 342	24, 243, 249	220, 521, 995
1963.....	30, 143, 649	313, 182, 963	5, 964, 799	67, 872, 770	26, 717, 570	270, 948, 783
1964.....	38, 664, 583	402, 892, 490	5, 858, 949	67, 287, 000	34, 130, 545	356, 007, 314

**TABLE 17. LEAD**

Year	Production of primary lead in all forms ¹		Production, refined lead ²	Exports				Consumption, refined lead
	Tons	Value		Lead contained in ore		Pig lead		
			Tons	Value	Tons	Value	Tons	Value	Tons
1955	202,762	58,314,500	148,811	58,164	15,034,498	92,704	22,078,426	66,222
1956	188,854	58,582,651	147,865	49,974	13,547,850	79,633	21,451,906	65,676
1957	181,484	50,670,407	142,935	44,650	10,623,417	84,541	18,862,323	50,083
1958	186,680	42,413,805	132,987	54,081	10,677,273	92,351	15,376,517	47,746
1959	186,696	39,616,835	135,296	53,726	9,814,916	92,252	15,183,277	49,414
1960	205,650	43,926,888	158,510	51,336	9,086,739	96,449	15,958,094	44,450
1961	230,435	47,054,765	171,833	70,967	9,131,987	117,637	18,189,953	49,673
1962	215,329	42,721,341	152,217	59,495	7,855,245	125,802	17,726,724	52,663
1963	201,165	44,256,199	155,000	53,756	7,206,741	97,144	15,546,270	54,370
1964	200,385	53,863,546	151,372	80,357	14,262,739	95,867	21,858,039	58,116

¹ Lead in base bullion, plus recoverable lead in ores exported.

² Includes lead from foreign ores.

TABLE 18. Production of Lead in All Forms, by Provinces

Year	Newfoundland		Nova Scotia		New Brunswick		Quebec		Ontario	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$		\$		\$
1955.....	17,855	5,135,085	1,990	572,213	766	220,403	5,608	1,612,862	1,927	554,148
1956.....	22,788	7,068,813	711	220,521	474	147,204	2,873	891,145	1,505	466,876
1957.....	24,512	6,843,665	—	—	1,170	326,663	2,709	756,324	506	141,354
1958.....	23,980	5,448,339	—	—	94	21,377	3,150	715,620	1,256	285,502
1959.....	22,457	4,765,328	—	—	—	—	2,910	617,412	1,611	341,902
1960.....	24,022	5,131,091	—	—	—	—	2,669	570,195	831	177,490
1961.....	21,968	4,485,938	—	—	—	—	3,392	692,694	835	170,562
1962.....	25,330	5,025,529	2,682	532,047	1,879	372,865	4,716	935,656	1,144	226,879
1963.....	23,392	5,146,264	1,400	308,053	1,783	392,277	4,337	954,051	1,539	338,560
1964.....	24,368	6,550,105	1,576	423,568	22,377	6,014,989	3,279	881,376	1,988	534,437

Year	Manitoba		British Columbia		Yukon		Canada	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$		\$
1955.....	—	—	161,492	46,445,214	13,124	3,774,575	202,762	58,314,500
1956.....	—	—	147,701	45,816,877	12,802	3,971,215	188,854	58,582,651
1957.....	—	—	140,094	39,114,378	12,493	3,488,023	181,484	50,670,407
1958.....	—	—	147,417	33,493,047	10,783	2,449,920	186,680	42,413,805
1959.....	—	—	148,922	31,601,233	10,796	2,290,960	186,696	39,616,835
1960.....	1,037	221,574	166,947	35,659,900	10,144	2,166,638	205,650	43,926,888
1961.....	3,054	623,558	192,800	39,369,815	8,385	1,712,198	230,435	47,054,765
1962.....	3,792	752,357	167,641	33,260,028	8,145	1,615,980	215,329	42,721,341
1963.....	2,737	602,203	157,487	34,647,144	8,490	1,867,647	201,165	44,256,199
1964.....	1,329	357,182	134,160	36,062,150	9,463	2,543,803	200,385	53,863,546

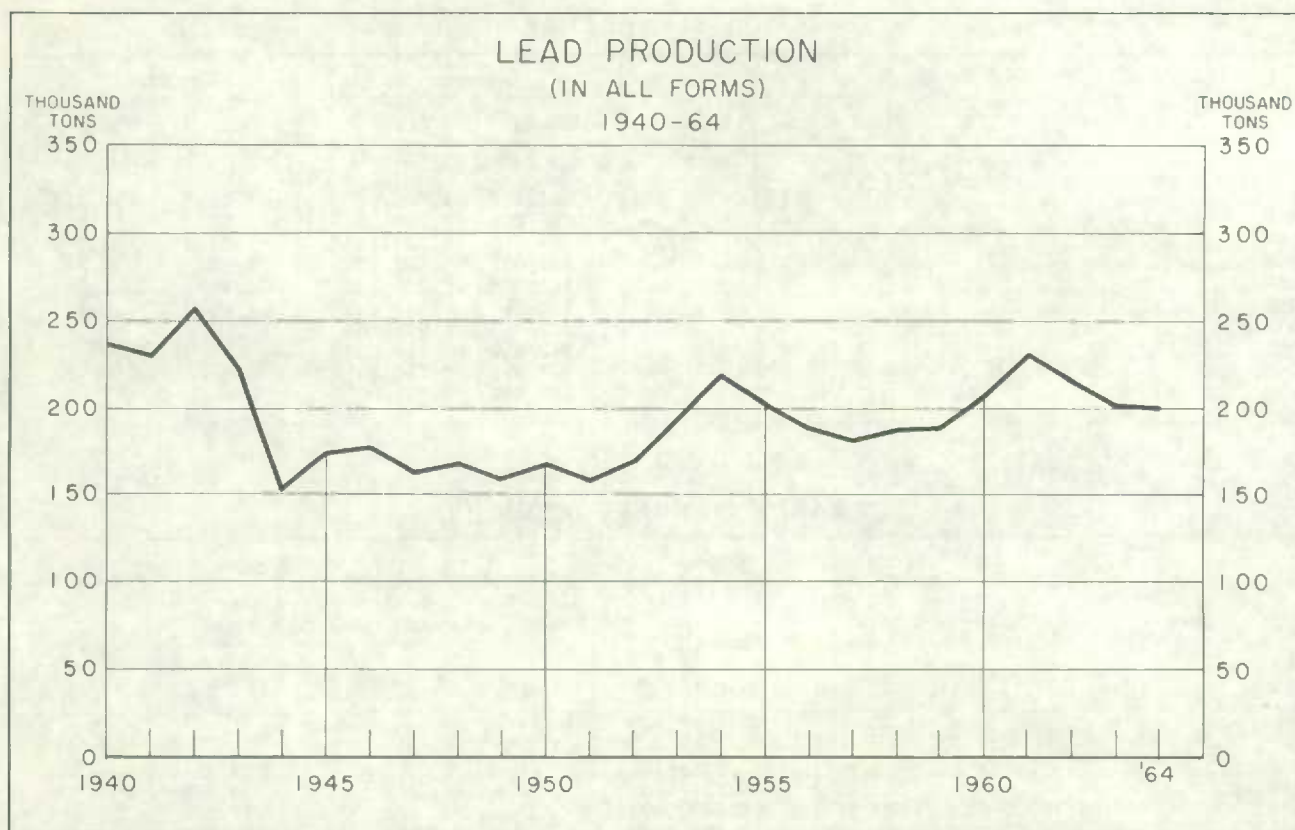


TABLE 19. MAGNESIUM

Year	Production of refined magnesium		Year	Production of refined magnesium	
	Pounds	Value		Pounds	Value
		\$			\$
1955.....	...	6,585,409 ¹	1960.....	14,577,138	4,313,987
1956.....	19,212,398	6,079,890	1961.....	15,270,618	4,307,570
1957.....	16,770,371	5,254,896	1962.....	17,631,310	4,821,823
1958.....	13,591,705	4,064,825	1963.....	17,810,348	5,357,816
1959.....	12,204,448	3,179,515	1964.....	18,041,900	5,592,989

¹ Includes calcium in 1955.

TABLE 20. MANGANESE ORE

Year	Production		Imports	
	Tons	Value	Tons	Value
		\$		\$
1955.....	—	—	175,282	7,338,269
1956.....	...	1,900	207,977	9,137,278
1957.....	—	—	131,318	7,519,746
1958.....	—	—	42,060	1,722,965
1959.....	—	—	118,455	5,017,112
1960.....	—	—	56,350	2,543,763
1961.....	—	—	76,016	3,465,313
1962.....	—	—	90,725	4,037,672
1963.....	—	—	106,891	3,821,972
1964.....	—	—	63,008 ¹	3,966,000

¹ Manganese in ore and concentrates.

TABLE 21. MERCURY

Year	Production		Imports		Exports	
	Pounds	Value	Pounds	Value	Pounds	Value
		\$		\$		\$
1955.....	75	250	555,526	1,930,987	3,781	15,131
1956.....	—	—	450,006	1,500,033	5,953	18,518
1957.....	—	—	400,710	1,167,967	1,425	3,749
1958.....	—	—	197,073	607,922	2,830	6,821
1959.....	—	—	141,219	363,678	10,458	25,072
1960.....	—	—	243,091	593,447	1,918	3,877
1961.....	—	—	312,913	773,164	..	..
1962.....	—	—	245,059	417,927	..	..
1963.....	—	—	447,592	1,022,265	..	..
1964.....	—	—	293,900	991,000	..	..

