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**CANADA**  
**DEPARTMENT OF TRADE AND COMMERCE**  
**DOMINION BUREAU OF STATISTICS**  
**CENSUS OF INDUSTRY**  
**MINING, METALLURGICAL & CHEMICAL BRANCH**

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**THE SAND AND GRAVEL INDUSTRY**  
**IN**  
**CANADA**  
**1944**



**OTTAWA**  
**1946**

**Price 25 cents**



Dominion Statistician:  
 Chief - Mining, Metallurgical and Chemical Branch:  
 Mining Statistician:

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### THE SAND AND GRAVEL INDUSTRY, 1944

Commercial production of sand and gravel in Canada during 1944 totalled 23,399,386 short tons valued at \$10,390,119 compared with 25,744,469 short tons worth \$9,005,857 in 1943. Included in the totals for both years are sands and gravels from various sources, including recoveries by dredges and material used by railroads as ballast and by mines as backfill.

Quebec and Ontario are Canada's largest sand and gravel-producing provinces, the tonnage produced in these provinces in 1944 being, respectively, 8,541,400 and 9,529,803; in 1944 the quantity of material washed or screened at Canadian sand and gravel plants totalled 3,442,147 short tons as against 2,842,803 tons in 1943, and the quantity of bank or pit-run grades amounted to 24,957,839 short tons compared with 22,901,666 tons in the preceding year.

Of the total sand and gravel (mixed) output in 1944, there were 16,648,511 tons used for concrete, roads, etc., and 4,428,721 short tons as railroad ballast. In addition, there were produced 1,605,514 short tons of straight-run sand for building, concrete, etc.; 31,947 tons for moulding; 7,275 tons as core sand and 43,238 tons for other purposes. The quantity of crushed gravel produced during the year under review amounted to 2,627,358 short tons. Other sand used as mine fill in 1944 totalled 3,007,422 tons.

Firms (including individuals) reported as active in the Canadian sand and gravel industry numbered 1,541 in 1944; of these, 871 were located in Quebec, 605 in Ontario, 26 in British Columbia and lesser numbers in Nova Scotia, New Brunswick, Manitoba, Saskatchewan and Alberta. Employees were reported at 1,773; salaries and wages paid totalled \$2,494,657; fuel, electricity and process supplies used aggregated \$391,738 and the total net value of production was estimated at \$9,888,381.

Canadian exports of sand and gravel totalled 291,942 short tons valued at \$182,584 in 1944 compared with 382,319 tons worth \$212,503 in 1943. Imports of sand and gravel in 1944 totalled 83,502 short tons valued at \$57,775 as against 83,482 tons worth \$53,377 in 1943.

Imports into Canada of silica sand for manufacturing totalled 457,603 short tons valued at \$914,390 in 1944 compared with 509,043 tons worth \$1,011,117 in 1943.

The annual report on sand and gravel for 1944 as prepared by the Bureau of Mines, Ottawa, contains the following information: -

"Deposits of gravel and sand are numerous throughout Eastern Canada; with the exception of Prince Edward Island, where gravels are scarce. Owing to the widespread occurrence of gravels and sands and to their bulk in relation to value, local needs for these materials are usually supplied from the nearest deposits, as their cost to the consumer is governed largely by the length of haul; hence the large number of small pits and the small number of large plants. Some grades of sand particularly suitable for certain industries command a much higher price than does ordinary sand.

"By far the greater part of the output of gravel and sand is used in road improvement, concrete works, and railway ballast. Gravel in particular has proved a good material in the building of all-weather roads at low cost and its use has steadily increased with the growth of motor traffic. A considerable tonnage of sand and gravel is used in the mines for refilling underground workings. Some mines use several thousand tons a day.

