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CANADA



# THE SAND AND GRAVEL INDUSTRY 1951

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## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume I consists of the following parts:

Part I—Mineral Statistics

Part II—Forestry Statistics—Operations in the Woods

Part III—Fisheries Statistics

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

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

# THE SAND AND GRAVEL INDUSTRY

## 1951

The commercial production of sand and gravel in Canada during 1951 amounted to 92,972,821 short tons valued at \$44,627,559 compared with 73,095,163 tons valued at \$36,434,759 in 1950, an increase of 27.2 per cent in tonnage and 22.5 per cent in value. These totals include sand and gravel used by railroads as ballast, gravel used by mines as back fill, and recoveries of sand by dredges, as well as similar materials from other sources.

Sand and gravel production in Ontario amounting to 39,218,058 tons in 1951 was 29 per cent higher than in 1950; in Quebec this year's output of 31,297,949 tons represented an increase of 54 per cent.

Sand and gravel plants in Canada washed or screened 12,849,635 tons in 1951 compared with 11,783,282 tons in 1950, and the bank or pit-run grades amounted to 80,123,186 tons compared with 61,311,881 tons in 1950.

The industry employed 4,060 persons to whom \$9,904,254 were distributed as salaries and wages. The reported number of man-hours of labour for 3,777 workmen was 10,415,328 and for 283 administration and office employees it was 723,172. Fuel cost \$1,607,215 and 11,479,284 k.w.h. of electricity were purchased for \$186,336. Process supplies were valued at \$516,258.

Imports of sand and gravel amounted to 261,141 tons valued at \$213,628 in 1951 and exports were 370,398 tons worth \$358,626.

**TABLE 1. Principal Statistics<sup>1</sup> for the Sand and Gravel Industry, 1950 and 1951**

Province	Operators	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies	Gross value of products sold during year (f.o.b. works)
	No.	No.	\$	\$	\$	\$
<b>1950</b>						
Newfoundland .....	2	603	897,870	5,639	16,870	715,673
Nova Scotia .....	4	362	461,151	18,467	2,138	1,473,069
New Brunswick .....	3	255	460,549	1,975	2,358	2,861,125
Quebec .....	982	1,010	2,057,027	185,943	66,632	6,933,758
Ontario .....	712	1,310	3,011,531	1,107,458	157,289	15,213,802
Manitoba .....	12	81	197,672	26,349	37,272	654,074
Saskatchewan .....	60	85	160,293	55,328	36,066	1,375,075
Alberta .....	8	59	160,657	45,031	5,154	2,421,834
British Columbia .....	34	355	949,971	126,411	11,065	3,622,789
<b>Total .....</b>	<b>1,817</b>	<b>4,120</b>	<b>8,356,721</b>	<b>1,572,601</b>	<b>334,844</b>	<b>35,271,199</b>
<b>1951</b>						
Newfoundland .....	2	557	962,525	8,283	34,230	607,242
Nova Scotia .....	3	210	453,055	13,494	1,177	1,508,276
New Brunswick .....	3	176	324,570	3,160	3,640	2,104,710
Quebec .....	992	1,129	2,823,286	248,106	110,404	10,289,258
Ontario .....	747	1,415	3,700,922	1,255,981	186,117	19,565,806
Manitoba .....	14	111	272,541	50,391	88,247	765,986
Saskatchewan .....	51	75	261,600	38,474	63,817	1,792,928
Alberta .....	12	71	206,224	59,057	18,994	3,051,682
British Columbia .....	37	316	899,531	116,605	9,632	3,541,094
<b>Total .....</b>	<b>1,861</b>	<b>4,060</b>	<b>9,904,254</b>	<b>1,793,551</b>	<b>516,258</b>	<b>43,226,982</b>

1. Does not include data on sand and gravel produced by railroads. In 1951 the railroads production by 28 operators was 6,018,934 tons valued at \$1,400,577. Salaries and wages paid to workers at these pits were \$510,305 for the year. In 1950 the railroads production by 25 operators was 5,054,517 tons valued at \$1,163,560 and salaries and wages totalled \$355,719.

TABLE 2. Production<sup>1</sup> of Sand and Gravel, 1942-1951

Year	Tons	Value \$
1942.....	26,349,907	9,005,414
1943.....	25,744,469	9,005,857
1944.....	28,399,986	10,280,119
1945.....	29,750,703	10,568,363
1946.....	39,949,994	15,529,700
1947.....	56,789,569	23,114,431
1948.....	68,670,863	30,629,596
1949.....	63,356,308	31,181,541
1950.....	73,095,163	36,434,759
1951.....	92,972,821	44,627,559

1. Does not include production of natural silica sand or of silica sand manufactured from quartz or silica rock; production of these is recorded under quartz.

TABLE 3 Production of Sand and Gravel, 1950 and 1951

	Washed or screened	Bank or pit-run	Total value
	tons	tons	\$
1950			
Production <sup>1</sup> :			
Sand:			
Moulding sand .....	29,030	9,710	105,909
Building sand and sand for concrete, road-work, etc. ....	4,064,310	2,786,029	4,151,672
Core sand .....	—	1,534	2,946
Other sand (including blast sand, engine sand, etc.) .....	10,893	116,974	41,475
Sand and gravel:			
Sand and gravel for railway ballast .....	266,010	4,866,361	1,361,439
Sand and gravel for concrete, road-building, etc. ....	4,671,189	45,097,045	24,512,834
Mine filling .....	19,171	3,366,213	800,988
Crushed gravel .....	2,722,679	5,068,015	5,457,496
<b>Total .....</b>	<b>11,783,282</b>	<b>61,311,881</b>	<b>36,434,759</b>
1951			
Production <sup>1</sup> :			
Sand:			
Moulding sand .....	28,075	8,346	86,900
Building sand and sand for concrete, road-work, etc. ....	4,751,310	3,221,430	5,116,901
Core sand .....	—	1,855	3,490
Other sand (including blast sand, engine sand, etc.) .....	50,296	313,484	158,699
Sand and gravel:			
Sand and gravel for railway ballast .....	675,854	6,315,335	2,291,532
Sand and gravel for concrete, road-building, etc. ....	3,984,548	58,320,692	27,941,202
Mine filling .....	85,330	3,326,896	950,941
Crushed gravel .....	3,274,222	8,615,148	8,077,894
<b>Total .....</b>	<b>12,849,635</b>	<b>80,123,186</b>	<b>44,627,559</b>

1. Does not include production of natural silica sand or of silica sand manufactured from quartz or silica rock; production of these is recorded under quartz in the Bulletin, "The Feldspar and Quartz Mining Industry".