TABLE 22. MOLYBDENUM

Year	Shipments			Year	Shipments		
	Concentrates	Mo. content	Value		Concentrates	Mo. content	Value
	Tons	Pounds			Tons	Pounds	
			\$				\$
1955.....	762	833,506	823,954	1960.....	...	767,621	1,015,380
1956.....	705	842,263	955,828	1961.....	...	771,358	1,092,201
1957.....	633	783,739	1,166,557	1962.....	...	817,705	1,261,451
1958.....	...	888,264	1,152,838	1963.....	...	833,867	1,344,004
1959.....	...	748,566	940,596	1964.....	...	1,278,404	1,789,234

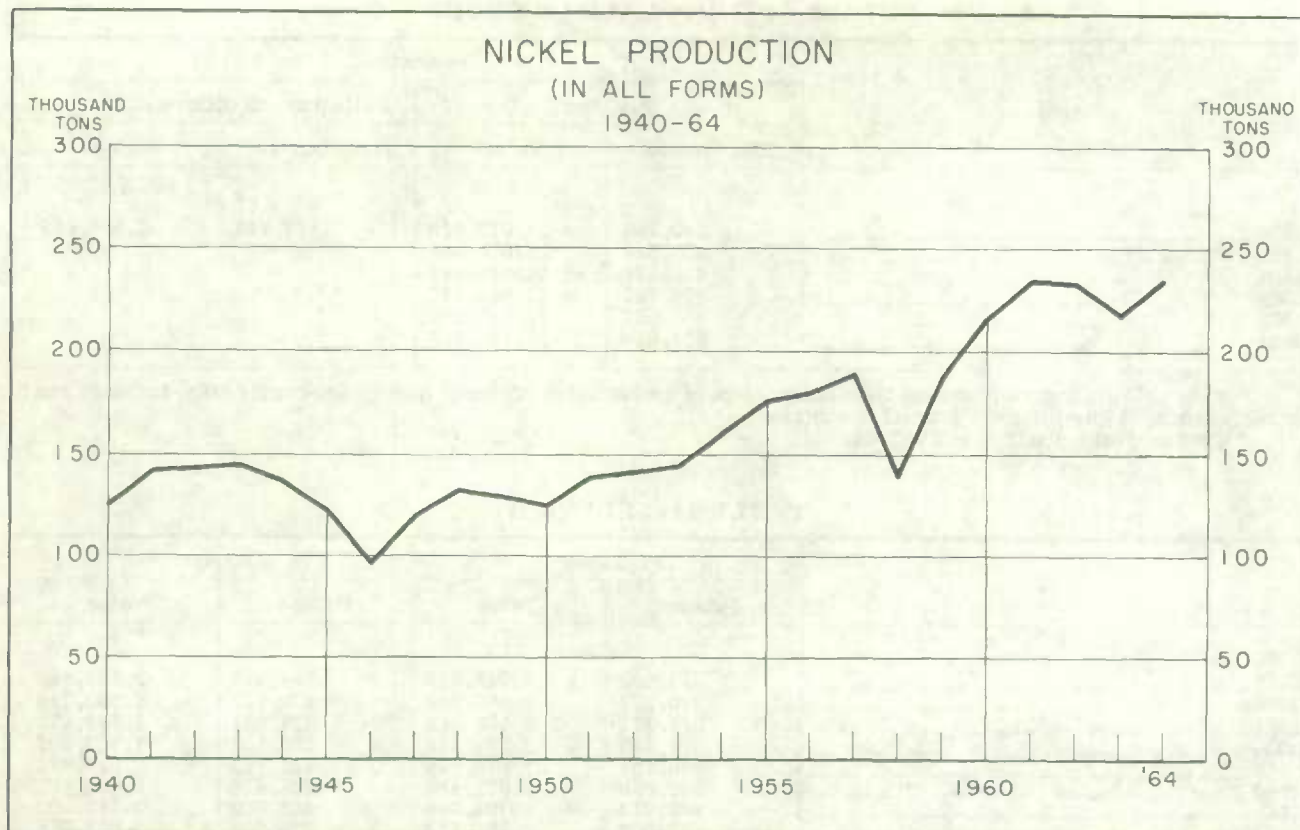


TABLE 23. NICKEL

Year	Production of primary nickel in all forms ¹		Exports			
			Nickel contained in ores, matte or speiss		Refined nickel	
	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$
1955	174,928	215,866,007	65,954	79,045,411	106,473	134,765,810
1956	178,515	222,204,860	70,715	86,112,992	104,356	135,044,662
1957	187,958	258,977,309	73,694	98,816,520	103,258	147,859,840
1958	139,559	194,142,019	67,659	92,495,804	85,168	118,786,031
1959	186,550	257,008,801	65,657	88,771,202	102,111	133,227,349
1960	214,506	295,640,279	73,910	99,778,767	108,350	142,549,495
1961	232,991	351,261,720	92,938	128,057,056	133,504	187,213,732
1962	232,242	383,784,622	77,410	117,356,387	121,712	185,517,667
1963	217,030	360,392,658	83,392	126,733,328	109,156	169,236,925
1964	232,875	381,996,719	74,766	114,248,806	128,330	192,293,746

¹ Refined nickel and nickel in oxide and salts, plus nickel in matte exported.

TABLE 24. METALS OF THE PLATINUM GROUP

Year	Production ¹			
	Platinum		Palladium, rhodium, iridium, etc.	
	Troy ounces	Value	Troy ounces	Value
		\$		\$
1955	170,494	14,747,732	214,252	8,321,633
1956	151,357	15,725,992	163,451	6,681,098
1957	199,565	17,835,124	216,582	7,896,209
1958	146,092	9,481,371	154,366	4,840,072

See footnote at end of table.

TABLE 24. METALS OF THE PLATINUM GROUP - Concluded

Year	Production ¹			
	Platinum		Palladium, rhodium, iridium, etc.	
	Troy ounces	Value	Troy ounces	Value
		\$		\$
1959.....	150,382	11,015,449	177,713	5,916,989
1960 platinum group.....	483,604	28,873,508	²	²
1961 " ".....	418,278	24,534,349	²	²
1962 " ".....	470,787	28,848,637	²	²
1963 " ".....	357,651	22,585,205	²	²
1964 " ".....	374,988	25,196,159	²	²

¹ From 1945 the figures represent the metal content of concentrates produced from nickel-copper ores. Includes small amounts produced intermittently from other sources.

² Combined with platinum in 1960-64.

TABLE 25. SELENIUM

Year	Production		Exports	
	Pounds	Value	Pounds	Value
		\$		\$
1955.....	427,109	3,203,319	334,215	2,555,689
1956.....	330,389	4,460,252	409,729	6,342,748
1957.....	321,392	3,535,312	228,051	2,739,020
1958.....	306,990	2,302,426	250,351	1,700,906
1959.....	368,107	2,576,749	325,712	1,846,484
1960.....	521,638	3,651,466	404,410	2,796,407
1961.....	430,612	2,798,978	345,800	2,251,502
1962.....	487,066	2,800,630	325,600	2,033,978
1963.....	468,772	2,273,545	445,700	2,421,738
1964.....	448,750	2,213,182	401,300	2,206,084