"Most of the gravel used for road work comes from pits worked for that purpose. Usually a portable or semi-portable plant is used to extract enough gravel to supply the immediate need, and then a sufficient reserve is built up, in the form of stockpiles, for two years' requirements. Gravel in road pits may remain unused for two years or more, and the amount of gravel produced from year to year thus fluctuates, depending upon the program of road construction and improvement. Gravel in railway pits may remain unused for several years. Part of the gravel used is crushed, screened, and in some cases even washed, and the proportion thus processed is increasing steadily. Some provincial highway departments have used crushed instead of pit-run gravel on their main highways for a number of years. Most of the large commercial plants are equipped for producing crushed gravel, a product that can compete with crushed stone.

"The amount of sand consumed follows the trend of building activity, as most of it is used in the building industry for concrete work, cement and lime mortar, or wall plaster. The sand must be free from dust, loam, organic matter, or clay and must contain only a little silt. It is usually obtainable from local deposits.

"Much sand is used also for moulding in foundries, filtering of water supply, and in making glass, all of which require special grades of sand.

"Prices of sand, gravel, and crushed stone in the four largest cities in Canada were as follows, at the end of 1943 and 1944. Prices, per ton or cubic yard, as indicated below, are for carlots, f.o.b. cars:

	Montreal		Toronto		Winnipeg		Vancouver	
	per ton		per ton		per cu. yd.		per cu. yd.	
	1943	1944	1943	1944	1943	1944	1943	1944
Sand .....	\$1.15	\$1.20	\$1.01	\$1.04	\$1.00	\$1.00	\$1.00	\$1.00
Gravel .....	1.10	1.10	1.55	1.55	1.00	1.00	1.00	1.00
Crushed stone .....	0.98	0.97	1.67	1.72	....	....	1.10	1.10

Table 1 - PRODUCTION IN CANADA OF SAND AND GRAVEL, 1943 and 1944

	Washed or screened	Bank or pit run	TOTAL VALUE
<u>1 9 4 3</u>			
Production (x) -			
Sand:			
Moulding sand .....	28,013	14,643	76,199
Building sand and sand for concrete, roadwork, etc.	1,153,953	816,363	775,392
Core sand .....	1,335	...	2,032
Mine filling .....	118,838	1,367,747	270,863
Other sand (including blast sands, engine sands, etc.)	4,959	70,929	15,577
Sand and Gravel:			
Sand and gravel for railway ballast .....	81,697	3,755,414	712,140
Sand and gravel for concrete, road-building, etc. .	1,247,057	14,813,629	6,155,625
Crushed gravel .....	206,951	2,062,941	998,029
TOTAL .....	2,842,803	22,901,666	9,005,857
Cost of fuel, electricity and process supplies used	...	...	379,435
TOTAL NET VALUE .....	...	...	8,626,422

1 9 4 4

## Production (x) -

Sand:			
Moulding sand .....	19,935	12,012	65,168
Building sand and sand for concrete, roadwork, etc.	1,289,094	316,420	743,191
Core sand .....	7,275	...	4,408
Mine filling .....	247	3,007,175	397,578
Other sand (including blast sands, engine sands, etc.)	7,781	35,457	14,353
Sand and Gravel:			
Sand and gravel for railway ballast .....	339,982	4,088,739	900,610
Sand and gravel for concrete, road-building, etc. .	1,430,953	15,217,558	6,898,582
Crushed gravel .....	346,880	2,280,478	1,256,229
TOTAL .....	3,442,147	24,357,839	10,280,119
Cost of fuel, electricity and process supplies used	...	...	...
TOTAL NET VALUE .....	...	...	...

(x) Does not include production of natural silica sand or of silica sand manufactured from quartz or silica rock; production of these are recorded under quartz in the bulletin "The Feldspar and Quartz Mining Industry".



Table 2 - PRODUCTION(x) OF SAND AND GRAVEL IN CANADA, 1935-1944

Year	Tons	\$	Year	Tons	\$
1935 .....	21,213,489	6,389,440	1940 .....	31,375,415	11,759,245
1936 .....	22,124,160	6,921,399	1941 .....	31,604,806	10,375,723
1937 .....	27,001,301	10,492,696	1942 .....	26,349,907	9,005,414
1938 .....	32,223,882	12,002,554	1943 .....	25,744,469	9,005,857
1939 .....	31,294,341	11,241,102	1944 .....	28,399,986	10,280,119

(x) Does not include production of natural silica sand or of silica sand manufactured from quartz or silica rock; production of these are recorded under quartz. Also, does not include sand used for back filling at mines prior to 1936.

