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IRON MINES

1966

This report includes statistics for industry 058 - Iron Mines of the Standard Industrial Classification Manual (Catalogue No. 12-501). For statistical purposes, the industry Iron Mines is defined as including establishments primarily engaged in mining iron ore and in dressing and beneficiating such ores.

The producers of iron ore shipped 40,690,723 short tons valued at \$431,659,083 in 1966, included in the total are direct shipping ore, lump ore, sinter, pellets, magnetic concentrates and by-products iron sinter.

Pyrite and pyrrhotite are roasted at Copper Cliff, Ontario by the International Nickel Co. of Canada, Ltd., at Falconbridge, Ontario by the Falconbridge Mines Ltd. and at Kimberley, British Columbia by the Consolidated Mining and Smelting Co. of Canada Ltd. Principal statistics details relating to these operations are included in the manufacturing industries; however, commodity data on Producers' Shipments of Iron Ore shown for all industries in Tables 8 and 9 include (since 1961) by-product iron sinter made by roasting or calcining this pyrite or pyrrhotite.

Detailed technical information on the mining and development of the iron ore industry may be found in the annual report of the Department of Energy, Mines and Technical Surveys, Ottawa, Mineral Information Bulletin M.R. 70.

Data presented in this report under the heading of Iron Mines (Tables 1-6) reflect the full implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept including an extension of the latter to cover total activities of mining establishments (see Explanatory Notes section of 1964 report). Commodity statistics reflecting total production from all sources, world figures on production, trade data, etc. are presented along the same general lines as in the earlier issues of this report.

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.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics Iron Mines, 1962-66

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Mining activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of produc- tion	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962	20	6,113	13,161	36,140	8,639	51,037	230,790	171,114	—	—	9,181	56,573	172,499
1963	18	6,478	14,779	41,241	12,669	66,333	286,045	207,043	—	—	9,608	63,236	210,440
1964	16	6,696	15,453	44,840	16,694	71,405	328,178	240,079	—	—	9,544	66,540	243,133
1965	18	8,168	19,287	55,053	25,061	90,051	358,393	243,281	—	—	11,739	82,593	247,658
1966	18	7,339	16,430	55,120	26,256	101,690	378,340	250,393	—	—	11,464	87,165	251,494

¹ Refer to Explanatory Notes 1964 issue for description of concepts and definitions.

TABLE 2. Employment and Payroll, Iron Mines, 1962-66

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Employees										Salaries and wages				
	Production and related workers		Other		Adminis- trative and office		Sales and distribution		Total		Production and related workers	Other	Admin- istra- tive and office	Sales and distri- bution	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Mining				
	number										\$'000				
1962	6,093	20	440	2	2,190	436	—	—	8,723	458	36,140	2,583	17,851	—	56,573
1963	6,458	20	616	2	2,044	468	—	—	9,118	490	41,241	4,063	17,932	—	63,236
1964	6,683	13	506	2	1,918	422	—	—	9,107	437	44,840	4,396	17,303	—	66,540
1965	8,144	24	483	2	2,569	517	—	—	11,196	543	55,053	4,456	23,084	—	82,593
1966	7,329	10	1,042	16	2,561	506	—	—	10,932	532	55,120	7,753	24,292	—	87,165

TABLE 3. Production and Related Workers, Iron Mines, 1965 and 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and month	Mine			Mill	
	Surface		Underground	Male	Female
	Male	Female	Male		
number					
1965					
January	3,760	15	925	2,883	1
February	3,876	14	928	2,884	1
March	3,943	15	919	2,917	2
April	4,094	19	906	2,950	9
May	4,208	18	945	2,974	13
June	4,314	14	956	3,029	13
July	4,381	14	982	3,238	12
August	4,380	15	984	3,108	14
September	4,316	9	970	3,092	16
October	4,269	9	980	3,085	16
November	4,351	9	977	3,001	18
December	4,251	9	927	3,013	19
Averages	4,179	13	950	3,015	11
1966					
January	4,187	10	1,002	2,460	—
February	4,330	9	993	2,417	—
March	4,288	9	976	2,384	—
April	4,339	9	853	2,414	—
May	4,337	9	679	2,518	—
June	4,392	9	596	2,600	—
July	3,943	9	485	2,420	—
August	4,088	9	471	2,627	—
September	4,126	9	459	2,503	—
October	4,089	9	466	2,531	—
November	4,090	13	463	2,405	—
December	3,999	13	515	2,454	—
Averages	4,184	10	663	2,478	—

