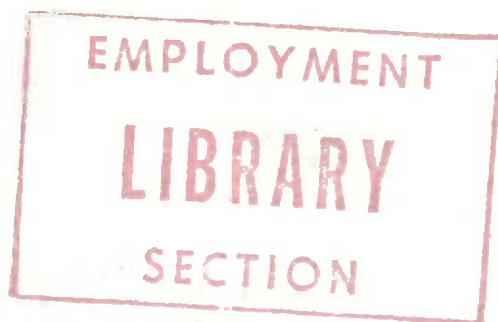


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# SAND AND GRAVEL PITS

## 1966



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## SAND AND GRAVEL PITS

1966

This report includes statistics for industry 087 - Sand Pits or Quarries of Standard Industrial Classification Manual (Catalogue No. 12-501).

Data presented in this report under the heading of Sand and Gravel Pits (Table 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, trade data, etc. are presented along the same general lines as in the earlier issues of this report.

The combination of improvements in internal procedures with the introduction of the final stage of the establishment concept in the annual Census of Mining produced changes which, for some industries, required major adjustments in industry statistical data - see Explanatory Notes, 1964 issue of this report.

Commodity statistics are shown in Tables 9-12 and 14 which includes sand and gravel shipped by various operators which are not classified to the sand and gravel industry. Commercial operators shipped 217,238,710 short tons valued at \$151,525,102 in 1966 compared with 205,260,264 tons valued at \$133,819,824 in the preceding year. These totals include sand and gravel used by railroads as ballast, gravel used by mines as back fill and sand recovered by dredges, as well as similar materials from other sources.

Washed or screened grades amounted to 54,076,998 tons compared with 73,582,335 tons in 1964 and the bank or pit-run grades amounted to 151,183,266 tons compared with 120,209,023 tons in 1964.

Imports of sand and gravel in 1965 were 570,977 tons valued at \$682,701 and the exports were 687,941 tons valued at \$875,493.

### 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 for Sand and Gravel Pits,<sup>1</sup> 1962-66

Year and province	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	
<b>1962</b>													
<b>Totals</b> .....	268	1,836	4,309	7,604	2,705	5,638	34,504	26,161	108	445	2,293	10,069	26,216
<b>1963</b>													
<b>Totals</b> .....	238	1,761	4,110	7,568	2,739	6,310	35,228	26,159	89	360	2,209	10,038	26,209
<b>1964</b>													
<b>Totals</b> .....	227	1,845	4,369	8,166	2,889	7,778	40,843	30,175	85	365	2,326	10,902	30,770
<b>1965</b>													
Newfoundland .....	2	x	x	x	x	x	x	x	x	x	x	x	x
Prince Edward Island ...	2	x	x	x	x	x	x	x	x	x	x	x	x
Nova Scotia .....	12	84	212	336	150	220	1,435	1,065	4	10	109	444	1,065
New Brunswick .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	54	241	571	895	343	675	4,291	3,273	15	69	299	1,153	3,277
Ontario .....	115	1,199	2,932	5,812	2,153	5,047	28,955	21,755	47	231	1,514	8,005	22,117
Manitoba .....	14	116	280	519	309	650	3,253	2,294	2	9	153	781	2,313
Saskatchewan .....	10	71	173	266	85	176	1,083	821	5	22	83	320	841
Alberta .....	16	267	569	1,349	393	1,633	6,466	4,440	3	11	331	1,716	4,654
British Columbia .....	17	163	341	1,022	230	545	5,353	4,577	x	x	704	1,286	4,687
<b>Totals</b> .....	243	2,182	5,183	10,357	3,706	8,980	51,388	38,702	79	365	2,737	13,865	39,431
<b>1966</b>													
Newfoundland .....	2	x	x	x	x	x	x	x	x	x	x	x	x
Prince Edward Island ...	1	x	x	x	x	x	x	x	x	x	x	x	x
Nova Scotia .....	9	76	189	298	135	317	1,536	1,085	3	11	100	412	1,088
New Brunswick .....	1	x	x	x	x	x	x	x	x	x	x	x	x
Quebec .....	48	205	464	816	366	1,006	4,001	2,629	17	82	269	1,116	2,638
Ontario .....	116	1,216	2,948	6,104	2,062	5,175	30,102	22,865	47	238	1,531	8,484	23,274
Manitoba .....	14	139	329	645	385	1,124	4,530	3,021	x	x	180	925	3,025
Saskatchewan .....	8	68	146	329	106	128	1,361	1,127	4	19	80	389	1,186
Alberta .....	13	168	353	966	290	881	4,183	3,011	3	14	226	1,278	3,062
British Columbia .....	17	139	283	915	235	1,125	5,972	4,611	x	x	181	1,159	4,607
<b>Totals</b> .....	229	2,053	4,814	10,227	3,615	9,810	52,115	38,690	79	373	2,611	13,923	39,219

<sup>1</sup> Refer to Explanatory Notes in the 1964 issue of this report for description of concepts and definitions.