Table 3 - PRODUCTION OF SAND AND GRAVEL, BY PROVINCES, 1940-1944

Province	1940	1941	1942	1943	1944
Prince Edward Island ....	Tons (x) \$ (x)	(x) (x)	(x) (x)	(x) (x)	(x) (x)
Nova Scotia .....	Tons 1,440,140 \$ 867,490	749,441 332,531	775,795 371,970	917,376 585,007	911,970 411,041
New Brunswick .....	Tons 944,033 \$ 278,710	962,483 423,772	923,020 540,541	719,531 372,936	1,960,382 958,524
Quebec .....	Tons 12,177,624 \$ 3,127,931	11,681,390 2,673,300	11,026,249 2,485,853	10,601,376 2,362,635	8,541,400 2,140,856
Ontario .....	Tons 9,678,745 \$ 4,025,026	11,569,382 4,524,463	8,420,358 3,433,986	8,285,309 3,620,852	9,529,803 4,417,427
Manitoba .....	Tons 1,851,645 \$ 839,993	1,503,901 429,996	1,443,001 427,150	1,048,673 293,938	1,102,448 296,086
Saskatchewan .....	Tons 1,472,885 \$ 741,353	1,220,801 406,835	679,979 435,798	1,288,263 583,687	1,163,097 533,175
Alberta .....	Tons 1,722,465 \$ 1,069,677	956,484 433,504	481,644 218,914	626,157 309,389	833,524 328,151
British Columbia .....	Tons 2,087,878 \$ 809,075	2,960,924 1,151,322	2,599,861 1,091,202	2,257,784 877,413	4,357,362 1,194,859

(x) No commercial production reported.

Table 4 - PRODUCTION OF WASHED AND SCREENED AND PIT RUN GRADES, 1944

Province	Washed or screened tons	Bank or pit run tons	TOTAL VALUE \$
Nova Scotia .....	117,617	794,353	411,041
New Brunswick .....	70,478	1,889,904	958,524
Quebec .....	517,779	8,023,621	2,140,856
Ontario .....	1,694,854	7,834,949	4,417,427
Manitoba .....	294,938	807,510	296,086
Saskatchewan .....	...	1,163,097	533,175
Alberta .....	59,048	774,476	328,151
British Columbia .....	687,433	3,669,929	1,194,859
TOTAL .....	3,442,147	24,957,839	10,280,119

Table 5 - PRODUCTION OF SAND FOR BUILDING AND CONCRETE, ROADS, ETC., AND SAND AND GRAVEL FOR RAILWAY BALLAST AND FOR CONCRETE, ROADS, ETC., 1935-1944

Year	Sand		Sand and Gravel			
	For building, concrete, roads, etc.(x)		For railway ballast		For concrete, roads, etc.	
	Tons	\$	Tons	\$	Tons	\$
1935 .....	787,412	264,435	2,267,195	415,092	17,531,047	5,357,331
1936 .....	956,502	362,542	6,318,681	1,054,703	14,336,640	5,216,942
1937 .....	1,356,269	476,824	2,764,639	533,876	19,453,188	8,340,764
1938 .....	1,750,187	685,976	2,359,703	443,936	22,513,256	9,101,882
1939 .....	1,169,899	364,829	3,223,718	603,288	22,899,751	8,988,114
1940 .....	1,961,604	537,937	3,834,904	699,518	21,465,961	9,100,612
1941 .....	2,192,405	729,901	4,836,908	916,979	19,769,798	7,135,258
1942 .....	2,535,366	934,777	4,610,323	957,781	16,139,859	6,010,412
1943 .....	1,970,316	775,392	3,837,111	712,140	16,060,686	6,155,625
1944 -						
Nova Scotia .....	...	...	137,859	22,259	678,902	309,671
New Brunswick .....	202	30	267,095	77,158	1,320,948	662,022
Quebec .....	710,067	268,043	1,010,779	198,084	5,142,041	1,055,912
Ontario .....	725,403	403,156	1,553,024	344,685	5,997,090	3,145,153
Manitoba .....	30,103	13,116	340,879	56,164	723,678	225,069
Saskatchewan .....	1,019	202	453,759	77,535	697,631	448,304
Alberta .....	7,078	7,965	381,658	62,461	409,464	225,793
British Columbia ...	131,642	50,679	283,668	62,264	1,678,757	826,658
CANADA, 1944 .....	1,605,514	743,191	4,428,721	900,610	16,648,511	6,898,582