TABLE 4. Production of Sand and Gravel, by Provinces, 1949-1951

Province		1949	1950	1951
Newfoundland.....	Tons	1,416,202	1,619,389	1,483,951
	\$	999,598	780,315	648,346
Prince Edward Island.....	—		(No commercial production)	
Nova Scotia.....	Tons	1,933,652	1,600,932	1,756,641
	\$	1,738,114	1,488,593	1,527,052
New Brunswick.....	Tons	3,142,633	4,789,585	2,966,210
	\$	1,106,479	2,997,779	2,229,258
Quebec.....	Tons	19,179,692	20,313,415	31,297,949
	\$	7,326,456	7,172,632	10,616,701
Ontario.....	Tons	22,320,753	30,271,214	39,218,058
	\$	11,214,136	15,551,406	19,905,293
Manitoba.....	Tons	2,260,196	2,720,951	2,832,110
	\$	696,783	721,494	929,989
Saskatchewan.....	Tons	1,930,959	2,104,797	2,951,813
	\$	1,795,766	1,439,870	1,874,071
Alberta.....	Tons	2,448,814	3,866,662	4,289,021
	\$	1,553,589	2,572,795	3,194,446
British Columbia.....	Tons	8,723,407	5,808,218	6,177,068
	\$	4,750,620	3,709,875	3,702,403
<b>Canada.....</b>	<b>Tons</b>	<b>63,356,308</b>	<b>73,095,163</b>	<b>92,972,821</b>
	<b>\$</b>	<b>31,181,541</b>	<b>36,434,759</b>	<b>44,627,559</b>

TABLE 5. Production of Washed or Screened and Pit-Run Grades, by Provinces, 1951

Province	Washed or screened	Bank or pit-run	Total
		Tons	
Newfoundland.....	68,801	1,415,150	1,483,951
Nova Scotia.....	265,715	1,490,926	1,756,641
New Brunswick.....	20,520	2,945,690	2,966,210
Quebec.....	1,552,516	29,745,433	31,297,949
Ontario.....	8,107,145	31,110,913	39,218,058
Manitoba.....	184,938	2,647,172	2,832,110
Saskatchewan.....	33,605	2,918,208	2,951,813
Alberta.....	607,853	3,681,168	4,289,021
British Columbia.....	2,008,542	4,168,526	6,177,068
<b>Total.....</b>	<b>12,849,635</b>	<b>80,123,186</b>	<b>92,972,821</b>

TABLE 6. Production for Building and for Concrete, Roads, etc., by Provinces, 1951

	Sand		Sand and gravel			
	For building, concrete, roads, etc. <sup>1</sup>		For railway ballast		For concrete, roads, etc.	
	Tons	\$	Tons	\$	Tons	\$
Newfoundland.....	31,466	71,371	209,014	38,658	1,241,378	537,932
Nova Scotia.....	20,499	14,317	299,613	156,266	1,434,965	1,348,649
New Brunswick.....	89,768	48,209	266,369	40,116	2,482,742	2,056,760
Quebec.....	3,441,463	1,571,619	1,215,565	326,902	19,978,164	4,938,510
Ontario.....	3,808,217	2,900,710	2,772,899	879,648	25,223,846	11,815,847
Manitoba.....	123,744	89,680	346,296	166,773	2,111,898	484,597
Saskatchewan.....	56,985	58,505	462,675	84,328	1,929,133	1,357,819
Alberta.....	159,244	208,320	514,305	139,715	3,496,984	2,715,536
British Columbia.....	241,354	154,170	904,453	459,126	4,406,124	2,685,552
<b>Canada.....</b>	<b>7,972,740</b>	<b>5,116,901</b>	<b>6,991,189</b>	<b>2,291,532</b>	<b>62,305,240</b>	<b>27,941,202</b>

1. Exclusive of engine and other sands and mine fill.

TABLE 7. Production of Moulding and Core Sand and Crushed Gravel, by Provinces, 1951

Province	Moulding sand and core sand		Crushed gravel	
	Tons	\$	Tons	\$
Newfoundland .....	—	—	—	—
Nova Scotia .....	1,564	7,820	—	—
New Brunswick .....	—	—	125,955	83,970
Quebec .....	—	—	6,123,718	3,625,808
Ontario .....	36,222	82,003	4,620,959	3,516,431
Manitoba .....	414	455	238,730	181,229
Saskatchewan .....	76	112	191,967	199,292
Alberta .....	—	—	118,488	130,875
British Columbia .....	—	—	469,553	340,289
<b>Canada, 1951 .....</b>	<b>38,276</b>	<b>90,390</b>	<b>11,889,370</b>	<b>8,077,894</b>
<b>Canada, 1950 .....</b>	<b>40,274</b>	<b>108,855</b>	<b>7,790,694</b>	<b>5,457,496</b>