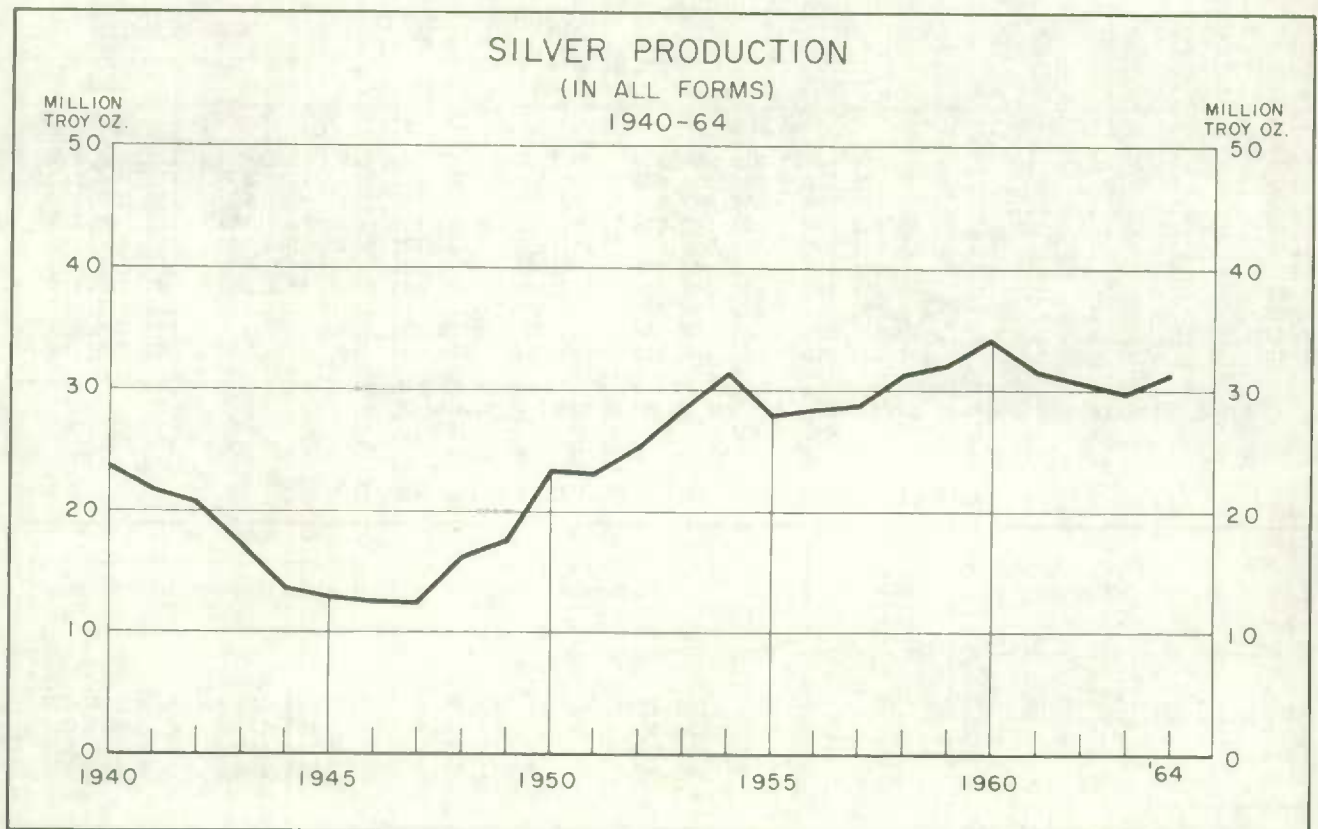


TABLE 26. SILVER

Year	Production of primary silver in all forms		Exports			
			Silver contained in ores, concentrates, etc.		Silver bullion	
	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value
		\$		\$		\$
1955.....	27,984,204	24,676,472	5,873,873	4,857,948	16,598,577	14,485,037
1956.....	28,431,847	25,497,681	6,924,414	5,871,438	14,341,753	12,821,395
1957.....	28,823,298	25,182,915	5,979,459	4,943,154	12,799,990	11,691,463
1958.....	31,163,470	27,053,007	5,098,788	4,274,488	16,026,550	14,279,596
1959.....	31,923,969	28,022,860	6,814,865	6,210,175	15,140,830	13,511,177
1960.....	34,016,829	30,244,363	8,897,402	8,255,194	12,761,063	11,315,369
1961.....	31,381,977	29,580,651	10,352,700	9,454,289	10,783,414	10,093,541
1962.....	30,422,972	35,442,781	8,801,332	9,104,528	9,445,094	10,941,526
1963.....	29,932,003	41,425,891	8,286,756	9,643,385	10,834,629	14,782,600
1964.....	31,111,943	43,556,719	9,478,317	10,759,530	10,583,439	14,723,011

TABLE 27. TELLURIUM

Year	Production		Year	Production	
	Pounds	Value		Pounds	Value
		\$			\$
1955.....	9,014	15,774	1960.....	44,682	156,388
1956.....	7,867	13,767	1961.....	77,609	376,404
1957.....	31,524	55,167	1962.....	58,725	352,350
1958.....	38,250	65,025	1963.....	78,842	499,473
1959.....	13,023	27,999	1964.....	79,789	508,830

TABLE 28. TIN

Year	Production of tin ¹		Imports in blocks, pigs		Consumption
	Tons	Value	Tons	Value	Tons
		\$		\$	
1955.....	248 ¹	408,030	4,836	8,813,544	4,502
1956.....	378 ¹	670,441	4,227	8,194,367	4,575
1957.....	355 ¹	580,342	4,654	8,538,741	4,057
1958.....	398	625,280	3,876	7,060,387	3,688
1959.....	374	630,004	4,886	9,181,672	...
1960.....	312	522,243	4,220	8,257,625	...
1961.....	520	727,578	3,948	8,893,408	...
1962.....	325	442,640	2,547	6,203,708	...
1963.....	464	648,943	4,696	11,685,053	...
1964.....	178	623,128	5,420	17,568,000	...

¹ Tin content of exported tin concentrates and in tin-lead alloy.

TABLE 29. TITANIUM ORE

Year	Production		Year	Production	
	Tons	Value		Tons	Value
		\$			\$
1955.....	1,464	10,634	1960.....	2,947	16,265
1956.....	2,310	16,561	1961.....	—	—
1957.....	10,770	97,075	1962.....	—	—
1958.....	—	—	1963.....	—	—
1959.....	26,777	129,565	1964.....	—	—

Note: Titanium ore shipped to other than Canadian smelters.

TABLE 30. TUNGSTEN

Year	Production of tungsten concentrates			Imports of tungsten-bearing ores	
	Crude	WO ₃ content	Value	Pounds	Value
	pounds		\$		\$
1955.....	3,255,100	1,942,770	5,508,437	91,800	126,137
1956.....	3,401,712	2,271,437	6,362,368	123,800	160,555
1957.....	2,994,000	1,921,483	5,279,275	230,700	147,711
1958.....	1,022,000	690,976	1,898,455	884,100	300,155
1959.....	—	—	—	840,000	405,508
1960.....	—	—	—	1,156,900	963,008
1961.....	—	—	—	501,800	403,327
1962.....	...	3,580	1,611	2,854,300	858,397
1963.....	..	..	..	645,500	194,577
1964.....	..	..	..	389,800	167,000

TABLE 31. URANIUM

Year	Producers' shipments (U ₃ O ₈)		Year	Producers' shipments (U ₃ O ₈)	
	Pounds	Value		Pounds	Value
		\$			\$
1955.....	...	26,031,604 ¹	1960.....	25,495,369	269,938,192
1956.....	4,561,060	45,732,145	1961.....	19,281,465	195,691,624
1957.....	13,271,414	136,304,364	1962.....	16,859,169	158,183,669
1958.....	26,805,232	279,538,471	1963.....	16,703,066	136,909,119
1959.....	31,784,189	331,143,043	1964.....	13,828,369	85,418,271

¹ Value of refinery products.

TABLE 32. ZINC

Year	Production, primary zinc in all forms		Production, refined zinc	Con- sumption, refined zinc	Exports			
					Zinc contained in ore		Refined zinc	
	Tons	Value	Tons	Tons	Tons	Value	Tons	Value
		\$				\$		\$
1955.....	433,357	118,306,466	256,542	66,653	190,585	22,988,483	213,837	47,107,303
1956.....	422,632	125,437,344	255,564	59,181	199,313	26,484,600	183,728	47,013,213
1957.....	413,741	100,042,533	247,316	52,714	187,141	20,790,076	202,007	43,481,140
1958.....	425,099	92,501,496	252,093	56,098	217,823	21,577,630	195,708	33,427,794
1959.....	396,008	96,942,663	255,306	65,998	181,084	20,918,286	179,552	33,731,652
1960.....	406,873	108,635,003	260,968	53,457	169,894	16,652,541	207,091	46,354,625
1961.....	416,004	104,749,879	268,007	63,327	199,322	16,387,259	208,272	42,036,754
1962.....	463,144	112,080,981	280,159	70,815	242,457	19,228,728	210,723	40,775,571
1963.....	473,722	121,083,466	284,021	79,311	213,044	18,194,079	200,002	41,664,512
1964.....	682,024	193,285,404	337,728	103,483	403,102	53,687,566	238,076	61,725,638

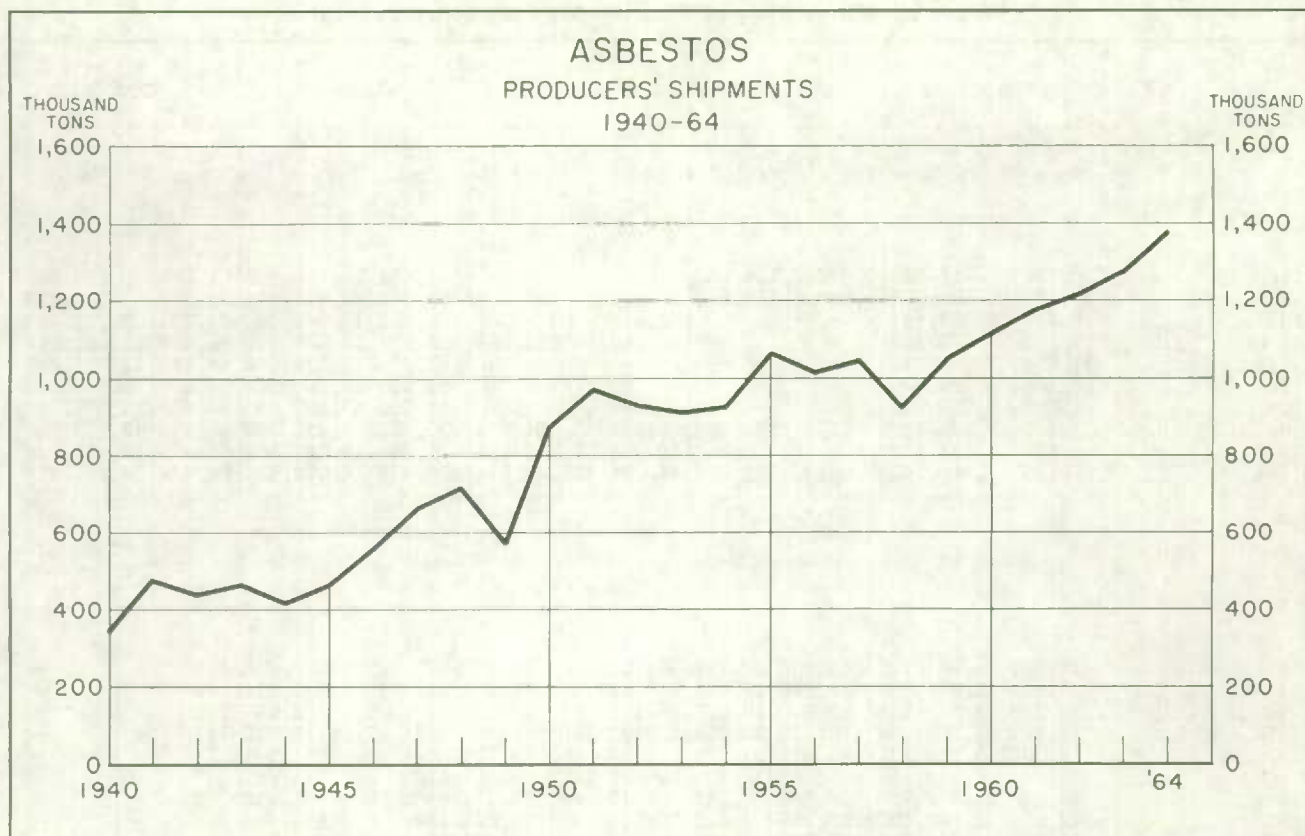


TABLE 34. ASBESTOS

Year	Producers' shipments		Exports		
			Crude	Milled fibres	Waste, refuse or shorts
	Tons	Value \$	Tons	Tons	Tons
1955.....	1,063,802	96,191,317	586	365,980	635,261
1956.....	1,014,249	99,859,969	560	377,044	586,317
1957.....	1,046,086	104,489,431	638	393,311	636,611
1958.....	925,331	92,276,748	483	318,280	547,867
1959.....	1,050,429	107,433,344	416	401,583	611,923
1960.....	1,118,456	121,400,015	241	458,053	610,199
1961.....	1,173,695	128,955,900	176	527,324	589,380
1962.....	1,215,814	130,281,966	182	532,020	632,468
1963.....	1,275,530	136,956,180	195	555,419	650,811
1964.....	1,377,079	148,370,312	214	630,515	702,747