(x) Exclusive of engine and other sands and mine fill.

Table 6 - PRODUCTION OF MOULDING AND CORE SAND AND CRUSHED GRAVEL, 1944

Province	Moulding Sand		Core Sand		Crushed Gravel	
	Tons	\$	Tons	\$	Tons	\$
Nova Scotia .....	1,063	3,960	...	...	94,146	75,151
New Brunswick .....	...	...	...	...	372,137	219,314
Quebec .....	...	...	5,800	2,030	1,670,269	615,938
Ontario .....	30,516	60,912	1,475	2,378	374,804	250,046
Manitoba .....	351	260	...	...	5,750	852
Saskatchewan .....	17	36	...	...	6,635	4,790
Alberta .....	...	...	...	...	19,559	28,976
British Columbia .....	...	...	...	...	84,058	61,162
CANADA, 1944 .....	31,947	65,168	7,275	4,408	2,627,358	1,256,229
CANADA, 1943 .....	42,656	76,199	1,335	2,032	2,269,892	998,029

Table 7 - PRINCIPAL STATISTICS OF THE SAND AND GRAVEL INDUSTRY IN CANADA(x) 1942-1944

	1942	1943	1944
Number of firms .....	1,419	1,387	1,541
Capital employed .....	\$ 4,477,547	3,674,501	(/)
Number of employees - On salary .....	113	89	106
On wages .....	2,028	2,231	1,667
Total .....	2,141	2,320	1,773
Salaries and wages - Salaries .....	\$ 224,868	182,034	213,270
Wages .....	\$ 2,179,887	2,501,223	2,281,387
Total .....	\$ 2,404,755	2,683,257	2,494,657
Selling value of sand and gravel produced by railway companies (Gross) .....	\$ 844,829	823,067	1,035,932
Selling value of sand and gravel produced by other operators (Gross) .....	\$ 8,160,585	8,182,790	9,244,187
Total Selling Value of Sand and Gravel Produced (Gross) .....	\$ 9,005,414	9,005,857	10,280,119
Cost of fuel and electricity .....	\$ 509,190	322,202	333,259
Cost of process supplies used .....	\$ 167,959	57,233	58,479
TOTAL NET VALUE OF PRODUCTION .....	\$ 8,328,265	8,626,422	9,888,381

(x) Includes data relating to sand production by dredgers and railways.

(/) Not reported in 1944.

Table 8 - CAPITAL EMPLOYED, NUMBER OF EMPLOYEES, SALARIES AND WAGES PAID, AND FUEL AND ELECTRICITY CONSUMED, BY PROVINCES, 1943 and 1944