TABLE 8. Employees and Their Earnings in the Sand and Gravel Industry, 1947-1951

Year	Average number of employees					Earnings		
	Administrative and office		Workmen		Total	Adminis- trative and office	Workmen	Total
	Male	Female	Male	Female				
						\$	\$	\$
1947 .....	122	25	3,273	10	3,430	291,568	4,416,393	4,707,961
1948 .....	125	29	4,033	10	4,197	351,484	6,400,619	6,752,103
1949 .....	151	31	3,669	12	3,863	452,879	6,694,455	7,147,334
1950 .....	223	58	3,824	15	4,120	692,892	7,663,829	8,356,721
1951 .....	226	57	3,759	18	4,060	893,358	9,010,896	9,904,254

TABLE 9. Workmen<sup>1</sup> in the Sand and Gravel Industry, by Months, 1950 and 1951

Month	1950			1951		
	Male	Female	Total	Male	Female	Total
	(Number)					
January .....	1,101	3	1,104	1,232	5	1,237
February .....	1,151	2	1,153	1,291	5	1,296
March .....	1,369	3	1,372	1,409	6	1,415
April .....	1,645	15	1,660	2,149	18	2,167
May .....	5,724	19	5,743	6,650	20	6,670
June .....	10,244	20	10,264	8,397	22	8,419
July .....	9,842	20	9,862	8,130	22	8,152
August .....	4,685	21	4,706	4,973	22	4,995
September .....	3,851	23	3,874	4,201	23	4,224
October .....	2,345	22	2,367	2,473	23	2,496
November .....	2,130	19	2,149	2,412	20	2,432
December .....	1,567	7	1,574	1,566	12	1,578
<b>Average .....</b>	<b>3,824</b>	<b>15</b>	<b>3,839</b>	<b>3,759</b>	<b>18</b>	<b>3,777</b>

Man-hours worked in 1951:

Administrative and office .....	723,172
Workmen .....	10,415,328

1. This report does not include employment data relating to the production of sand and gravel by railroads owing to the difficulty of separating statistics pertaining to part-time work conducted by railroad maintenance employees and work done by contractors. In 1951 the combined amount paid by railroads to contractors and wages paid railroad employees for the production of sand and gravel totalled \$510,305.

## List of Principal Sand and Gravel Operators, 1951

In addition to the names listed below, production has been reported by the railway companies for ballast, and also a considerable amount by counties and townships in Ontario for road use.

(w) Markets washed or screened material.

Name of firm	Head office address	Location
<b>Newfoundland:</b>		
Concrete Products (Nfld) Limited (w) .....	Box 2161, St. John's .....	Seal Cove
Newfoundland Department of Highways .....	St. John's .....	Various
<b>Nova Scotia:</b>		
Crockett, V. B. ....	Wallace .....	Belmont
Nova Scotia Department of Highways .....	Halifax .....	Various
Rayner Construction Ltd (w) .....	29 Commercial Road, Leaside, Ontario .....	Debert
<b>New Brunswick:</b>		
Likely, Jos. A., Ltd. ....	Box 655, Saint John .....	East Saint John
Maxwell, Elmer .....	St. Stephen .....	Charlotte County
New Brunswick Department of Highways .....	Fredericton .....	Various
<b>Quebec:</b>		
Allard Lake (Quebec) Mines Ltd. ....	1510 Drummond St., Montreal .....	Ternet Tp.
Allen, W. ....	St. Henri .....	Levis Co.
Asbestos Corporation Limited .....	Thetford Mines .....	Thetford Mines
Aube, A. ....	Milan .....	Whitton Tp.
Baillargeon, Philippe .....	22, rue Montcalm, Iberville .....	Ste-Philomène and Mont St-Grégoire
Belleterre Quebec Mines Limited .....	25 King St. W., Toronto, Ontario .....	Guillet Tp.
Bonner Sand and Ballast Limited (w) .....	1434 St. Catherine St. W., Montreal .....	South Durham
Bouchard, Edmond, Limitée (w) .....	Lemieux .....	Lemieux
Boucher, J.L. ....	St-Georges .....	Valley Junction
Brique du Nord Limitée, La (w) .....	Rouyn .....	Rouyn
Burnside, Chas. ....	1009 Wellington St., Ottawa, Ontario .....	Chelsea
Canadian Johns-Manville Co. Ltd. ....	1062 Sun Life Bldg., Montreal .....	Shipton
Casaubon, N. ....	St-Edouard .....	St-Edouard
Chabot, Bernard .....	St-Jean-Baptiste .....	St-Jean-Baptiste
Chabot, Donat .....	St-Jean-Baptiste .....	St-Jean-Baptiste
Chartier, Donat .....	30 Galt St., Sherbrooke .....	Compton Co.
Cie de Sable & de Gravier Montmorency Ltée .....	245 Royale, Montmorency .....	Montmorency
Cie de Sable & Gravier de St. André .....	St-André Est. ....	St-André Est.
Cie de Sable & Gravier St. Paul Ltée .....	263, rue Principale, Granby .....	St-Paul d'Abbotsford
Coaticook, City of (w) .....	Coaticook .....	Coaticook
Compagnie de Sable Limitée, La (w) .....	20-3ième Ave., Quebec .....	Beauport Est.
Consolidated Oka Sand & Gravel Co. Limited .....	248 McCord St., Montreal .....	Lake of Two Mountains
Des Marais, Mde. (w) .....	St-Félix de Valois .....	St-Félix de Valois
Desourdy, Louis .....	St-Hilaire Station .....	St-Hilaire Station
Dugas, A. ....	Notre Dame de Lourdes .....	Joliette Co.
East Malartic Mines Limited .....	355 St. James St. W., Montreal .....	Fournier Tp.
Fontaine, L. ....	L'Avenir .....	L'Avenir
Fortin & Frère .....	Hemmingford .....	Valleyfield, St-Stanislas, and Ormstown
Gagnon, Arthur .....	1740-41ème rue, Grand'Mère .....	Grand'Mère
Gaucher, Paul .....	Rougemont .....	Rouville Co.
Gauthier, Ovila, Limitée .....	550 Price St. W., Chicoutimi .....	Taillon Tp.
Goyer, Edouard & Frère .....	St-Bruno .....	St-Bruno and St-Hilaire
Granby, City of .....	Granby .....	Granby
Hains, A., Limitée .....	837, Ave Royale, Beauport .....	Ste-Thérèse-de-Lisieux
Laberge .....	Ste-Foy .....	Ste-Foy
Magog, City of .....	Magog .....	Magog
Malartic Gold Fields Limited .....	355 St. James St. W., Montreal .....	Abitibi
Marchand & Frère .....	505-108ième rue, Shawinigan Falls .....	Mont-Carmel
Marois, Donat .....	St-Joachim .....	Shefford Co.
Mascouche Sand & Construction Limited .....	11501 est, rue Notre-Dame, Montréal .....	Mascouche
Mercure, Camille .....	555, rue St-Denis, St-Hyacinthe .....	St-Dominique
Modern Paving (Quebec) Limited .....	Bon Conseil .....	Ste-Clothilde de Horton
Mount Royal Paving & Supplies Limited (w) .....	6301 Park Ave., Montreal 15 .....	Charette