TABLE 2. Employment and Payroll, for Sand and Gravel Pits, 1962-66

Year and province	Employees										Salaries and wages				
	Production and related workers		Other		Adminis- trative and office		Sales and distribution		Total		Production and related workers At pits or plants	Other	Adminis- trative and office	Sales and distribu- tion	Total
	At pits or plants				Male	Female	Male	Female	Male	Female					
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	At pits or plants				
	number										\$'000				
<b>1962</b>															
Totals .....	1,835	1	-	-	370	87	1	1	2,205	88	7,605	-	2,464	-	10,069
<b>1963</b>															
Totals .....	1,760	1	-	-	360	88	1	1	2,120	89	7,568	-	2,470	-	10,038
<b>1964</b>															
Totals .....	1,843	2	-	-	381	100	1	1	2,224	102	8,166	-	2,736	-	10,902
<b>1965</b>															
Newfoundland .....	x	-	-	-	x	-	1	1	x	-	x	-	x	-	x
Prince Edward Island....	x	-	-	-	x	-	1	1	x	-	x	-	x	-	x
Nova Scotia .....	84	-	-	-	20	5	1	1	104	5	336	-	108	-	444
New Brunswick .....	x	-	-	-	x	-	1	1	x	-	x	-	x	-	x
Quebec .....	240	1	-	-	47	11	1	1	287	12	895	-	258	-	1,160
Ontario .....	1,198	1	-	-	255	60	1	1	1,453	61	5,812	-	2,192	-	8,000
Manitoba .....	115	1	-	-	32	5	1	1	147	6	519	-	262	-	781
Saskatchewan .....	71	-	-	-	9	3	1	1	80	3	266	-	55	-	320
Alberta .....	267	-	-	-	55	9	1	1	322	9	1,349	-	367	-	1,716
British Columbia .....	163	-	-	-	37	4	1	1	200	4	1,022	-	264	-	1,286
Totals .....	2,179	3	-	-	458	97	1	1	2,637	100	10,351	-	3,514	-	13,865
<b>1966</b>															
Newfoundland .....	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Prince Edward Island....	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Nova Scotia .....	76	-	x	-	19	3	x	-	97	3	298	x	106	x	412
New Brunswick .....	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Quebec .....	205	-	-	-	48	10	5	1	258	11	816	-	282	18	1,116
Ontario .....	1,216	-	3	-	213	74	22	2	1,455	76	6,104	18	2,214	145	8,484
Manitoba .....	138	x	-	-	30	10	x	x	169	11	645	x	273	x	925
Saskatchewan .....	68	-	-	-	9	3	-	-	77	3	329	-	60	-	389
Alberta .....	168	-	-	-	40	9	9	-	217	9	966	-	255	57	1,278
British Columbia .....	139	-	-	-	34	2	6	-	179	2	915	-	214	29	1,159
Totals .....	2,052	1	5	-	395	111	44	3	2,496	115	10,227	24	3,411	261	13,923

<sup>1</sup> Included under administrative and office.

TABLE 3. Production and Related Workers, Sand and Gravel Pits, 1965 and 1966

Month	1965		1966	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January .....	1,308	—	1,243	—
February .....	1,425	—	1,304	1
March .....	1,509	1	1,455	1
April .....	1,863	2	1,734	1
May .....	2,099	3	1,935	1
June .....	2,265	3	2,084	1
July .....	2,285	3	2,122	1
August .....	2,286	3	2,114	1
September .....	2,173	3	2,049	1
October .....	2,121	3	2,006	1
November .....	1,976	3	1,846	1
December .....	1,708	2	1,446	—
Averages .....	1,917	3	1,778	1
Establishments reporting annual averages (small establishments only) .....	262	—	274	—
Average for all establishments .....	2,179	3	2,052	1