Province	Number of operators	Capital employed (x)	Number of employees	Salaries and wages	Cost of fuel and electricity used	Cost of process supplies used	Net value of production
		\$		\$	\$	\$	\$
<b>1943</b>							
Nova Scotia .....	5	(x)	614	552,647	(x)	(x)	585,007
New Brunswick .....	4	5,000	138	119,670	(x)	(x)	372,936
Quebec .....	812	250,077	781	810,722	34,158	11,889	2,316,588
Ontario .....	517	1,260,097	336	469,591	221,425	14,638	3,384,789
Manitoba .....	10	543,568	187	291,308	10,733	15,099	268,106
Saskatchewan .....	10	113,692	36	68,238	811	12,212	570,664
Alberta .....	6	58,071	84	143,576	11,388	1,572	296,429
British Columbia ..	23	1,443,996	144	227,505	43,687	1,823	831,903
<b>1944</b>							
Nova Scotia .....	7	(/)	153	139,187	1,494	250	409,297
New Brunswick .....	7	(/)	261	232,969	5,415	1,355	951,754
Quebec .....	871	(/)	628	794,047	31,890	7,475	2,101,491
Ontario .....	605	(/)	330	569,057	228,163	20,496	4,168,768
Manitoba .....	12	(/)	164	313,334	10,305	13,659	272,122
Saskatchewan .....	7	(/)	17	52,643	675	10,052	522,448
Alberta .....	6	(/)	67	137,815	10,912	2,004	315,235
British Columbia ..	26	(/)	153	255,605	44,405	3,188	1,147,266

(x) Complete data not available.

(/) Not recorded in 1944.

Table 9 - FUEL AND ELECTRICITY USED, 1943 and 1944

Kind	Unit of measure	1943 Quantity	1943 Value	1944 Quantity	1944 Value
			\$		\$
Bituminous coal - Canadian .....	short ton	5,063	42,785	4,188	34,039
Foreign .....	short ton	9,348	67,849	14,362	104,334
Anthracite coal .....	short ton	...	...	251	2,566
Coke .....	short ton	...	...	...	...
Gasoline .....	Imp. gal.	332,133	98,011	404,714	119,535
Kerosene .....	Imp. gal.	1,045	231	1,872	329
Fuel oil .....	Imp. gal.	97,224	13,326	120,765	11,762
Wood .....	cord	10	35	...	...
Natural gas .....	M cu. ft.	...	...	62	37
Electricity purchased .....	K.W.H.	10,859,629	99,965	5,164,909	60,657
TOTAL .....	...	...	322,202	...	333,259

Table 10 - AVERAGE NUMBER OF WAGE-EARNERS, BY MONTHS, 1939-1943

Month	1939	1940	1941	1942	1943(a)	1944(b)
January .....	203	274	450	369	333	377
February .....	245	268	440	434	358	370
March .....	340	346	517	524	367	379
April .....	821	629	815	782	665	556
May .....	11,054	3,275	4,400	3,796	3,310	2,492
June .....	13,444	8,182	8,493	5,352	5,155	5,536
July .....	13,591	11,504	8,023	4,787	5,753	3,953
August .....	12,451	11,526	7,225	3,183	4,247	2,412
September .....	10,253	8,644	3,421	1,835	2,870	1,468
October .....	5,199	3,372	2,570	1,142	2,095	711
November .....	1,032	886	764	954	714	636
December .....	382	628	412	528	480	499

(a) Average for year 2,227 males and 4 females.

(b) Average for year 1,662 males and 5 females.



Table 11 - NUMBER OF WAGE-EARNERS WHO WORKED THE NUMBER OF HOURS SPECIFIED, DURING ONE WEEK IN MONTH OF HIGHEST EMPLOYMENT, 1944

Hours	Number	Hours	Number
30 hours or less .....	30	51-54 hours .....	53
31-43 hours .....	61	55 hours .....	30
44 hours .....	55	56-64 hours .....	247
45-47 hours .....	35	65 hours and over .....	187
48 hours .....	4,237	GRAND TOTAL .....	4,966 (a)
49-50 hours .....	31	Total wages paid in that week . \$	101,895 (b)

(a) includes 2 females.

(b) includes \$37 paid to females.

Table 12 - POWER EQUIPMENT INSTALLATION, 1944

	Number of units (x)	Horse power
Steam engines .....	12	747
Steam turbines .....	...	...
Diesel engines .....	14	1,303
Gasoline, gas and oil engines .....	76	3,212
Hydraulic turbines or water wheels .....	7	240
Electric motors operated by purchased power .....	205	7,109
Electric motors operated by establishments' power .....	2	45
Motor generator sets .....	5	1,612
Stationary boilers .....	10	668

(x) Includes reserve equipment.