## List of Principal Sand and Gravel Operators, 1951 - Continued

Name of firm	Head office address	Location
<b>Quebec - Concluded:</b>		
Normetal Mining Corporation Limited .....	350 Bay St. W., Toronto 1, Ontario .....	Abitibi
Northern Quebec Power Co. Limited (w) .....	355 James St. W., Montreal .....	Temiskaming
O'Connell, H.J., Limited (w) .....	509 Canada Cement Bldg., Montreal .....	St. Jean Co.
Ouellet, Lucien .....	Ste-Foy .....	Ste-Foy
Pic Construction Co Ltée .....	Arvida .....	Bagotville
Quemont Mining Corporation Limited .....	44 King St. W., Toronto 1, Ontario .....	Rouyn
Robert & Dufour Enrg. ....	929, Ave Royale, Beauport .....	Ste-Thérèse
St. Francis River Dredging Co. (w).....	St. Francois du Lac .....	St. Francois River
St. Hilaire, N., Inc. ....	New Liverpool .....	Chaudière-Bassin
Sables des Milles Iles Ltée, La .....	19, rue Dupont, Montréal.....	St-Henri de Mascouche
Shawinigan Engineering Co. Ltd. ....	600 Dorchester St. W., Montreal.....	Trenche
Standard Lime Company Limited (w).....	Joliette .....	Ste-Emelle
Two Mountains Sand Co. Ltd. (w) .....	517, Canada Cement Bldg., Montreal .....	Pointe Calumet
Venne, Oscar .....	Lachenaie .....	Lachenaie
<b>Ontario:</b>		
Algoma Steel Corporation Limited.....	Sault Ste. Marie .....	East Korah Tp.
Allison, H. ....	Morewood .....	Winchester Tp.
Armstrong Bros. Const. (w) .....	Brampton .....	E. Chinguacousy Tp.
Armstrong, John .....	Leonard .....	Cumberland
Axford, K.R. ....	35 Elm St., St. Thomas .....	South Yarmouth
B.Y.W. Construction Co. Ltd. ....	Kapuskasing .....	Kearns
Baker, D. ....	Gormley .....	Wilcox Lake
Barnes, Wm. R., Co. Ltd. (w).....	243 Cumberland Ave., Hamilton.....	Hamilton
Bath, A. ....	Meaford .....	St. Vincent Tp.
Bellyou, N. ....	R.R. 4, Trenton .....	Trenton
Blake, John .....	453 Leslie St., Toronto.....	Scarboro
Bluewater Crushed Stone (w) .....	Owen Sound .....	Amabel Tp.
Blyth, R.A. (w).....	7 St. Andrews Gardens, Toronto .....	Various
Bolton Construction Co. ....	Bolton.....	Peel Co.
Boyd Bros. ....	Osgoode .....	Carleton Co.
Boyd, Morley (w) .....	123 Coldwater Rd., Orillia .....	Orillia Tp.
Braas Bros. ....	R. R. 3, Niagara Falls .....	Stamford Tp.
Brett's Warehouse .....	Box 489, Kenora.....	Jaffray Tp.
Brewer, R.J. (w) .....	Goderich .....	Goderich
Buckham, J.H. ....	Kinburn .....	Fitzroy Tp.
Burford Sands (w).....	R.R. 2, Burford .....	Burford
Burrows, J.W. ....	647 Lavery St., North Bay .....	Widdifield Tp.
Burton, C. ....	64 Bartel St., Chatham .....	Thames River
Cadwell Marine Ltd. ....	Niagara Falls .....	Niagara River
Calaguito Bros. (w) .....	Niagara Falls .....	Stamford Tp.
Campbell, Max .....	Ilderton .....	Lobo Tp.
Cann, Wm. ....	R.R. 1, Hensall .....	Usborne Tp.
Cardinal Construction Ltd. (w) .....	Box 243, Cardinal .....	Various
Carpenter, G.R. (w) .....	Winona .....	Winona
Caswell Construction Limited .....	Kirkland Lake.....	Matheson
Cecchetto & Sons Limited .....	Sudbury .....	Levack
Chamney, R. ....	Belgrave .....	Belgrave
Charlebois, A. (w) .....	Penetang .....	Penetang
Chatham Sand & Gravel Co. (w).....	Chatham .....	Thames River
Chefero, J. (w) .....	506 Westmount Ave., Toronto.....	Maple
Chown Limited .....	Kingston .....	Kingston
City Gravel Company.....	775 Algonquin Ave., North Bay .....	Widdifield Tp.
Clark, R.S., & Son (w).....	Ingersoll .....	Ingersoll
Clarkson Sand & Gravel (w) .....	Clarkson .....	Clarkson
Closs, R.S. ....	Perth .....	Lanark Tp.
Coleman, Cameron .....	R.R. 2, Cornwall .....	Cornwall Tp.
Coleman Munro Limited (w) .....	628 Pitt St., Cornwall .....	Moulinette
Consolidated Sand & Gravel Limited (w) .....	402 Harbour Commission Bldg., Toronto.....	Fuller, Paris, and Waterford
Cooke, J., Ltd. (w) .....	Aldershot.....	Aldershot
Cooper, Alf, & Company (w).....	212 May St. N., Fort William .....	Paipoonge Tp.
Cornwall Gravel Co. (w) .....	Cornwall .....	Cornwall Tp.
Cox Construction Co. (w) .....	Hillsburgh .....	Hillsburgh
Crosby, Wm. ....	Princeton.....	Blenheim Tp.
Cross Supplies & Paving Limited (w) .....	1272 Windsor Ave., Windsor .....	Windsor
Croxall, E. ....	Brooklin .....	Brooklin
Cudmores' Gravel .....	Hensall .....	Usborne Tp.
Curran & Briggs Limited (w) .....	61 Haverson Blvd., Toronto .....	Pickering Tp.