TABLE 4. Purchased Fuel and Electricity Used, Iron Mines, 1965 - 66

Basis: Revised Standard Industrial Classification and New Establishment Concept

Description		1965		1966	
		Quantity	Cost \$'000	Quantity	Cost \$'000
Bituminous coal.....	ton	316	6	195	4
(a) From Canadian mines.....	ton	1,457	19	1,111	14
(b) Imported.....		—	—	—	—
Sub-bituminous coal (from Alberta mines only).....		—	—	—	—
Anthracite coal.....	ton	1	—	2	—
Lignite coal.....		—	—	—	—
Coke.....	ton	3,014	32	3,260	34
Gasoline (including gasoline used in cars and trucks).....	Imp. gal.	1,734,237	639	1,582,756	543
Fuel oil including kerosene or coal oil.....	"	84,806,977	9,991	101,594,909	11,148
Wood.....	cord	1,042	24	579	14
Gas:					
(a) Liquefied petroleum gases.....	Imp. gal.	526,368	192	1,390,532	392
(b) Other manufactured gas.....		—	—	—	—
(c) Natural gas.....	M cu. ft.	791	431	1,764,596	839
Other fuel.....		—	—	—	—
Electricity purchased.....	kwh.	2,303,828,257	13,727	2,060,889,627	13,269
Steam purchased.....		—	—	—	—
Total fuel and electricity used.....		...	25,061	...	26,256
Electricity generated:					
(a) For own use.....	kwh.	43,890,544	...	60,605,663	...
(b) For sale.....	"	65,029,450	...	62,248,897	502

TABLE 5. Materials and Supplies¹ - Iron Mines, 1965 and 1966

Basis: Revised Standard Industrial Classification and New Establishment Concept

Description	Cost	
	1965	1966
	\$'000	
Ore or other semi-processed materials purchased and used in mine mill operations.....	15	3,643
Containers, shipping materials and supplies used.....	6	—
Operating, maintenance and repair supplies used (excluding fuel).....	89,457	95,699
Amount paid out to others for work done on materials owned by establishments:		
To smelters and/or refineries.....	—	—
To others (mining, milling, etc.).....	573	2,346
Totals.....	90,051	101,690

¹ Refer to Explanatory Notes 1964 issue for explanation of differences in Tables 5 and 6 with data published in earlier years.**TABLE 6. Value of Production, 1965 and 1966**

Basis: Revised Standard Industrial Classification and New Establishment Concept

Description	Value	
	1965	1966
	\$'000	
Value of production.....	358,249	377,731
Amount received in payment for work done on materials and products owned by others.....	144	609
Total value of production and work done.....	358,393	378,340

TABLE 7. Ore Mined and Milled, Iron Mines, 1963 - 66

	1963	1964	1965	1966
	tons (2,000 pounds)			
Ore mined, underground.....	3,850,866	5,081,360	6,419,338	5,829,432
Ore mined, open pit.....	56,220,326	67,713,986	82,735,205	73,989,436
Crude ore beneficiated.....	43,402,801	53,299,632	70,767,965	71,027,191
Concentrates produced:				
Not agglomerated.....	14,618,438	15,802,662	22,636,369	24,525,573
Agglomerated.....	5,633,391	9,855,971	13,376,198	16,260,907