NOTE: 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 1944 the combined amount paid by railroads to contractors and wages paid railroad employees for the production of sand and gravel totalled \$269,458.

#### MOULDING SAND (NATURAL BONDED) IN 1944 (Bureau of Mines, Ottawa)

Moulding sands are mixtures of sand and clay which, when moist, can be formed into moulds from which metal castings can be made. When suitable mixtures occur they are called natural bonded moulding sands. (Mechanically prepared moulding sand is made by the addition of bonding clay to silica).

In Canada, natural bonded moulding sands usually occur in shallow beds, sometimes of fairly uniform thickness over a considerable area, but in most cases of irregular thickness. These beds are always near the surface. The best natural bonded moulding sands are composed of fairly pure silica sand and plastic refractory clay. The clay bonding content varies approximately from 3 per cent to 30 per cent.

Every province except Prince Edward Island produces natural bonded moulding sand. At one time that province produced small quantities for local use. By far the greater part of the output, generally over 90 per cent, comes from the Niagara Peninsula in Ontario. Occasionally, new deposits have been opened up, mostly in Ontario and in the Prairie Provinces.

The results of a general investigation of moulding sands in Canada were published in 1936 by the Bureau of Mines, Ottawa, in Report No. 767 (No. 768, French edition), "Natural Bonded Moulding Sands of Canada". This report directs attention to the large number of deposits from which supplies have been obtained for local foundries and the possibility of replacing imported material with Canadian sands.

The Canadian production in 1944 was 31,947 tons valued at \$65,168, compared with 42,656 tons valued at \$76,199 in 1943. Small quantities of moulding sands not tabulated in official records are produced in nearly all the provinces by foundrymen for their own use from nearby deposits, or by part-time operators such as farmers, for local foundries. Silica sands without clay bond, used mainly in steel foundries, are not included in the above production figures.



MOULDING SAND (NATURAL BONDED) IN 1944 (Continued)  
(Bureau of Mines, Ottawa)

Imports are not recorded separately, but are mostly from the United States. They greatly exceed production. Moulding sands, core sands, and other sands and gravels enter Canada duty free.

Consumption of moulding sand, core sand, silica, and other foundry sands for nine basic Canadian industries in 1943 approximated 250,000 tons.

PRINCIPAL SAND AND GRAVEL OPERATORS, 1944

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
<u>NOVA SCOTIA -</u>		
Crocket, V. B.	Wallace	Colchester Co.
Nova Scotia Department of Highways	Halifax	Various
Warren Bituminous Paving Co. Ltd.(w)	1454 Bloor St. W., Toronto, Ont.	Yarmouth
<u>NEW BRUNSWICK -</u>		
Likely, Jos. A. Ltd. (w)	Saint John	East Saint John
New Brunswick Department of Highways	Fredericton	Various
Warren Bituminous Paving Co. Ltd.(w)	1454 Bloor St. W., Toronto, Ont.	Sussex
<u>QUEBEC -</u>		
Beaudry, Antoine	1706 Plessis, Montreal	St. Henri
Bigras, Omer	Ste. Rose Ouest	Ste. Rose Ouest
Bonner Sand & Ballast Ltd. (w)	1434 St. Catherine St. W., Montreal	South Durham
Breen, Thos.	Kearns	Guigues
Brouillet Sand & Gravel Co.	Rawdon	Ste. Julienne
Canadian Johns Manville Co. Ltd.	Sun Life Bldg., Montreal	Asbestos
Coaticook, City of	Coaticook	Coaticook
Compagnie de Sable Ltee (w)	10 - 3eme Ave., Quebec	St. Charles River
Consolidated Oka Sand & Gravel Co. Ltd. (w)	248 McCord St., Montreal	Lake of Two Mountains
Gagnon, Arthur	Grand'mere	Garneau Jct.
Goyer, Edouard & Frere	Saint Bruno	St. Bruno
Granby, City of	Granby	Granby
Laberge, Evariste	Ste. Foy	Ste. Foy
La Corporation de la Ville de Magog	Magog	Magog
Latulippe, Philippe (w)	240 rue de la Ronde, Quebec	St. Charles River
Marchand, Euclide	505-8 <sup>e</sup> rue Almaville-en-haut	Mont Carmel
Mercure, Camille	555-16eme Ave., St. Hyacinthe	St. Dominique
Potier & Freres	8645 rue Casgrain, Montreal	Two Mountains
Quebec, City of	Quebec	Ste. Therese de Beauport
Rimouski, City of	Rimouski	Rimouski
Riverin, Jean-Joseph Ltee	115 Jacques Cartier, Chicoutimi	Various
Robert & Dufour Enrg.	Ste. Anne de Beaupre	Beauport West
St. Francis River Dredging Co.(w)	St. Francois du Lac	St. Francis River
Sherbrooke, City of	Sherbrooke	Orford Tp.
Standard Lime Co. Ltd. (w)	Joliette	Ste. Emelie
Standard Sand & Gravel Ltd. (w)	St. Felix de Valois	St. Felix de Valois
Tremblay, Jos. Ltee	376 rue Georges, Shawinigan Falls	St. Mathieu
Venne, Oscar	Lachenaie	Lachenaie