List of Principal Sand and Gravel Operators, 1951 - Continued

Name of firm	Head office address	Location
<b>Ontario - Continued:</b>		
Davis, O.	Minesing	Vespra Tp.
Davy, Sidney	Severn Bridge	Rama Tp.
Dennis, C.M.	Atwood	Grey Tp.
Dibblee Construction Co. Ltd.	248 Albert St., Ottawa	Carleton Co.
Dixie Sand & Gravel Ltd.	21 Dundas Square, Toronto	Dixie
Doey Bros. Sand & Gravel	Cedar Springs	Cedar Springs
Dome Mines Limited	South Porcupine	Shaw Tp.
Dowler, Bert	Billings Bridge	Billings Bridge
Duff J.C., Limited (w)	Bolton	York Co.
Dunn, Mrs R.	Woodstock	E. Zorra Tp.
Durham Crushed Stone Ltd. (w)	Durham	Durham
Eastern Gravel & Crushed Stone Ltd. (w)	2319 Bloor St. W., Toronto	Dixie
Egerdee, A.W.	New Dundee	Wilmot Tp.
Ellins Bros. (w)	304 Scarlett Rd., Toronto 9	Toronto
Elliott's Cartage (w)	Kapuskasing	O'Brien Tp.
Falconbridge Nickel Mines Limited	44 King St. W., Toronto	Falconbridge Tp.
Farrish Bros.	Listowel	Listowel
Ferguson, D.	R.R. 2, Brockville	Augusta Tp.
Fewster, S.	R.R. 4, St. Marys	Oxford Co.
Fielding, C.A., Ltd.	Sudbury	Garson Tp.
Fitkin, P.	1997 Keele St., Toronto 9	Maple
Forwell Sand & Gravel Ltd. (w)	31 Whitney Place, Kitchener	Breslau and Waterloo
Foster, R.R., & Sons Ltd. (w)	86 Spadina Ave., Ottawa	Bowesville
Foy, G.C.	Wardsville	Mosa Tp.
Galbraith, Mrs M. (w)	R.R. 2, Rodney	Rodney
Galt Sand & Gravel Co. Ltd.	Galt	Galt
Goodreau, John	Dresden	Dresden
Grandmaitre, D.	131 Montreal Rd., Eastview	Eastview
Greenwood Construction (w)	Grand Valley	Parry Sound
Griffin Bros. (w)	Gananoque	Leeds Co.
Grimo, Frank	Niagara Falls	Stamford Tp.
Guelph Sand & Gravel Limited (w)	Guelph	Wellington Co.
Guelph, City of	Guelph	Wellington Co.
Hacquoil's Construction (w)	228 W. Gore St., Fort William	Stanley
Halliburton, John, Estate	101 Strange St., Guelph	Guelph
Hall, Wilfred J.R.	Parry Sound	McDougall Tp.
Hampson Sand & Gravel	38 Prescott Ave., Toronto	Maple
Hargreaves, W. (w)	R.R. 5, Peterborough	Monaghan N. Tp.
Harvey Construction Co. Ltd.	R.R. 1, Kingston	Augusta Tp.
Harwich Tp. (w)	Blenheim	Beaver Creek
Hawkins, L.L.	Stevensville	Ridgeway
Hayward Construction Co. (w)	Hillsburg	Guelph Tp.
Hayward & Picket	Milton	Nelson Tp.
Hembruff, V.M.	Matheson	Matheson
Hepburn, M.	R.R. 5, St. Thomas	Yarmouth Tp.
Hern, E.	Kirkton	Usborne Tp.
Hett, J. (w)	R.R. 2, Kitchener	Parkway
Highland Creek Sand & Gravel Limited (w)	Highland Creek	Scarborough
Hollinger Consolidated Gold Mines Ltd.	Timmins	Tisdale Tp.
Holman Construction (w)	Rockwood	Rockwood
Howard Sand & Gravel Co. Ltd. (w)	Aldershot	East Flamboro Tp.
Hugh-Pam Porcupine Mines Ltd.	50 King St. W., Toronto	Whitney Tp.
Humphries, D.	West Lorne	Aldborough Tp.
Industrial Sand & Gravel Co. (w)	67 Gilmour Ave., Toronto	Glen Williams
Jackson, Mrs R.	Listowel	Luther W. Tp.
Jenkins, J. (w)	Morpeth	Morpeth
Jerome, A.P. (w)	Bothwell	Zone Tp.
Jones, J.D.	Wilton Grove	Wilton Grove
Kerr, J.E. (w)	Wingham	Wingham
Kettle, Mrs W.	R.R. 3, Petrolia	Enniskillen Tp.
King Paving Co. Ltd. (w)	Box 36, Oakville	Toronto Tp.
Kingston Sand & Gravel Ltd.	235 Wellington St., Kingston	Glenburnie
Kirkland, G. (w)	Lucknow	Ashfield
Lake Erie Gravel Co. (w)	R.R. 3, Merlin	Tilbury E. Tp.
Lake Shore Mines Ltd.	Kirkland Lake	Kirkland Lake
Langdon Manufacturing Co. (w)	235 William St., Stratford	Stratford
Lavant Construction Co. Ltd.	Lavant	Lanark Co.
Lavis Contracting Co.	Clinton	Hibbert Tp.
Leask, R. (w)	Greenbank	Greenbank
Lightbody, R. (w)	49 Main St., Smiths Falls	Elmsley S. Tp.
Liley, Wm.	London	London