TABLE 35. ARSENIOS OXIDE

Year	Production (crude and refined) ²		Exports (crude and refined) ¹	
	Pounds ²	Value	Pounds	Value
		\$		\$
1955	1,571,787	69,159	940,600	40,794
1956	1,790,381	77,612	1,168,100	50,482
1957	3,697,317	137,112	3,229,800	119,616
1958	2,323,320	94,542	1,703,200	67,731
1959	1,578,307	63,786	1,130,400	46,460
1960	1,724,326	70,400	1,054,200	37,908
1961	419,300	16,772	244,500	10,263
1962	160,750	6,832	3,500	178
1963	187,450	7,498	4,800	284
1964	300,000	12,000	..	..

¹ Does not include arsenic in ores exported from British Columbia.

² Data for 1955-64 include some arsenious oxide recovered from foreign ores.

TABLE 36. BARITE

Year	Producers' shipments		Imports	
	Tons	Value	Tons	Value
		\$		\$
1955	253,736	2,277,166	1,449	46,017
1956	320,835	3,031,034	1,475	50,828
1957	228,048	2,992,913	1,831	58,009
1958	195,719	2,196,384	1,362	56,644
1959	238,967	2,254,582	1,662	64,468
1960	154,292	1,462,212	2,021	91,179
1961	191,404	1,799,119	1,890	94,248
1962	226,600	2,123,964	2,427	114,891
1963	173,503	1,693,119	3,830	195,938
1964	172,415	1,692,400	3,206	165,000

TABLE 37. FELDSPAR

Year	Producers' shipments		Imports		Exports	
	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$
1955	18,152	355,879	137	3,106	1,426	38,125
1956	18,153	364,849	196	4,758	1,804	48,368
1957	20,450	393,284	241	5,562	4,047	72,198
1958	20,387	359,966	1,140	22,753	9,956	160,621
1959	17,953	301,372	1,161	23,067	7,552	115,111
1960	13,862	239,273	1,338	27,545	3,183	73,811
1961	10,507	229,626	1,721	36,235	2,626	62,786
1962	9,994	222,460	1,901	43,846	3,698	87,499
1963	8,608	197,031	2,600	59,217	3,282	78,921
1964	8,615	205,420	..	..	3,386	80,426

TABLE 38. FLUORSPAR

Year	Producers' shipments		Imports		Exports	
	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$
1955	128, 114	2, 708, 437	21, 774	518, 002	58, 390	1, 460, 844
1956	140, 071	3, 407, 582	28, 148	690, 779	78, 380	1, 941, 500
1957	66, 245	1, 756, 841	14, 547	377, 706	23, 630	590, 750
1958 .....	..	1, 542, 589	30, 408	763, 438	7	980
1959 .....	..	1, 850, 497	26, 588	718, 774	3, 774	73, 078
1960 .....	..	1, 921, 820	59, 690	1, 486, 107	10, 312	311, 989
1961 .....	..	1, 990, 200	32, 769	914, 221	2, 048	53, 326
1962 .....	..	1, 870, 184	67, 847	2, 052, 056	..	10, 366
1963 .....	..	1, 976, 006	66, 798	1, 946, 257	..	7, 500
1964 .....	..	2, 291, 626	69, 986	2, 061, 000	..	5, 625

TABLE 39. GRAPHITE

Year	Producers' shipments		Imports			Exports
	Tons	Value	Plumbago, not ground or otherwise manufactured	Crucibles, plumbago	Plumbago, ground and manufactures of, n.o.p.	Value
			dollars			
1955	—	—	64, 798	202, 864	561, 394	761
1956	—	—	87, 926	260, 000	815, 384	200
1957	—	—	74, 089	237, 333	748, 732	160
1958	—	—	53, 219	166, 056	909, 226	—
1959	—	—	64, 014	224, 204	976, 250	—
1960	—	—	75, 714	236, 148	905, 756	—
1961	1	146	47, 450	215, 788	945, 258	—
1962	—	—	58, 351	254, 447	1, 362, 492	—
1963	—	—	86, 991	284, 206	2, 353, 816	—
1964	13	6, 570	..	242, 000	..	—

TABLE 40. GYPSUM

Year	Producers' shipments		Exports of crude gypsum	
	Tons	Value	Tons	Value
		\$		\$
1955	4, 667, 901	8, 037, 153	3, 039, 192	4, 930, 626
1956	4, 895, 811	7, 260, 236	3, 840, 721	6, 987, 537
1957	4, 577, 492	7, 745, 105	3, 410, 684	5, 905, 051
1958	3, 964, 129	5, 189, 159	2, 898, 230	4, 871, 440
1959	5, 878, 630	8, 393, 703	4, 848, 576	9, 844, 602
1960	5, 205, 731	9, 498, 711	4, 273, 668	7, 053, 690
1961	4, 940, 037	7, 750, 748	3, 819, 345	5, 553, 551
1962	5, 332, 809	9, 349, 775	4, 162, 997	5, 630, 206
1963	5, 955, 266	11, 237, 952	4, 703, 118	7, 674, 340
1964	6, 373, 765	12, 397, 828	5, 057, 253	9, 060, 708

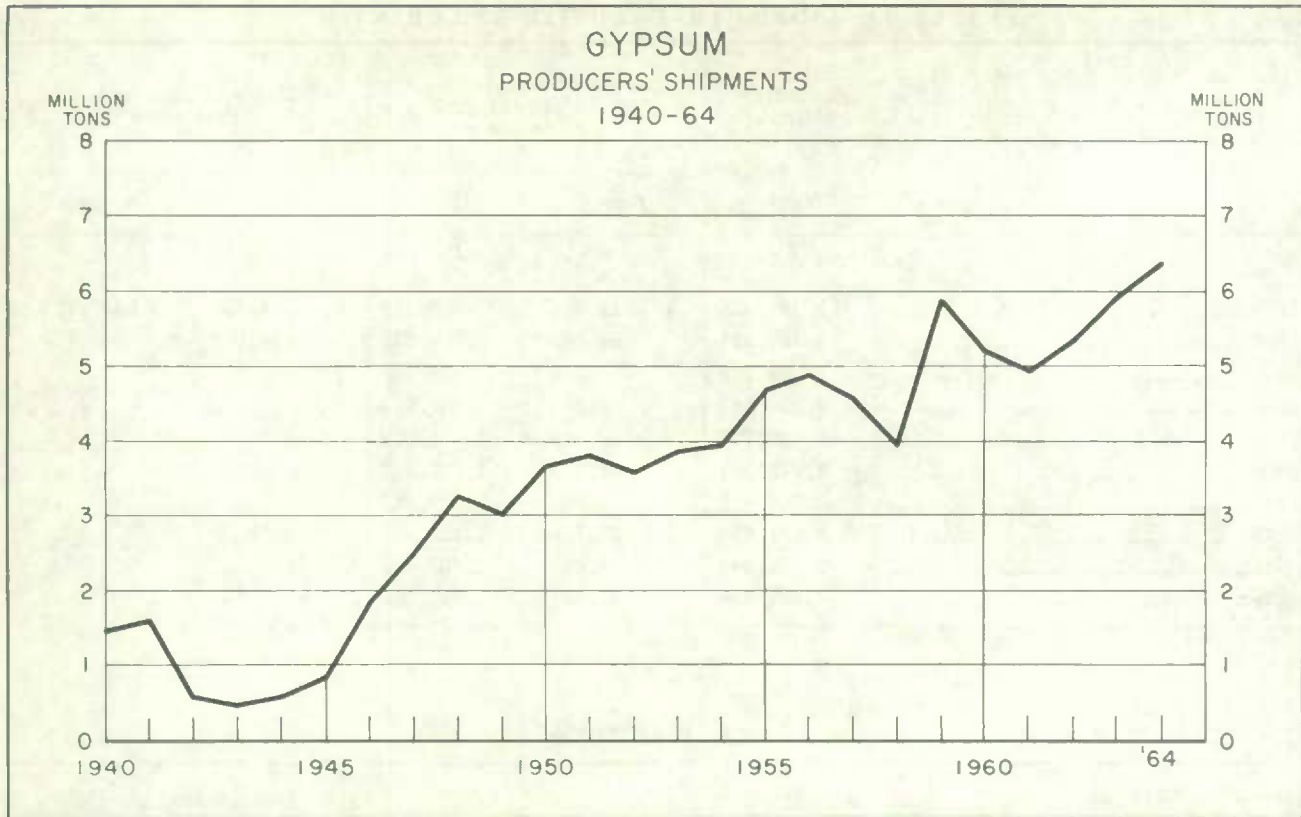


TABLE 41. IRON OXIDES

Year	Producers' shipments		Year	Producers' shipments	
	Tons	Value		Tons	Value
		\$			\$
1955	7,702	162,512	1960	909	76,780
1956	8,803	186,225	1961	808	68,199
1957	7,518	187,211	1962	771	58,363
1958	1,632	113,390	1963	978	74,505
1959	1,235	108,286	1964	914	79,015