TABLE 8. Producers' Shipments of Iron Ore,¹ by Provinces, 1956-66

Year	Newfoundland		Quebec		Ontario		British Columbia		Canada	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
	tons	\$	tons	\$	tons	\$	tons	\$	tons	\$
1956.....	8,463,572	55,620,755	7,956,549	58,373,270	5,558,203	44,177,246	369,954	2,190,847	22,348,278	160,362,118
1957.....	8,174,779	57,898,102	8,872,948	65,805,057	4,867,105	41,317,629	357,342	2,200,637	22,272,174	167,221,425
1958.....	5,390,775	38,226,828	6,060,325	46,859,490	3,644,952	36,851,421	630,271	4,193,442	15,726,323	126,131,181
1959.....	6,105,819	42,974,837	11,515,169	92,497,012	6,018,089	50,830,404	849,248	6,363,848	24,488,325	192,666,101
1960.....	7,611,365	54,673,717	7,457,971	61,752,485	5,325,197	48,399,442	1,156,297	10,256,879	21,550,830	175,082,523
1961 ²	7,611,340	59,889,125	5,639,931	53,627,608	5,772,664	62,350,773	1,335,068	12,082,541	20,359,003	187,950,047
1962 ²	7,986,910	67,753,153	11,163,982	112,444,643	6,414,936	64,479,510	1,793,848	18,326,911	27,359,676	263,004,217
1963 ²	9,683,004	99,601,987	11,650,787	122,800,862	6,749,617	70,033,690	2,060,241	20,746,424	30,143,649	313,182,963
1964 ²	12,763,575	137,038,680	15,512,916	161,880,175	8,046,769	85,613,354	2,002,562	20,419,487	38,325,822	404,951,696
1965 ²	14,500,495	156,888,970	14,817,820	140,469,624	8,475,218	94,209,236	2,165,403	21,497,031	39,958,936	413,064,861
1966 ²	16,546,189	188,603,259	13,848,441	130,348,844	8,144,289	91,700,740	2,151,804	21,006,240	40,690,723	431,659,083

¹ Exclusive of titanium-bearing ores.² Includes by-products iron sinter: 1961 amounting to 310,335 tons valued at \$3,780,126; 1962 was 350,299 tons at \$5,038,292; 1963 was 638,235 tons at \$8,657,283; 1964 was 974,788 tons at \$12,949,858; 1965 was 1,251,960 tons at \$16,317,741; 1966 was 1,018,828 tons at \$14,074,627.

Note: (a) The above and subsequent tables contain data on commodities produced by operators which are classified to other industries. As an example: by-products iron sinter or calcine is produced by firms classified to the smelting and refining industry.

(b) In addition, it should be noted that the basis of valuation used in above table is f.o.b. shipping point rather than mine site and therefore, reflects inclusion of transportation and handling charges; accordingly, values shown in above table will be found to be higher than the values shown in Table 6.

TABLE 9. Producers' Shipments of Iron Ore, by Months, 1964-66

Month	1964	1965	1966	Month	1964	1965	1966
	tons (2,000 pounds)				tons (2,000 pounds)		
January.....	1,032,765	1,403,493	1,283,483	August.....	4,411,503	4,486,568	5,000,711
February.....	890,772	1,267,961	933,677	September.....	4,486,485	4,092,250	5,046,958
March.....	1,091,934	1,348,885	1,481,863	October.....	4,084,075	4,427,123	5,351,444
April.....	2,376,972	2,632,142	2,838,026	November.....	3,834,409	4,019,013	4,106,530
May.....	4,203,165	4,325,469	4,416,565	December.....	2,400,686	1,686,339	1,913,814
June.....	5,040,349	5,071,168	4,552,164				
July.....	4,472,707	5,198,525	3,765,488	Year.....	38,325,822 ¹	39,958,936 ²	40,690,723 ¹

¹ Includes by-products iron sinter which amounted to 974,788 tons in 1964; 1,251,960 tons in 1965 and 1,018,828 tons in 1966.TABLE 10. Producers' Shipments¹ of By products Iron Sinter, 1962-66

By-product	1962	1963	1964	1965	1966
	short tons (2,000 pounds)				
Sinter, pellets, from roasted pyrite and pyrrhotite.....	364,815	638,235	974,788	1,251,960	1,018,828

¹ Data are not included in iron ore shipped directly from iron mines, except in 1962 when 350,299 tons were included; in 1963-66 the tonnages shown were included.