TABLE 4. Purchased Fuel and Electricity Used, Sand and Gravel Pits, 1965 and 1966

Description	1965		1966	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
Bituminous coal:				
(a) From Canadian mines .....	—	—	—	—
(b) Imported .....	—	—	—	—
Sub-bituminous coal (from Alberta mines only) .....	—	—	—	—
Anthracite coal .....	—	—	—	—
Lignite coal .....	—	—	—	—
Coke .....	ton 10	—	9	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal. 4,671,690	1,632	4,786,516	1,630
Fuel oil including kerosene or coal oil .....	" 5,302,489	944	4,895,466	860
Wood .....	cord —	—	20	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal. 22,776	5	30,228	6
(b) Other manufactured gas .....	M cu.ft. —	—	18,100	7
(c) Natural gas .....	" 49,756	9	92,233	21
Other fuel .....	—	—	—	—
Electricity purchased .....	kwh. 33,327,816	651	28,384,198	607
Steam purchased .....	...	—	—	—
Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	465	...	484
<b>Total fuel and electricity used .....</b>	...	<b>3,706</b>	...	<b>3,615</b>
Electricity generated:				
(a) For own use .....	—	...	—	...
(b) For sale .....	—	...	—	...



TABLE 5. Materials and Supplies, Sand and Gravel Pits, 1965 and 1966

Description	Cost	
	1965	1966
	\$'000	
Raw or other semi-processed materials purchased and used in pit operations .....	2,310	2,482
Containers, shipping materials and supplies used .....	9	14
Operating, maintenance and repair supplies used (excluding fuel) .....	5,949	6,448
Amount paid out to others for work done on materials owned by establishment .....	713	866
<b>Totals</b> .....	<b>8,980</b>	<b>9,810</b>

TABLE 6. Value of Production, Sand and Gravel Pits,<sup>1</sup> 1965 and 1966

Description	Value	
	1965	1966
	\$'000	
1. Value of production .....	49,861	51,069
2. Amount received in payment for work done on materials and products owned by others .....	1,527	1,046
<b>Total value of production and work done</b> .....	<b>51,388</b>	<b>52,115</b>

<sup>1</sup> See footnote 1, Table 7.

TABLE 7. Specified Taxes Paid by Companies Engaged in Sand Pits Operations,<sup>1</sup> 1966

Nature of taxes	Amount
	\$'000
Dominion income taxes, including taxes on non-operating revenue .....	499
Provincial taxes .....	637
Municipal taxes .....	296
<b>Total taxes paid</b> .....	<b>1,432</b>

<sup>1</sup> Includes related corporate activities associated with operations of pits and plants.

TABLE 8. Miscellaneous Expenditures Made by Companies Engaged in Sand Pits Operations,<sup>1</sup> 1966

	Amount
	\$'000
(a) Workmen's compensation .....	304
(b) Silicosis assessment .....	-
(c) Unemployment insurance .....	70
(d) Aggregate cost of structures, roads, machinery, equipment, etc., built by or purchased from outside contractors or suppliers and chargeable to Fixed Assets Account .....	3,013
(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 .....	8
(f) Other capital expenditures not reported in (d) and (e) .....	890
(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) .....	8
(h) Cost of office supplies used during the year, not chargeable to Fixed Assets Account. Excludes cost of stamps and meter expenses .....	165

<sup>1</sup> Includes related corporate activities associated with Canadian operations of sand pits and plants not allocable separately elsewhere.



TABLE 9. Producers' Shipments<sup>1,2</sup> of Sand and Gravel, 1957-66

Year	Tons	Value
		\$'000
1957	159,830	91,939
1958	160,211	96,282
1959	185,124	104,651
1960	192,074	111,164
1961	170,751	104,654
1962	181,246	118,603
1963	189,571	123,854
1964	193,791	125,232
1965	205,260	133,820
1966	217,239	151,525

<sup>1</sup> Does not include production of natural silica sand nor of silica sand manufactured from quartz or silica rock; production of these is recorded under quartz.

<sup>2</sup> The totals in above table include sand and gravel recovered by all producers regardless of statistical classification.