PRINCIPAL SAND AND GRAVEL OPERATORS, 1944 (Continued)

Name of Firm	Head Office Address	Location
<u>ONTARIO -</u>		
Allan, James	R. R. 3 Seaforth	Seaforth
Axford, J. B.	35 Elm St., St. Thomas	South Yarmouth
Barnes, Wm. R. Co. Ltd. (w)	243 Cumberland Ave., Hamilton	Waterdown
Beckett, Morden (w)	Winona	Winona
Benson & Patterson	Stamford	Stamford
Boyd Bros.	Osgoode	Osgoode
Braas Bros.(Hillcrest Sand Co.)	Niagara Falls	Stamford
Brantford, City of	Brantford	Brantford
Burrows, J.	North Bay	Widdifield Tp.
Cameron & Phin (w)	Welland	Port Maitland
Coleman, Gordon T.	235 Sidney St., Cornwall	Bonville
Conlin, Herbert L. Estate (w)	66 King St. W., Toronto	Scarboro Tp.
Consolidated Sand & Gravel Ltd.	402 Harbour Commission Bldg., Toronto	Fuller, Paris and Waterford
Cooper, A. & Co.	212 N. May St., Fort William	Thunder Bay
Cudmore, Harold T.	Hensall	Hensall
Curran & Briggs Ltd. (w)	61 Haverson Blvd., Toronto	Wilberforce, Brooke and Bancroft
Dibblee Construction Co. Ltd.(w)	248 Albert St., Ottawa	Bowesville Road
Ellins Bros.	304 Searlett Rd., Toronto 9	Etobicoke Tp.
Fewster, Stanley	R.R. 4, St. Marys	Oxford Co.
Forwell Sand & Gravel Ltd.	31 Whitney Place, Kitchener	Waterloo
Foster, R. R.	86 Spadina Ave., Ottawa	Britannia Heights
Gauthier, J.	Porcupine	Whitney Tp.
Goodreau, Charles Estate (w)	Northwood	Harwich Tp.
Grandmaitre, Donat	71 Montreal Rd., Eastview	Rockcliffe Village
Hall, Thomas G.	Plattsville	Blenheim Tp.
Hollinger Cons. Gold Mines Ltd.	Timmins	Tisdale Tp.
Howard Sand & Gravel Co. Ltd. (w)	Aldershot	Flamboro Tp.
Jupp, A. E. Construction Co. Ltd.	56 Blake St., Toronto	Pickering Tp.
Kingston Sand & Gravel Ltd.	235 Wellington St., Kingston	Kingston Tp.
McAuley, P. L.	Trenton	Trenton
McLean, A. B. & Sons (w)	Sault Ste. Marie	Sault Ste. Marie
National Sand & Material Co. Ltd.(w)	402 Harbour Bldg., Toronto	River
Nicholson Transit Co. Ltd. (w)	9690 W. Jefferson Ave., Detroit, Mich., U. S. A.	Eastern Cap
Quigley's Foundry Sands (w)	Bartonville	Waterdown
Rayner Construction Ltd. (w)	29 Commercial St., Leaside	Fergus & Geraldton
Scott, Thos.	R.R. 1, Seaforth	McKillop Tp.
Smythe, C. Ltd. (w)	Box 8, Postal Station D, Toronto 9	Mt. Dennis
Spratt, G. H. (w)	Billings Bridge	Billings Bridge
Tees Transit Co. (w)	58 Whitton Rd., Hamilton	Niagara Bar
Towland Construction Co. Ltd. (w)	294 Dundas St., London	Bentinck Tp.
United Towing & Salvage Co. Ltd.(w)	635 Common St., Montreal, P.Q.	Lake Superior
White, Bertha M. (w)	209 N. Vidal St., Sarnia	Sarnia Tp.
Woollatt Fuel & Supply Co. Ltd.(w)	2171 Ottawa St., Walkerville	Leamington
<u>MANITOBA -</u>		
Alsip Brick, Tile & Lumber Co. Ltd.	537 Portage Ave., Winnipeg	Beausejour
Brandon, City of	City Hall, Brandon	Brandon
Building Products & Coal Co. Ltd.(w)	111 Christie St., Winnipeg	Bird's Hill
Greater Winnipeg Water District	185 King St., Winnipeg	Mile 31 and Mile 80 G.W.W.D. Ry.
Manitoba Department of Highways	Winnipeg	Various
McCurdy Supply Co. Ltd. (w)	1034 Arlington St., Winnipeg	...
Winnipeg, City of	223 James Ave., Winnipeg	Bird's Hill