TABLE 11. Imports of Iron Ore, 1962-66

Country from which imported	1962	1963	1964	1965	1966
	short tons (2,000 pounds)				
India.....	—	—	—	—	23,654
West Germany.....	—	9	—	—	—
Brazil.....	174,127	386,322	416,924	290,332	367,195
Chile.....	—	—	26,712	—	—
United States.....	4,983,270	5,575,095	5,417,810	5,044,260	4,409,607
Venezuela.....	—	—	—	—	41,439
Italy.....	—	—	—	—	—
Netherlands.....	—	—	—	—	—
Nigeria.....	—	3,373	—	—	—
Totals.....	5,157,397	5,964,799	5,861,446	5,334,592	4,841,895

Source: Trade of Canada, "Imports by Commodities", Catalogue No. 64-007.

TABLE 12. Exports of Iron Ore, (Crude, Concentrated, Agglomerated) 1966

Country to which exported	Direct shipping grade	Concentrated	Agglomerated	Other grades n.e.s.
short tons (2,000 pounds)				
United Kingdom	307,842	1,595,768	584,438	—
Germany, West	—	596,235	133,246	—
Japan	—	1,892,138	—	—
Italy	614,766	3,057,732	349,356	—
Netherlands	—	417,225	180,468	—
Austria	—	—	18	—
United States	6,757,893	9,929,671	9,964,341	543,878
Belgium - Luxembourg	—	93,951	—	—
France	—	—	69,887	—
Sweden	—	40,093	—	—
Totals	7,680,501	14,870,813	11,281,754	543,926

Source: Trade of Canada, "Exports by Commodities", Catalogue No. 65-004.

TABLE 13. Iron Blast Furnaces Charges,¹ 1965 and 1966

	1965	1966
tons (2,000 pounds)		
Crude iron ore:		
From Canadian mines	442,786	626,012
From foreign mines	1,375,407	1,070,856
Pyrite cinder	2	2
Iron ore (sintered, pelletized, etc.):		
From Canadian mines	3,157,365	4,245,354
From foreign mines	3,714,208	2,986,219
From own processing	1,701,493	952,333
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	346,086	300,415
Scrap iron and steel	106,691	173,453
Limestone	757,770	579,812
Dolomite	544,740	536,445
Coke	3,947,400	4,028,725

¹ Does not include charges into furnaces used in the smelting of titanium ores.² Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

TABLE 14. World Production of Iron Ore, by Countries

Taken from "Minerals Yearbook" published by the United States Bureau of Mines

Country	1962	1963	1964	1965	1966
thousands of long tons					
North America:					
Canada	24,428	26,914	34,219	35,678	36,158
Cuba ¹	1	1	1	1	—
Dominican Republic	—	—	—	—	—
Guatemala ¹	5	6	7	8	8
Mexico (60% Fe equivalent)	1,790	2,291	2,284	2,613	2,271
United States ²	71,829	73,599	84,836	87,439	90,147
South America:					
Argentina	121	98	93	114	152
Brazil	10,567	11,042	16,694	17,873	20,700
Chile	7,964	8,373	9,697	12,520	12,054
Colombia	669	684	699	695	653
Peru	5,855	6,516	6,425	6,992	7,664
Uruguay	—	1	2	2 ¹	—
Venezuela	13,057	11,562	15,409	17,234	17,473

See footnotes at end of table.