TABLE 42. LITHIA

Year	Producers' shipments		Year	Producers' shipments	
	Pounds	Value		Pounds	Value
		\$			\$
1955	162,512	114,376	1960	204,666	84,135
1956	4,789,380	2,643,950	1961	536,190	392,871
1957	5,140,257	2,827,143	1962	499,736	558,654
1958	3,853,322	2,047,880	1963	644,354	682,029
1959	2,756,280	1,422,153	1964	1,049,783	1,152,000

TABLE 43. MAGNESITIC DOLOMITE AND BRUCITE

Year	Shipments magnesitic dolomite and brucite	Imports of dead-burned sintered and calcined magnesite		Exports of dead-burned refractories	
	Value	Tons	Value	Tons	Value
	\$		\$		\$
1955.....	2, 151, 820	13, 937	854, 152	3, 255	195, 771
1956.....	2, 783, 181	24, 060	1, 590, 025	14, 826	963, 608
1957.....	3, 046, 298	10, 159	714, 798	..	..
1958.....	2, 529, 161	13, 971	1, 063, 911	..	..
1959.....	3, 050, 779	20, 113	1, 505, 097	..	..
1960.....	3, 279, 021	24, 178	1, 739, 577	..	..
1961.....	3, 064, 403	21, 944	1, 708, 067	..	..
1962.....	3, 431, 873	27, 566	2, 128, 447	..	..
1963.....	3, 439, 890	18, 642	1, 404, 800	..	..
1964.....	3, 467, 029	27, 631	1, 911, 000	..	..

TABLE 44. MICA

Year	Producers' shipments		Year	Producers' shipments	
	Pounds	Value		Pounds	Value
		\$			\$
1955.....	1, 640, 708	77, 541	1960.....	1, 702, 605	94, 203
1956.....	1, 843, 811	95, 668	1961.....	1, 816, 160	125, 377
1957.....	1, 282, 416	111, 583	1962.....	1, 204, 034	84, 598
1958.....	1, 504, 933	89, 651	1963.....	1, 183, 041	44, 284
1959.....	813, 834	63, 004	1964.....	1, 202, 800	95, 583

TABLE 45. MINERAL WATERS¹

Year	Producers' shipments		Year	Producers' shipments	
	Imperial gallons	Value		Imperial gallons	Value
		\$			\$
1955.....	306, 683	160, 510	1960.....	375, 425	201, 764
1956.....	292, 528	149, 867	1961.....	364, 933	208, 709
1957.....	348, 710	185, 167	1962.....	377, 248	207, 325
1958.....	316, 727	172, 568	1963.....	...	...
1959.....	369, 113	202, 969	1964.....	...	...

¹ Mineral waters is not now classified to the mineral industry. Data are shown here for reference purposes and may not appear in future issues.

TABLE 46. NEPHELINE SYENITE

Year	Producers' shipments		Exports	
	Tons	Value	Tons	Value
		\$		\$
1955	146,068	2,099,512	118,275	1,753,117
1956	180,006	2,574,140	139,305	1,935,315
1957	200,016	2,754,060	164,342	2,235,843
1958	201,306	2,613,446	160,081	2,098,421
1959	228,722	2,930,932	178,120	2,345,341
1960	240,636	2,891,095	193,298	2,373,354
1961	240,320	2,572,169	194,598	2,249,348
1962	254,418	2,605,421	193,658	2,210,834
1963	254,000	2,699,202	203,262	2,213,942
1964	292,042	3,397,106	226,971	2,630,185

TABLE 47. PEAT MOSS

Year	Producers' shipments		Exports ¹	
	Tons	Value	Tons	Value
		\$		\$
1955	117,579	3,485,287	102,997	5,388,362
1956	128,054	4,240,714	113,346	6,068,845
1957	137,747	4,734,504	117,877	6,668,723
1958	149,013	4,778,660	129,138	7,507,463
1959	184,049	6,226,688	161,236	8,976,389
1960	185,784	6,088,138	157,490	8,825,540
1961	224,031	7,295,087	187,621	10,414,574
1962	238,035	7,480,396	205,222	10,999,085
1963	243,346	8,485,921	206,911	9,901,186
1964	245,117	7,177,608	217,630	10,200,315

¹ Peat moss and other mosses.

TABLE 48. PHOSPHATE ROCK

Year	Producers' shipments		Imports	
	Tons	Value	Tons	Value
		\$		\$
1955	—	—	588,209	4,512,833
1956	—	—	627,643	5,185,597
1957	—	—	723,220	5,897,784
1958	—	—	744,164	6,854,243
1959	—	—	797,063	7,468,368
1960	—	—	941,998	8,320,129
1961	—	—	1,056,885	9,678,644
1962	—	—	1,155,966	10,842,509
1963	—	—	1,297,427	12,203,728
1964	—	—	1,378,585	11,481,000

TABLE 49. PYRITE, PYRRHOTITE

Year	Producers' shipments			Year	Producers' shipments		
	Gross weight	Sulphur content ¹	Value		Gross weight	Sulphur content ¹	Value
	tons		\$		tons		\$
1955	878,452	403,986	3,740,383	1960	1,032,288	...	3,316,378
1956	1,046,740	473,605	4,538,785	1961	517,258	...	1,830,566 ²
1957	1,166,416	515,096	4,808,228	1962	517,308	...	1,879,584
1958	1,191,731	512,427	4,248,688	1963	476,438	...	1,643,629
1959	1,099,564	...	3,433,095	1964	356,349	...	1,128,019

¹ Data for 1955 include sulphur content of acid made from roasting zinc sulphide concentrates at Arvida.² Method of compilation changed in 1961. Iron residue from pyrite and pyrrhotite roasting now included in iron industry.

TABLE 50. QUARTZ

Year	Producers' shipments of quartz, quartzite, etc.		Exports of quartzite	
	Tons	Value	Tons	Value
		\$		\$
1955	1,869,913	2,039,575	87,622	265,374
1956	2,142,234	3,036,543	181,196	564,173
1957	2,139,246	3,185,186	232,299	790,728
1958	1,453,656	2,538,150	17,074	72,797
1959	2,163,546	3,436,730	147,412	465,166
1960	2,260,766	3,268,705	13,057	44,505
1961	2,194,054	3,152,882	26,774	116,109
1962	2,085,620	3,817,445	156,205	489,999
1963	1,836,612	3,687,979	47,437	216,489
1964	2,130,837	4,602,864	146,206	425,371

TABLE 51.

Year	Imports, ganister		Imports of silix or crystallized quartz, ground or unground		Imports of flint and ground flint stones		Imports, silica sand	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$		\$
1955	456	8,183	24,517	252,237	803	25,549	735,458	2,146,088
1956	562	6,572	26,892	326,620	616	15,076	840,374	2,597,302
1957	667	10,094	13,718	186,882	528	17,632	744,367	2,407,633
1958 .....	..	..	12,024	150,960	542	22,567	603,343	2,114,555
1959 .....	..	..	13,815	184,451	786	26,477	792,129	2,525,319
1960 .....	..	..	10,521	161,239	1,232	21,403	720,876	2,404,685
1961 .....	..	..	10,327	191,336	1,339	30,953	693,220	2,490,688
1962 .....	..	..	8,960	175,509	1,193	29,696	765,431	2,962,626
1963 .....	..	..	11,882	204,696	1,812	38,110	782,157	3,045,078
1964 .....	..	..	7,742	337,000	..	..	781,333	3,075,000