## List of Principal Sand and Gravel Operators, 1951 - Continued

Name of firm	Head office address	Location
<b>Ontario - Continued:</b>		
Little Long Lac Gold Mines Ltd. ....	Geraldton .....	Geraldton
Lockyer & Hughes Limited .....	Highland Creek .....	Scarborough Tp.
Lyons, C.A. (w) .....	R.R. 1, Paris .....	S. Dumfries Tp.
M. & M. Construction .....	Tillsonburg .....	Dorchester Tp.
Markham Sand & Gravel Ltd. (w) .....	Markham .....	Markham
Marshall, J.F., & Sons Ltd. (w) .....	1067 Talbot St., London .....	Middlesex Co.
Martini, J. (w) .....	226 Dover St., South Preston .....	Dumfries Tp.
Mascioli Construction Co. Ltd. (w) .....	Timmins .....	Tisdale Tp.
Maskerine, Wm. J. ....	Sioux Lookout .....	Sioux Lookout
Maurer & Klages .....	Hanover .....	Brant Tp.
Maxted, F.A. ....	159 Rockcliffe Blvd., Toronto .....	York Tp.
McAdams, H. ....	Zurich .....	Hay Tp.
McColl, Wm. ....	Carleton Place .....	Lanark Co.
McCoy - Bell Construction Co. Ltd. ....	Stittsville .....	Carleton Co.
McCready, D. ....	R.R. 2, Thamesford .....	E. Nissouri Tp.
McDougall, A. ....	R.R. 3, Palmerston .....	Palmerston
McLaws, M.G., & Son .....	R.R. 4, St. Thomas .....	St. Thomas
McLean, A.B., & Son Ltd. (w) .....	Sault Ste. Marie .....	St. Marys River
McLellan, J.L. ....	R.R. 2, Thamesford .....	E. Nissouri Tp.
McRae, C. (w) .....	R.R. 1, Byron .....	Byron
Menard Construction .....	Green Valley .....	Kenyon Tp.
Miller Paving Limited (w) .....	56 Blake St., Toronto .....	Simcoe Co.
Morley, D. ....	R.R. 3, Ailsa Craig .....	McGillivray Tp.
Moyer Sand & Gravel Ltd. (w) .....	35 Queen St., St. Catharines .....	Pelham Tp.
Musselman, A. ....	Floradale .....	Floradale
Nash, J.R., & Son (w) .....	R.R. 2, Northwood .....	Harwich Tp.
National Sand & Material Co. Ltd. (w) .....	402 Harbour Bldg., Toronto .....	Lake Ontario, Lake Erie, St. Clair River and Lake Huron
Nevill, G. ....	R.R. 5, Aylmer .....	Malahide Tp.
Ninacs, G. ....	Niagara Falls .....	Stamford Tp.
Northern Sand & Gravel Co. ....	177 Eyre St., Sudbury .....	Neelon Tp.
Norton Sand & Gravel .....	Claremont .....	Uxbridge Tp.
Ontario Sand & Gravel Co. Ltd. (w) .....	1211 Bathurst St., Toronto .....	Maple
Park Bros. ....	Lucan .....	Biddulph Tp.
Parton, A. ....	Parry Sound .....	Parry Sound
Peel Construction Co. Ltd. ....	Brampton .....	Fullarton Tp.
Peninsula Sand Co. ....	Stamford Centre .....	Stamford Tp.
Pioneer Construction Co. Ltd. (w) .....	Box 241, Sudbury .....	Nipissing
Preston Sand and Gravel (w) .....	954 Coxwell Ave., Toronto .....	Preston
Price, S.A. ....	Kemptville .....	Kemptville
Pyne, H. (w) .....	Ridgetown .....	Lake Erie
Quigley Construction Company Limited .....	Bartonville .....	Waterdown
Reid, F. ....	Bell Ewart .....	Bell Ewart
Reid, W. ....	Varna .....	Varna
Roberts, F.H. (w) .....	Unionville .....	Whitchurch Tp.
Robertson, A.S. ....	Listowel .....	Halton Tp.
Robinson, F. (w) .....	West Lorne .....	Aldborough Tp.
Ross Supply & Contracting Co. Ltd. ....	55 Ann St., Brockville .....	Lyn and Maitland
Sandercock, C. ....	Sarnia .....	Sarnia Tp.
Sandy Contracting Co. Ltd. (w) .....	Goderich .....	Grey Tp.
Seegmiller, E. & E., Limited .....	525 Wendell Ave., Kitchener .....	Waterloo Tp.
Seeley Bros. & Arnill .....	Dundalk .....	Dundalk
Sharpe Bros. ....	Odessa .....	Odessa
Shelton, R. (w) .....	Ingersoll .....	Ingersoll
Shepherdson, W.W. ....	New Liskeard .....	New Liskeard
Sherk Construction .....	Sherkston .....	Pleasant Beach
Silverwood, A. ....	Huntsville .....	Chaffey Tp.
Simpson Sand Company Limited (w) .....	Smiths Falls .....	Escott Tp.
Speiran, G.A. ....	Brussels .....	Grey Tp.
Smith Construction Co. ....	Arnprior .....	Arnprior
Smythe, C., Limited (w) .....	899 Jane St., Toronto 9 .....	Toronto
Spinks & Fox Sand & Gravel Co. (w) .....	Leamington .....	Gosfield S. Tp.
Spratt, G.H. (w) .....	Billings Bridge .....	Billings Bridge
Springbank Sand & Gravel Ltd. (w) .....	Port Credit .....	Toronto Tp.
Stonehouse, F.A., & Son .....	Sarnia .....	Lobo Tp.
Stouffville Sand & Gravel Ltd. (w) .....	Stouffville .....	Uxbridge Tp.
Sulley, J. ....	Utopia .....	Vespra Tp.
Sutherland, H. ....	Embros .....	W. Zorra Tp.
Sutherland, Wm. J. ....	Bond Head .....	Tecumseth Tp.
Teed, E.A. ....	Thornbury .....	Collingwood Tp.
Telephone City Supply Co. (w) .....	Brantford .....	Grand River