TABLE 14. World Production of Iron Ore, by Countries - Concluded

Country	1962	1963	1964	1965	1966
thousands of long tons					
Europe:					
Albania	419	255	345	364 ¹	364 ¹
Austria	3,692	3,675	3,597	3,480	3,420
Belgium	80	94	60	90	122
Bulgaria	625	645	705	1,773	2,567
Czechoslovakia	3,422	3,357	2,801	2,531	2,209
Finland ²	299	360	466	669	646
France	65,254	56,978	59,976	58,592	54,181
Germany: East	1,616	1,635	1,608	1,604	1,570 ¹
West	16,380	12,694	11,430	10,676	9,318
Greece	209	35	59	295	15 ¹
Hungary	671	721	763	750	735
Italy	1,133	1,008	862	773	772
Luxembourg	6,404	6,880	6,575	6,215	6,425
Norway	1,919	1,967	2,089	2,425	2,322
Poland	2,398	2,568	2,638	2,817	3,006
Portugal	258	259	212	208	183
Rumania	1,711	2,250	1,901	2,440	2,639
Spain	5,670	5,111	5,026	5,597	4,989
Sweden	22,170	23,264	26,199	29,019	27,761
Switzerland	102 ¹	94	89	111	65
U.S.S.R. ^{4,5}	126,088	135,331	143,553	151,009	157,474
United Kingdom	15,277	14,912	16,326	15,415	12,457
Yugoslavia	2,155	2,261	2,271	2,464	2,454
Africa:					
Algeria	2,029	1,945	2,696	3,083	1,670 ¹
Angola	740	628	885	802	779
Guinea, Republic of	698	652	894	743	590 ¹
Liberia	3,660	7,401	12,794	15,707	16,593
Mauritania	984	1,652	5,000	6,185	7,044
Morocco	1,131	1,019	874	936	1,001
Rhodesia, Southern	609	645	811	1,340 ¹	777
Sierra Leone	1,843	1,882	1,962	2,110	2,268
South Africa, Republic of ⁶	4,263	4,390	4,754	5,724	6,690
South-West Africa	—	15	9	32	37
Sudan	20	—	7	34	38
Swaziland	—	—	59	1,004	1,566
Tunisia	749	851	924	1,099	1,248
United Arab Republic (Egypt)	454	481	440	499	435
Asia:					
Burma	9	4	—	5	10
China, mainland ^{1,8}	29,500	34,400	36,400	38,400	39,400
Hong Kong	111	112	114	132	135
India (including Goa)	18,505	19,679	21,025	23,286	25,920
Iran ⁹	10	21	20 ¹	59	59 ¹
Japan ¹⁰	2,546	2,387	2,517	2,470	2,338
Korea, North	3,287	3,799	4,724	5,800 ¹	5,900 ¹
Korea, South	464	493	674	723	777
Lebanon	—	—	—	—	—
Malaysia	6,508	7,264	6,465	6,873	5,763
Pakistan ¹¹	—	—	5	23	5
Philippines	1,365	1,363	1,345	1,415	1,443
Taiwan ¹²	6	5	7	14	15
Thailand	44	16	188	738	681
Turkey	800	735	961	1,506	1,594
Oceania:					
Australia	4,843	5,515	5,668	6,696	11,425
Fiji	6	1	—	3	—
New Caledonia	298	294	302	275	217
World total (estimate) ¹	499,710	515,090	572,364	608,202	618,619

¹ Estimate.² Includes by-product ore.³ Iron concentrates and pellets.⁴ U.S.S.R. in Asia included with U.S.S.R. in Europe.⁵ Data represents iron concentrates of approximately 60 per cent iron.⁶ By-product magnetite is produced as follows: 1962-276,547; 1963-521,260; 1964-845,449; 1965-892,512 and 1966-878,218.⁷ Less than 1/2 unit.⁸ Roughly equivalent of 50 per cent iron.⁹ Year ending March 20 of year following that stated.¹⁰ Includes iron sand production as follows: 1962, 1,419,744 tons; 1963, 1,274,748 tons; 1964, 1,402,814 tons; 1965, 1,369,160 and 1966, 1,240,033 tons.¹¹ Developed principally during exploration activities.¹² Principally magnetite sands with ilmenite.