PRINCIPAL SAND AND GRAVEL OPERATORS, 1944 (Continued)

Name of Firm	Head Office Address	Location
<u>SASKATCHEWAN -</u>		
Betteridge, Stanley	Pilot Butte	Pilot Butte
Hudson Bay Mining & Smelting Co.Ltd.	500 Royal Bank Bldg., Winnipeg, Man.	Flin Flon
Prince Albert, City of	Prince Albert	Prince Albert
Saskatchewan Department of Highways	Regina	Various
<u>ALBERTA -</u>		
Alberta Department of Highways	Edmonton	Various
Cristall Sand	10165 - 104th St., Edmonton	Perryvale
Jefferies & Sons Ltd. (w)	Calgary	Calgary
<u>BRITISH COLUMBIA -</u>		
British Columbia Department of Highways	Victoria	Various
Chilliwack, City of	Chilliwack	Chilliwack Tp.
Consolidated Mining & Smelting Co. of Canada Ltd.	Trail	Fort Steele and Tadanac
Deeks Sand & Gravel Co. Ltd. (w)	101 West 1st Ave., Vancouver	Coquitland, North Vancouver and Seymour Creek
Gilley Bros. Ltd. (w)	902 Columbia St., New Westminster	Port Coquitlam
Gravel Contractors Ltd.	Dawson Creek	Pouce Coupe River
Highland Sand & Gravel Co. Ltd.(w)	Lynn timer	Lynn timer
Hillside Sand & Gravel Co.Ltd.(w)	1075 Main St., Vancouver	Hillside
McIntyre & Harding Gravel Co.Ltd.(w)	Royal Oak P.O., Saanich	Victoria
Nelson, City of (w)	501 Front St., Nelson	Nelson
Pitkethly Bros. (w)	8699 Angus Drive, Vancouver	Vancouver
Port Alberni, City of	Port Alberni	Alberni District
Producers Sand & Gravel Co. (1929) Ltd. (w)	1902 Store St., Victoria	Royal Bay
Road Materials Ltd. (w)	8699 Hudson St., Vancouver	North Vancouver
Saanich, District of	Royal Oak P.O., Vancouver Island	Saanich Municipality



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