## List of Principal Sand and Gravel Operators, 1951 - Continued

Name of firm	Head office address	Location
<b>Ontario - Concluded:</b>		
Thurston, M. (w) .....	Sarnia .....	Sarnia Tp.
Timmins, Town of .....	Timmins .....	Porcupine
Todd, A. and G. ....	Churchill .....	Innisfil Tp.
Totten, L. (w) .....	Renfrew .....	Renfrew
Tout, F. ....	Kincardine .....	Kincardine
Unger, F. ....	Brantford .....	Brantford Tp.
United Towing & Salvage Co. Ltd. (w) .....	635 Common St., Montreal, Quebec .....	Lake Superior
Uren Construction Limited (w) .....	Orillia .....	Orillia
VanAlstine Construction, J.D. ....	Trenton .....	Murray Tp.
Vollett, C. ....	Arthur .....	Arthur
Webster Sand & Gravel Ltd. (w) .....	211 Scarlett Rd., Toronto .....	York Tp.
West, S.J. ....	R.R. 3, Sarnia .....	Sarnia Tp.
Winters, H.E. (w) .....	Mille Roches .....	Cornwall Tp.
Wolfe Construction Limited .....	Timmins .....	Deloro Tp.
Woollatt Fuel & Supply Co. Ltd. (w) .....	2171 Ottawa St., Windsor .....	Leamington
Yundt & McCann .....	Stratford .....	Stratford
Yundt, B. ....	Stratford .....	Stratford
<b>Manitoba:</b>		
Alsip Brick, Tile & Lumber Company Ltd. ....	503 Portage Ave., Winnipeg .....	Beausejour
Becher, W.S.C., Limited .....	526 River Ave., Winnipeg .....	Springfield
Bradley, B. ....	Arden .....	Arden
Brandon, City of .....	Brandon .....	Brandon
Building Products & Coal Co. Ltd. ....	111 Christie St., Winnipeg .....	Birds Hill
Commonwealth Construction Co. Ltd. ....	300 Royal Bank Bldg., Winnipeg .....	Winnipeg
Conning & Dobbie .....	233 Ninth St., Brandon .....	Brandon
Erven & Fraser .....	850 Somerset Bldg., Winnipeg .....	Birds Hill
Greater Winnipeg Water District .....	185 King St., Winnipeg .....	Winnipeg
Howe Sound Exploration Co. Ltd. ....	Snow Lake .....	Herb Lake
Manitoba Department of Highways .....	Winnipeg .....	Various
McCurdy Supply Company Limited .....	Sargent & Erin Sts., Winnipeg .....	Winnipeg
San Antonio Gold Mines Limited .....	237 Curry Bldg., Winnipeg .....	Rice Lake
Tallman Gravel & Sand Supply Ltd. ....	678 Dufferin Ave., Winnipeg .....	Winnipeg
Winnipeg, City of .....	223 James Ave., Winnipeg .....	Birds Hill
<b>Saskatchewan:</b>		
Anderson, J.D. ....	Unity .....	Unity
Baron, V. ....	Burstall .....	Burstall
Becker, Clifford E. ....	Nipawin .....	Nipawin
Bernier, W. ....	Flin Flon .....	Flin Flon
Bonn, W. (w) .....	135-14th St. W., Prince Albert .....	Nisbet Forest
Brandhagen, Allen .....	233 Lorne St. W., Swift Current .....	Swift Current
Breckenridge Block & Tile Ltd. (w) .....	Box 54, Pangman .....	Pangman
Chester, F. ....	Paddockwood .....	Paddockwood
Collins, A.E. ....	Cut Knife .....	Cut Knife
Coulee, R.M. ....	Neidpath .....	Neidpath
Dieno, E. & J. ....	Leader .....	Leader
Fall, W. ....	Nipawin .....	Nipawin
Ferguson, Y.B. ....	Vesper .....	Vesper
Flin Flon, Town of .....	Flin Flon .....	Flin Flon
Gunn, G.F. ....	Carrot River .....	Carrot River
Hannah, H. ....	Waitville .....	Waitville
Harris, S. ....	Kipling .....	Kipling
Hoodoo, R.M. ....	Cudworth .....	Cudworth
Horosko Bros. ....	Rosetown .....	Rosetown
Howard's Transfer & Excavation Co. ....	Swift Current .....	Swift Current
Hudson Bay Mining and Smelting Co. Ltd. (w) ..	500 Royal Bank Bldg., Winnipeg, Manitoba .....	Flin Flon
Kewley, J.W. ....	Porcupine Plain .....	Porcupine Plain
Latrace, H. ....	Box 1162, Saskatoon .....	Saskatoon
Loveday, R. ....	Freemont .....	Freemont
Masters Limited .....	1507 Winnipeg St., Regina .....	Regina
McKay, Chas. ....	Garrick .....	Garrick
Meleschak, Peter .....	Fosston .....	Fosston
Northern Gravel & Equipment Co. (w) .....	225, Avenue "I" N., Saskatoon .....	Saskatoon
Orton, Wm. ....	Birsay .....	Birsay