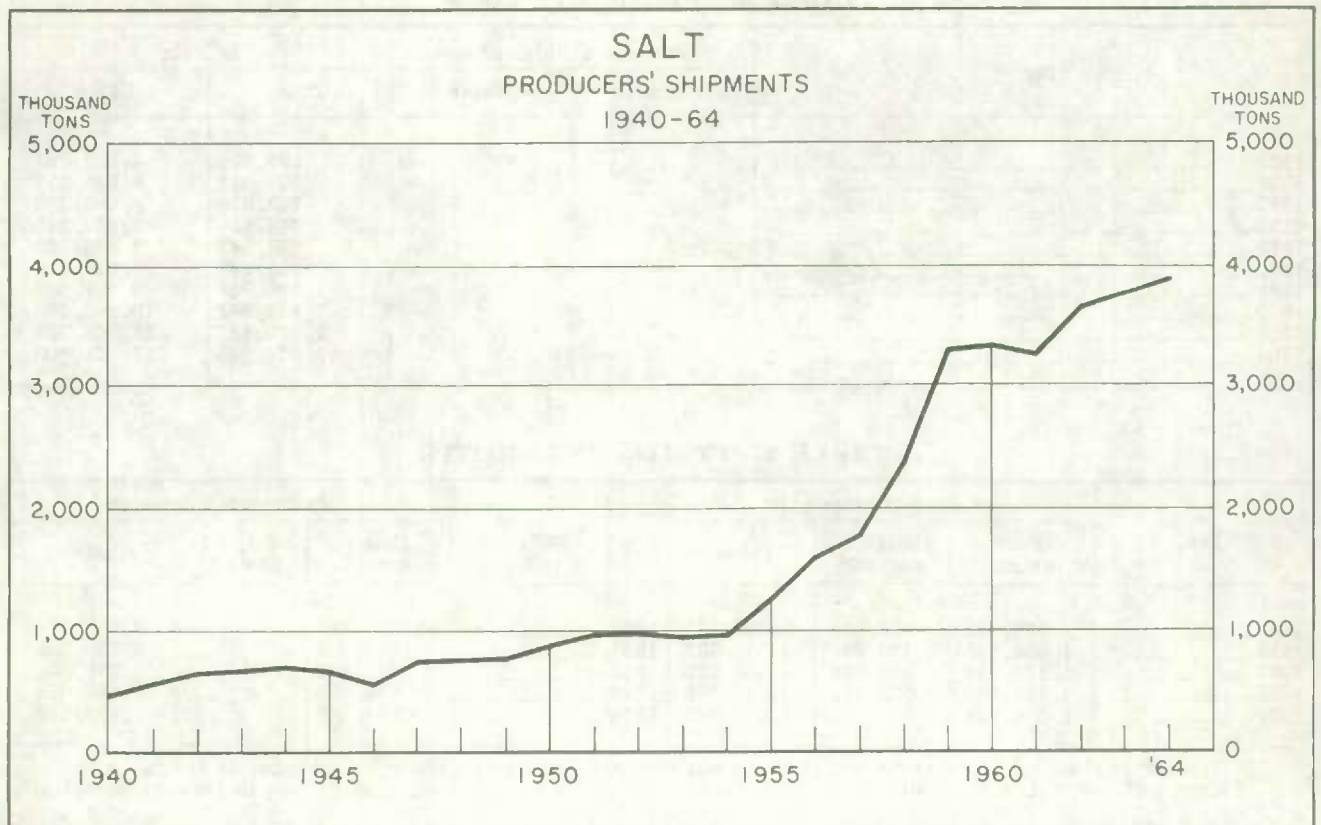


TABLE 52. SALT

Year	Producers' shipments		Imports of salt						Total exports of salt	
			For use of the sea or gulf fisheries		In bulk, n.o.p.		In bags, barrels, etc., n.o.p.			
	Tons	Value	Tons	Value	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$		\$		\$
1955	1,244,761	10,122,299	49,621	299,622	279,578	1,127,418	36,017	437,133	146,472	1,000,501
1956	1,590,804	12,144,476	58,985	330,012	242,133	962,505	17,961	284,951	333,935	2,286,830
1957	1,771,559	13,989,703	80,178	308,081	269,681	1,023,114	17,527	281,734	457,888	3,241,119
1958	2,375,192	14,989,542	56,977	247,374	267,423	946,159	16,445	275,123	406,707	2,917,269
1959	3,289,976	18,034,522	63,789	258,079	291,378	1,017,556	15,625	239,234	1,274,077	4,639,522
1960	3,314,920	19,355,658	65,100	261,236	155,918	320,858	10,170	202,906	...	3,461,366
1961	3,246,527	19,552,006	60,515	255,544	126,485	436,664	10,992	228,908	...	2,829,138
1962	3,638,778	21,927,135	47,672	180,969	185,961	608,072	11,015	223,824	...	3,987,668
1963	3,721,994	22,316,565	66,835	304,254	254,598	1,011,493	11,148	266,159	...	3,701,356
1964	3,892,636	23,075,518	45,665	225,000	360,995 ¹	1,705,000	..	..	...	3,618,569

¹ Imports of salt and brine, n.e.s.

TABLE 53. SODIUM CARBONATE (Natural)

Year	Production of natural sodium carbonate		Imports of soda ash	
	Tons	Value	Tons	Value
		\$		\$
1955	—	—	118,900	3,308,412
1956	—	—	134,816	4,002,140
1957	—	—	91,472	2,927,367
1958	—	—	33,516	1,060,915
1959	—	—	33,290	1,034,707
1960	—	—	44,550	1,289,909
1961	—	—	26,491	847,238
1962	—	—	24,779	850,134
1963	—	—	52,575	1,722,108
1964	—	—	120,529	3,890,000

TABLE 54. SODIUM SULPHATE (Natural)

Year	Producers' shipments of natural sodium sulphate		Imports			
			Salt cake		Glauber's salt	
	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$
1955	178,888	2,799,715	29,928	574,440	3,888	131,447
1956	181,053	2,838,186	30,319	558,656	2,768	91,330
1957	157,800	2,568,728	28,088	511,457	1,512	50,527
1958	173,217	2,862,915	25,812	478,215	1,217	38,792
1959	179,535	2,881,861	27,157	511,162	966	39,907
1960	214,208	3,449,155	24,706	472,084	1,151	38,350
1961	250,996	4,036,625	32,310	575,015	899	29,023
1962	246,672	3,954,273	31,347	608,958	426	22,579
1963	256,914	4,121,114	19,002	386,037	495	28,180
1964	330,178	5,328,220	30,840	600,000	..	..

MINERAL STATISTICS

TABLE 55. SULPHUR

Year	Production of sulphur in smelter gases		Elemental sulphur from natural gas, sulphides sales	Imports of sulphur		Exports of sulphur in pyrites	
	Tons ¹	Value	Tons	Tons	Value	Tons	Value
		\$			\$		\$
1955	224,457	2,244,570	25,976	373,373	9,386,983	...	2,001,575
1956 ²	236,088	2,323,590	34,784	474,117	11,857,556	...	2,649,349
1957 ²	235,123	2,322,067	93,338	416,930	9,752,368	...	2,852,753
1958 ²	241,055	2,361,252	94,377	375,331	8,324,191	...	1,879,251
1959	277,030	2,716,416	145,656	332,430	6,924,938	...	1,018,608
1960	289,620	2,854,623	274,359	328,765	6,629,239	...	1,259,151
1961	277,056	2,708,110	394,762	329,556	7,094,216	...	899,755
1962	292,728	3,089,537	695,098	195,089	4,637,588	...	890,055
1963	353,243	3,488,181	1,249,887	150,637	3,505,395	...	937,883
1964	534,776	4,493,182	1,611,181	143,444	3,480,000	...	878,545

¹ Does not include in 1955 sulphur in acid made from roasting zinc sulphide concentrates at Arvida.

² Includes sulphur in acid made from zinc sulphide at Arvida.

Note: Pyrite data shown in Table 49.

TABLE 56. TALC AND SOAPSTONE

Year	Producers' shipments				Imports of talc and soapstone		Exports of talc	
	Talc		Soapstone ^{1,2}					
	Tons	Value	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$		\$
1955	14,591	194,952	12,569	144,015	11,382	378,027	4,428	64,974
1956	12,371	167,851	16,955	197,375	16,268	496,001	2,613	34,408
1957	11,236	160,015	23,489	267,658	14,949	536,189	2,353	29,848
1958	8,725	125,511	26,680	303,625	16,593	584,666	1,930	24,713
1959	8,796	125,903	30,380	386,226	18,501	696,949	2,053	29,796
1960	7,189	102,645	34,447	420,536	19,153	807,429	1,660	24,272
1961	7,417	107,660	40,699	582,970	20,205	898,834	..	..
1962	8,082	127,912	38,079	497,396	24,148	1,119,919	..	..
1963	6,903	107,986	47,347	649,892	27,539	1,288,844	..	..
1964	7,900	133,000	49,250	686,154	32,259	1,388,000	..	..

¹ Includes some low-grade talc.

² Includes pyrophyllite.

TABLE 57. TITANIUM DIOXIDE, ETC.

Year	Production	
	Tons	Value
		\$
1955	117,042	5,192,810
1956	157,374	7,682,911
1957	186,422	9,740,570
1958 .....	...	6,575,077
1959 .....	...	8,507,149
1960 .....	...	12,947,000
1961 .....	...	11,573,862
1962 .....	...	14,249,953
1963 .....	...	13,806,608
1964 .....	...	20,981,935

FUELS

TABLE 58. COAL

Year	Production		Imports		Exports	
	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$
1955.....	14,818,880	93,579,471	19,742,531	106,550,922	592,782	4,870,598
1956.....	14,915,610	95,349,763	22,613,374	128,736,670	594,166	4,710,030
1957.....	13,189,155	90,220,670	19,553,412	113,981,155	396,311	3,357,959
1958.....	11,687,110	79,963,327	14,196,652	86,818,345	338,544	2,907,513
1959.....	10,626,722	73,875,895	14,254,639	84,908,838	473,768	3,582,313
1960.....	11,011,138	74,676,240	13,864,846	76,814,031	852,921	6,789,163
1961.....	10,397,704	70,052,683	12,316,162	71,717,030	939,360	8,540,749
1962.....	10,284,769	69,160,213	12,614,189	74,171,490	893,919	8,207,354
1963.....	10,575,694	71,756,581	13,370,406	78,663,353	1,054,367	9,870,185
1964.....	11,072,776	72,109,342	15,004,607	86,259,000	1,278,118	11,843,644