TABLE 15. Drilling Completed on Iron Ore Deposits of Producing Mines,¹ 1965-66

	Footage drilled	
	1965	1966
Diamond drilling for exploration and testing:		
By mining companies with their own personnel and equipment	1,049	14,927
By diamond drilling contractors	205,223	164,765
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	363,220	—
By diamond drilling contractors	49,242	1,082
Drilling by percussion or other machines ²	6,571,084	4,810,971

¹ Data are not comparable to those published in earlier years when non-producing mines were included.² Not complete as records are unobtainable at certain mines.TABLE 16. Specified Taxes Paid by Companies Engaged in Iron Mines Operations,¹ 1965-66

	1965	1966
	\$'000	
Dominion income taxes, including taxes non-operating revenue	2,121	1,913
Provincial taxes	6,144	8,761
Municipal taxes	3,292	4,307
Totals	11,557	14,981

¹ (a) Data are not comparable to those published in earlier years when non-producing mines were included.

(b) Includes related corporate activities associated with operations of iron mines.

TABLE 17. Miscellaneous Expenditures Made by Companies Engaged in Iron Mines Operations,¹ 1966

	Thousand of dollars
(a) Workmen's compensation	1,766
(b) Silicosis assessment	179
(c) Unemployment insurance	238
(d) Aggregate cost of structures, roads, machinery, equipment, etc., built by or purchased from outside contractors or suppliers and chargeable to Fixed Assets Account	64,400
(e) Book value of fixed assets (new structures, roads, machinery, equipment, etc., including major repairs and alterations) produced by own employees and chargeable to Fixed Assets Account	2,004
(f) Other capital expenditures not reported in (d) and (e)	5,634
(g) Cost of materials and supplies used in the production of machinery and equipment and in the construction of roads and new structures (including major repairs and alterations by own employees and chargeable to Fixed Assets Account)	1,524
(h) Cost of office supplies used during the year, not chargeable to Fixed Assets Account. Excludes cost of stamps and meter expenses	468

¹ Includes related corporate activities associated with Canadian operations of iron mines not allocable separately elsewhere.

List of Establishments classified to this Industry, 1966

(Does not include establishments classified to other industries which recover iron ore as a secondary activity)

Name of firm	Head office and address	Location of mine or plant
Newfoundland:		
Dosco Industries Ltd. (Wabana Mines)	Box 249, Quebec	Bell Island
Iron Ore Company of Canada Ltd.	Sept-Îles, Quebec	Labrador
Iron Ore Company of Canada Ltd.	Sept-Îles, Quebec	Carol Lake
Wabush Iron Mines	Box 878, Sept-Îles, Quebec	Labrador
Quebec:		
Hilton Mines Ltd. (The)	2000 Union Commerce Bldg., Cleveland 14, Ohio, U.S.A.	Bristol Twp.
Iron Ore Company of Canada Ltd.	Sept-Îles	Schefferville
Quebec Cartier Mining Co.	Port Cartier	Saguenay
Ontario:		
Algoma Ore Properties Division (Algoma Steel Corp. Ltd.)	Cornwall Bldg., Sault Ste. Marie	Algoma District
Caland Ore Co. Ltd.	Box 1300, Atikotan	Rainy River
Jones & Laughlin Steel Corp.	3 Gateway Centre, Pittsburg, Pa., U.S.A.	Kirkland Lake
Marmorat Mining Co. Ltd.	Marmora	Marmora
National Steel Corp. of Canada Ltd.	Box 310, Capreol	Moose Mountain
Steep Rock Iron Mines Ltd.	Steep Rock Lake	Rainy River District
British Columbia:		
Brynnor Mines Limited	44 King St. W., Toronto 1, Ontario	Kennedy Lake
Empire Development Co. Ltd.	1017 Vancouver Block, 736 Granville St., Vancouver 2 ...	Benson Lake
Jedway Iron Ore Ltd.	1111 West Georgia St., Vancouver	Moresby Island
Texada Mines Ltd.	Box 10, Gillies Bay	Texada Island
Zeballos Iron Mines Ltd.	1112 W. Pender St., Vancouver	Zeballos

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