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List of Principal Sand and Gravel Operators, 1951 - Concluded

Name of firm	Head office address	Location
<b>Saskatchewan - Concluded:</b>		
Parkinson, G. ....	Estevan .....	Estevan
Pilot Butte Sand & Gravel Co. Ltd. ....	Pilot Butte .....	Pilot Butte
Prince Albert, City of .....	City Hall, Prince Albert .....	Various
Pym, A.P. ....	Keatley .....	Keatley
Reardon, T. ....	Shaunavon .....	Shaunavon
Sandbeck, H. ....	Congress .....	Congress
Saskatchewan Department of Highways .....	Regina .....	Various
Schnell, Frank .....	Torquay .....	Torquay
Schwartz, A. ....	Rhein .....	Rhein
Sliding Hills Rural Municipality .....	Mikado .....	Mikado
Thompson, Mrs F. ....	Grenfell .....	Grenfell
Torgeson, N. ....	Limerick .....	Limerick
Western Sand & Gravel Co. Ltd. (w) .....	506 Westman Chambers, Regina .....	Belle Plaine
Woods, John .....	Pathlow .....	Pathlow
Wright, F.E. ....	Eastend .....	Eastend
Yeoman, P. ....	Lone Rock .....	Lone Rock
<b>Alberta:</b>		
Alberta Department of Highways .....	Edmonton .....	Various
Apex Building Supplies Ltd. ....	11239 - 83rd St., Edmonton .....	Edmonton
Baxter, A.G. (w) .....	908 - 4th Ave. W., Calgary .....	Calgary
Burns, J.F. (w) .....	213 Leeson-Lineham Bldg., Calgary .....	Calgary
Clarke & Sons (w) .....	Cochrane .....	Cochrane
Doncaster Construction Co. Ltd. (w) .....	Edmonton .....	Edmonton
Jefferies & Sons Limited (w) .....	Calgary .....	Calgary
Mountain View, Municipal District .....	Didsbury .....	Didsbury
O.K. Construction & Supply Co. Ltd. (w) .....	9531 - 111th Ave., Edmonton .....	Edmonton
Oilfield Sand & Gravel Company (w) .....	9th Ave. & 19th St. E., Calgary .....	Calgary
Olson, R.E. ....	High River .....	High River
Smith Construction Ltd. (w) .....	10358 - 77th Ave., Edmonton .....	Edmonton
<b>British Columbia:</b>		
Armour Salvage (1949) Ltd. ....	Prince Rupert .....	Cassier
Border Sand & Gravel (w) .....	White Rock .....	New Westminster Tp.
Britannia Mining & Smelting Co. Ltd. ....	Britannia Beach .....	Britannia Beach
B.C. Electric Railway Co. Ltd. ....	425 Carrall St., Vancouver .....	Various
British Columbia Department of Highways .....	Victoria .....	Various
Chilliwack, City of .....	Chilliwack .....	Chilliwack
Consolidated Mining & Smelting Company of Canada Limited (w) .....	Trail .....	Chapman and Kimberley
Courtenay Sand & Gravel Co. Ltd. (w) .....	520 Duncan Ave., Courtenay .....	Courtenay
Cranbrook, City of (w) .....	Cranbrook .....	Cranbrook
Deeks Sand & Gravel Co. Ltd. (w) .....	1051 Main St., Vancouver .....	Port Coquitlam
Delta, Corporation of .....	Ladner .....	New Westminster
Dolan's Limited (w) .....	Alberni .....	Alberni
Fernie, City of .....	Fernie .....	Fernie
Gilley Bros. Limited (w) .....	902 Columbia St., New Westminster .....	New Westminster
Gosling, D.F., Gravel Sales (w) .....	Abbotsford .....	Abbotsford
Highland Sand & Gravel Company Ltd. (w) .....	Lynn timer .....	Lynn timer
Hillside Sand & Gravel (w) .....	1075 Main St., Vancouver .....	Hillside
Kamloops, City of (w) .....	288 - First Ave., Kamloops .....	Kamloops
Kimberley, City of .....	Kimberley .....	Kimberley
Langley, Corporation of (w) .....	Murrayville .....	Murrayville
McHattie, J.T. ....	Royal Oak, Saanich .....	Saanich
McIntosh, A. ....	Haney .....	Albion
McIntyre & Harding Gravel Co. Ltd. (w) .....	Royal Oak, Saanich .....	Saanich
Nelson, City of (w) .....	501 Front St., Nelson .....	Nelson
Pioneer Cement Works (w) .....	Vernon .....	Vernon
Pitkethly Brothers Limited (w) .....	8699 Angus Drive, Vancouver .....	Vancouver
Port Alberni, City of (w) .....	Port Alberni .....	Port Alberni
Producers Sand & Gravel Co. (1929) Limited .....	900 Wharf St., Victoria .....	Royal Bay
Revelstoke, City of .....	Revelstoke .....	Revelstoke
Saanich, Corporation of .....	Royal Oak, Saanich .....	Saanich
Surrey, Corporation of .....	Cloverdale .....	Cloverdale
Taylor, E.R., Construction Co. Ltd. ....	8699 Hudson St., Vancouver .....	New Westminster
Trail, City of .....	Trail .....	Trail
Tremblay, L. ....	Dawson Creek .....	Dawson Creek
Vancouver & Districts .....	1303 Sun Bldg., Vancouver .....	Coquitlam
West Kootenay Power & Light Co. Ltd. ....	Trail .....	Trail