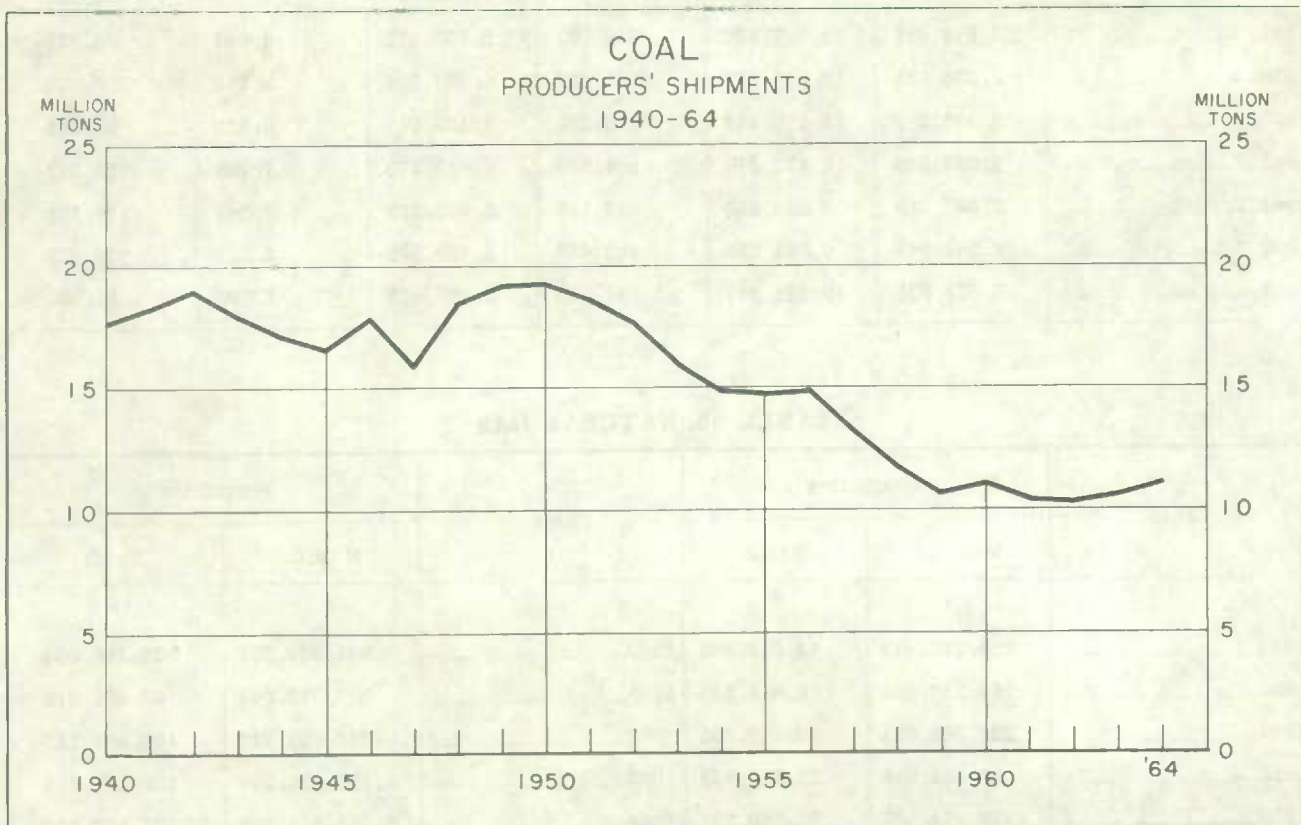


TABLE 59. Coal Production, by Provinces

Year	Nova Scotia		New Brunswick		Saskatchewan	
	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$
1955.....	5,731,026	49,852,554	877,838	7,100,649	2,293,816	4,309,163
1956.....	5,775,025	50,931,178	988,266	7,990,446	2,341,641	4,320,167
1957.....	5,685,770	52,877,614	976,597	8,189,859	2,248,812	4,398,031
1958.....	5,269,879	50,347,951	790,719	6,621,369	2,253,176	4,379,481
1959.....	4,391,829	43,730,600	1,003,387	8,347,215	1,947,380	3,746,044
1960.....	4,570,240	44,981,257	1,028,064	8,663,339	2,170,797	3,833,629
1961.....	4,300,758	41,716,107	887,903	7,526,647	2,208,851	3,769,357
1962.....	4,204,779	41,713,202	815,529	6,752,042	2,256,306	4,553,900
1963.....	4,554,944	44,693,053	886,336	7,232,170	1,873,556	3,713,988
1964.....	4,343,606	43,357,223	997,187	8,277,442	1,807,760	3,683,543
	Alberta		British Columbia		Yukon	
		\$		\$		\$
1955.....	4,455,279	23,559,584	1,453,881	8,675,715	7,040	81,806
1956.....	4,328,787	23,274,012	1,472,519	8,722,856	9,372	111,104
1957.....	3,156,546	17,383,547	1,113,699	7,280,024	7,731	91,595
1958.....	2,519,901	12,807,276	849,091	5,750,871	4,344	56,379
1959.....	2,528,755	12,756,112	751,492	5,237,724	3,879	58,200
1960.....	2,391,699	11,516,842	843,868	5,584,017	6,470	97,156
1961.....	2,027,826	10,472,978	964,663	6,453,373	7,703	114,221
1962.....	2,087,310	9,969,608	913,196	6,056,263	7,649	115,198
1963.....	2,289,943	9,864,890	962,684	6,128,805	8,231	123,675
1964.....	2,875,635	10,414,367	1,041,796	6,285,437	6,792	91,330

TABLE 60. NATURAL GAS

Year	Production		Year	Production	
	M cu.ft.	Value		M cu.ft.	Value
		\$			\$
1955.....	150,772,312	15,098,508	1960.....	522,972,327	52,196,882
1956.....	169,152,586	16,849,556	1961.....	655,737,644	68,421,918
1957.....	220,006,682	20,962,501	1962.....	946,702,727	108,641,159
1958.....	337,803,726	32,057,536	1963.....	1,117,425,217	150,468,714
1959.....	417,334,527	39,609,393	1964.....	1,363,814,214	183,505,880

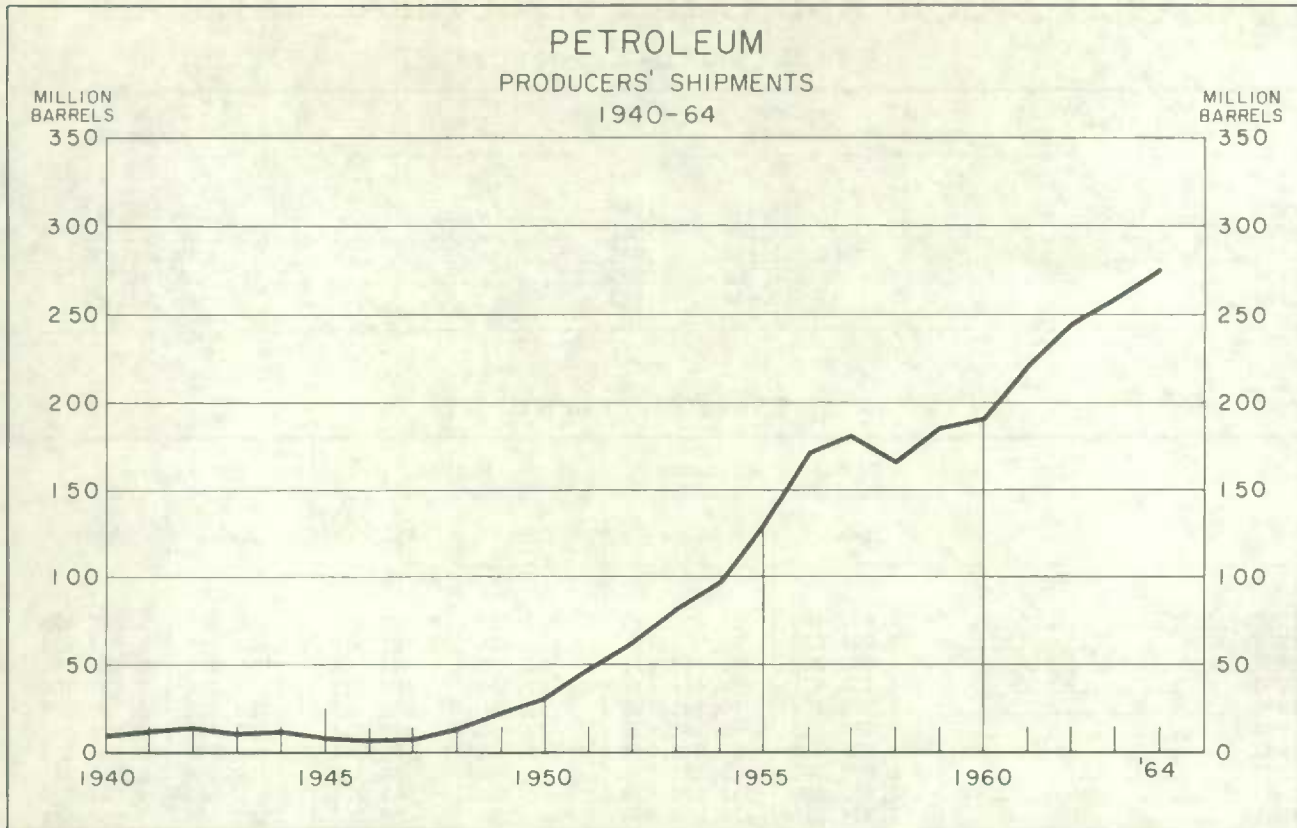


TABLE 61. Crude Petroleum Production, by Provinces

Year	New Brunswick		Ontario		Manitoba		Saskatchewan	
	Barrels	Value	Barrels	Value	Barrels	Value	Barrels	Value
		\$		\$		\$		\$
1955	12,548	17,587	525,510	1,599,335	4,145,756	9,618,154	11,317,168	18,317,968
1956	16,628	23,279	593,370	1,958,121	5,786,540	13,633,088	21,077,371	36,253,078
1957	19,401	27,161	623,666	2,160,000	6,089,743	15,467,947	36,861,089	79,325,064
1958	15,189	21,265	778,341	2,623,000	5,829,228	14,415,876	44,626,148	96,704,863
1959	14,479	20,271	1,001,580	3,194,000	5,056,075	11,619,872	47,442,498	97,731,546
1960	14,148	19,807	1,005,030	3,150,065	4,764,045	10,690,384	51,908,428	103,957,009
1961	12,024	16,833	1,149,087	3,546,740	4,480,348	10,156,000	55,860,104	115,719,791
1962	10,333	14,466	1,134,534	3,661,174	3,926,683	9,435,819	64,432,411	141,783,520
1963	7,381	10,333	1,205,376	3,459,429	3,771,163	9,188,635	71,303,893	160,226,978
1964	4,961	6,945	1,260,000	3,595,145	4,370,000	10,620,000	81,040,229	184,403,588
		\$		\$		\$		\$
	Alberta		British Columbia		Northwest Territories		Canada	
		\$		\$		\$		\$
1955	113,035,046	274,901,232	-	-	404,219	1,185,780	129,440,247	305,640,036
1956	143,909,641	353,829,158	148,454	302,375	449,409	762,773	171,981,413	406,561,872
1957	137,492,316	355,555,140	340,945	763,717	420,844	294,591	181,848,004	453,593,820
1958	113,277,847	283,262,592	512,359	1,022,156	457,086	698,266	165,496,196	398,747,818
1959	129,967,312	306,917,803	866,234	1,583,129	430,319	1,025,914	184,778,497	422,092,535
1960	130,506,968	302,841,423	867,057	1,626,590	468,545	641,219	189,534,221	422,926,497
1961	157,811,712	355,530,845	1,017,826	1,859,873	516,979	730,160	220,848,080	487,560,242
1962	165,124,967	379,830,363	8,914,220	16,872,122	572,004	755,045	244,115,152	552,352,509
1963	168,214,054	416,844,350	12,528,681	24,841,518	631,229	633,754	257,661,777	615,204,997
1964	175,230,500	451,640,600	11,728,180	23,749,356	618,255	462,517	274,250,125	674,478,151

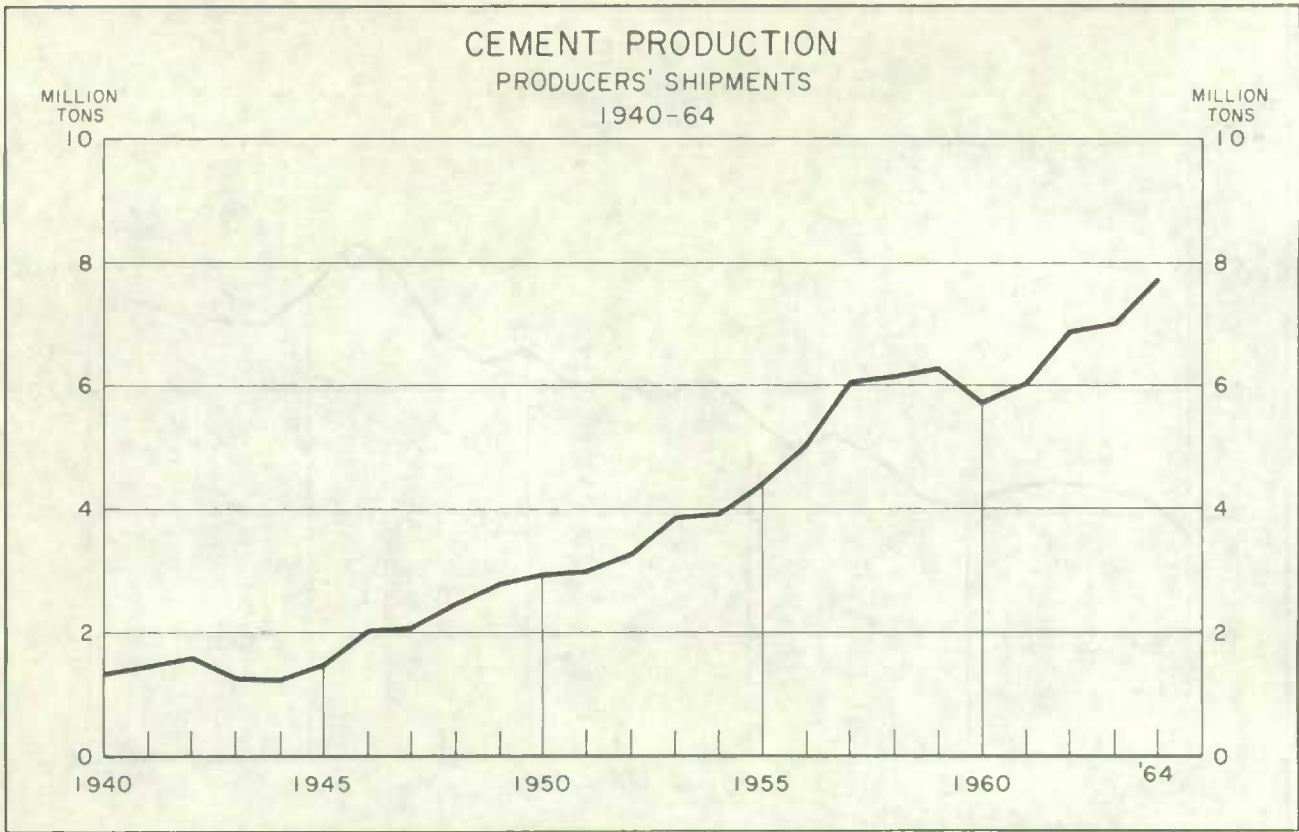


TABLE 65. LIME

Year	Producers' shipments					
	Quicklime		Hydrated lime		Total	
	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$
1955.....	995,639	12,221,541	335,479	3,589,363	1,331,118	15,810,904
1956.....	947,316	11,852,860	348,383	3,814,738	1,295,699	15,667,598
1957.....	1,074,338	13,048,505	304,279	3,630,109	1,378,617	16,678,614
1958.....	1,258,089	15,371,452	338,323	4,094,371	1,596,422	19,465,823
1959.....	1,359,666	17,255,903	326,059	4,048,118	1,685,725	21,304,021
1960.....	1,213,597	15,609,573	315,971	3,692,217	1,529,568	19,301,790
1961.....	1,142,354	15,631,387	272,936	3,585,984	1,415,290	19,217,371
1962.....	1,181,058	14,148,347	243,401	3,498,241	1,424,459	17,646,588
1963.....	1,204,824	14,915,096	245,907	3,589,124	1,450,731	18,504,220
1964.....	...	...	...	...	1,490,922	19,122,104

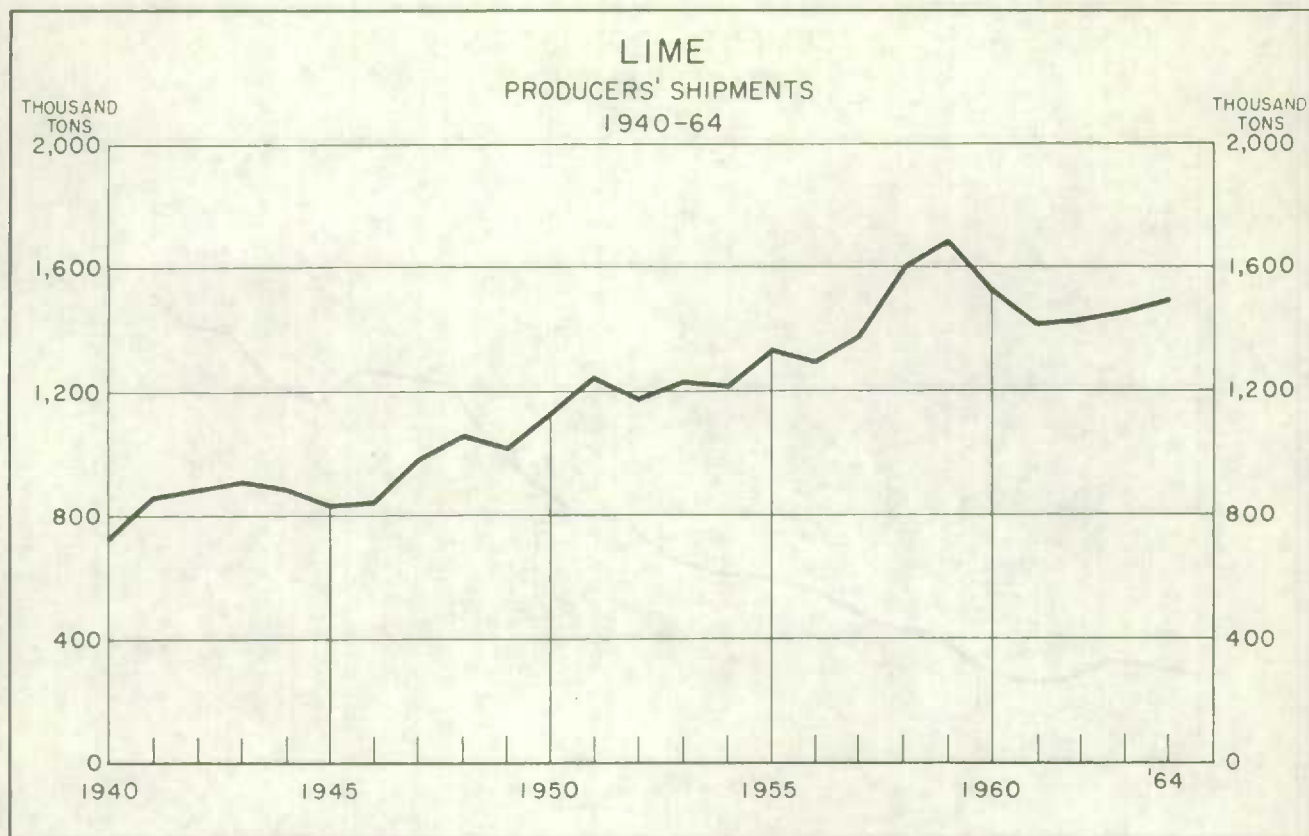


TABLE 66. SAND AND GRAVEL

Year	Production		Year	Production	
	Tons	Value		Tons	Value
		\$			\$
1955	127,524,474	67,775,053	1960	192,074,498	111,163,886
1956	148,801,268	81,957,352	1961	170,750,947	104,654,132
1957	159,829,512	91,939,354	1962	181,245,762	118,603,283
1958	160,210,945	96,282,363	1963	189,570,503	123,854,254
1959	185,123,746	104,651,461	1964	189,374,681	124,049,509

TABLE 67. STONE

Year	Production		Year	Production	
	Tons	Value		Tons	Value
		\$			\$
1955	30,512,920	43,736,687	1960	45,359,449	60,640,621
1956	33,257,318	48,809,918	1961	48,938,804	66,567,668
1957	40,282,081	59,197,662	1962	50,553,485	68,866,358
1958	38,156,647	55,582,929	1963	62,655,329	79,883,419
1959	46,439,535	60,958,784	1964	63,630,849	83,647,334

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