TABLE 10. Producers' Shipments of Sand and Gravel, by Uses, 1965 and 1966

	Washed or screened	Bank or pit-run	Total value
	'000 tons		\$'000
1965			
Production: <sup>1,2</sup>			
Sand and gravel:			
Fill	2,805	15,142	9,489
Backfill for mines	464	1,946	1,346
For roads (roadbed, surface)	6,646	86,724	49,955
Concrete aggregate - Sand	14,765	4,826	16,588
Gravel	5,472	1,965	7,497
Asphalt aggregate - Sand	1,296	911	2,043
Gravel	1,965	594	2,440
Railroad ballast	50	4,112	1,700
Mortar sand	1,670	693	1,966
Other special uses, silica, moulding, blast, etc.	955	568	1,010
Crushed gravel:			
Backfill for mines	41	233	235
Roads (roadbed, surface)	7,695	29,030	24,344
Concrete aggregate	5,782	811	8,887
Asphalt aggregate	1,946	957	2,545
Railroad ballast	985	1,239	1,686
Other uses	1,540	1,432	2,089
<b>Totals</b>	<b>54,077</b>	<b>151,183</b>	<b>133,820</b>
1966			
Production: <sup>1,2</sup>			
Sand and gravel:			
Fill	2,080	24,672	11,555
Backfill for mines	6	1,258	492
For roads (roadbed, surface)	5,787	90,629	63,584
Concrete aggregate - Sand	13,908	4,945	17,418
Gravel	6,071	1,228	7,726
Asphalt aggregate - Sand	1,732	591	2,097
Gravel	1,017	469	1,363
Railroad ballast	313	2,232	887
Mortar sand	1,699	491	2,121
Other special uses, silica, moulding, blast, etc.	707	351	1,004
Crushed gravel:			
Backfill for mines	-	102	89
Roads (roadbed, surface)	14,160	28,497	28,980
Concrete aggregate	4,543	1,564	7,241
Asphalt aggregate	1,248	1,143	2,957
Railroad ballast	727	565	1,134
Other uses	2,446	2,058	2,877
<b>Totals</b>	<b>56,444</b>	<b>160,795</b>	<b>151,525</b>

<sup>1</sup> Does not include production of natural silica sand nor 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".

<sup>2</sup> See footnote 2, Table 9.

TABLE 11. Producers' Shipments<sup>1</sup> of Sand and Gravel, by Provinces, 1965 and 1966

Province		1965	1966
		'000	
Newfoundland .....	ton	4,259	3,599
	\$	3,785	3,584
Prince Edward Island .....	ton	412	4,990
	\$	374	2,557
Nova Scotia .....	ton	6,638	8,109
	\$	4,563	10,756
New Brunswick .....	ton	4,569	5,367
	\$	2,639	2,990
Quebec .....	ton	45,101	45,877
	\$	21,010	21,552
Ontario .....	ton	88,565	94,124
	\$	63,406	67,246
Manitoba .....	ton	10,463	9,676
	\$	7,379	5,806
Saskatchewan .....	ton	8,808	8,314
	\$	5,716	5,089
Alberta .....	ton	14,377	12,886
	\$	11,438	10,299
British Columbia .....	ton	22,068	24,295
	\$	13,510	21,635
<b>Canada .....</b>	<b>ton</b>	<b>205,260</b>	<b>217,239</b>
	<b>\$</b>	<b>133,820</b>	<b>151,525</b>

<sup>1</sup> See footnote 2, Table 9.TABLE 12. Producers' Shipments<sup>1</sup> of Sand and Gravel, by Provinces, showing Purposes for which Used, 1965

	Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
For use as follows:						
Sand and gravel:						
Fill .....	ton 97,645	4,329,271	24,954	4,647,951	4,492,300	9,675,570
Backfill for mines .....	\$ 44,210	1,394,267	12,632	2,263,490	1,212,803	4,781,445
For roads (roadbed, surface) .....	ton 158,680	—	—	—	32,690	1,066,320
Concrete aggregate — Sand .....	\$ 79,340	—	—	—	24,615	381,050
Gravel .....	ton 2,876,217	180,000	6,148,241	112,335	19,821,390	45,380,786
Asphalt aggregate — Sand .....	\$ 2,682,625	180,000	8,886,229	96,300	7,135,700	29,547,061
Gravel .....	ton 175,987	180,000	166,480	37,825	5,097,006	10,468,380
Asphalt aggregate — Sand .....	\$ 296,933	270,000	174,225	29,232	2,874,205	10,401,360
Gravel .....	ton 195,312	25,000	544,746	32,743	103,790	4,024,820
Asphalt aggregate — Sand .....	\$ 307,563	57,289	489,170	40,123	59,465	3,975,820
Gravel .....	ton 600	71,726	54,410	40,274	368,655	1,571,965
Railroad ballast .....	\$ 150	143,324	68,092	41,317	248,210	1,390,220
Mortar sand .....	ton 2,600	—	64,144	—	110,050	540,080
Other special uses .....	\$ 650	—	68,994	—	25,305	408,955
Crushed gravel:	ton —	—	72,230	—	510,600	442,250
Backfill for mines .....	\$ —	—	70,030	—	112,795	135,830
Roads (roadbed, surface) .....	ton 2,700	—	34,470	14,255	368,505	1,529,015
Concrete aggregate .....	\$ 4,300	—	61,521	22,160	262,660	1,327,305
Asphalt aggregate .....	ton 15,880	—	—	—	148,615	342,935
Railroad ballast .....	\$ 53,990	—	—	—	73,295	352,520
Other uses .....	ton —	—	—	—	93,170	—
Crushed gravel:	\$ —	—	—	—	78,980	—
Backfill for mines .....	ton 43,500	—	881,423	335,342	14,168,835	12,599,410
Roads (roadbed, surface) .....	\$ 59,000	—	570,412	257,600	9,025,255	8,319,975
Concrete aggregate .....	ton —	2,000	18,476	53,988	232,040	4,204,420
Asphalt aggregate .....	\$ —	5,500	38,546	105,457	184,090	4,299,120
Railroad ballast .....	ton 17,100	202,000	60,100	89,356	205,205	620,150
Other uses .....	\$ 29,100	506,400	261,435	128,295	141,495	548,140
Crushed gravel:	ton —	—	—	—	90,820	225,580
Backfill for mines .....	\$ —	—	—	—	63,575	161,345
Roads (roadbed, surface) .....	ton 13,200	—	39,692	3,324	33,110	1,432,300
Concrete aggregate .....	\$ 26,400	—	55,131	6,484	39,640	1,215,675
Asphalt aggregate .....	ton —	—	—	—	—	—
Railroad ballast .....	\$ —	—	—	—	—	—
Other uses .....	ton 13,200	—	39,692	3,324	33,110	1,432,300
Crushed gravel:	\$ 26,400	—	55,131	6,484	39,640	1,215,675
Backfill for mines .....	ton —	—	—	—	—	—
Roads (roadbed, surface) .....	\$ —	—	—	—	—	—
Concrete aggregate .....	ton —	—	—	—	—	—
Asphalt aggregate .....	\$ —	—	—	—	—	—
Railroad ballast .....	ton —	—	—	—	—	—
Other uses .....	\$ —	—	—	—	—	—
<b>Totals .....</b>	<b>ton 3,599,421</b>	<b>4,989,997</b>	<b>8,109,366</b>	<b>5,367,393</b>	<b>45,876,782</b>	<b>94,123,982</b>
	<b>\$ 3,584,261</b>	<b>2,556,780</b>	<b>10,756,417</b>	<b>2,990,458</b>	<b>21,562,088</b>	<b>67,245,821</b>

<sup>1</sup> See footnote 2, Table 9.

TABLE 12. Producers' Shipments<sup>1</sup> of Sand and Gravel, by Provinces, showing Purposes for which Used, 1966 - Concluded

	Manitoba	Saskatchewan	Alberta	British Columbia	Canada
For use as follows:					
Sand and gravel:					
Fill .....	ton 575,341	86,516	985,443	1,836,670	26,751,661
\$ .....	242,405	91,021	562,663	950,377	11,555,313
Backfill for mines .....	ton -	-	6,263	-	1,263,953
\$ .....	-	-	6,713	-	491,718
For roads (roadbed, surface) .....	ton 5,675,164	277,721	1,086,869	14,857,555	96,416,278
\$ .....	1,260,757	139,839	407,453	13,248,206	63,584,170
Concrete aggregate - Sand .....	ton 667,121	175,343	667,238	1,217,161	18,852,541
\$ .....	865,559	189,590	975,610	1,340,934	17,417,648
Gravel .....	ton 341,812	70,101	209,773	1,751,367	7,299,464
\$ .....	504,742	65,207	357,745	1,869,366	7,726,490
Asphalt aggregate - Sand .....	ton 63,820	-	132,263	19,545	2,323,258
\$ .....	68,700	-	127,793	8,949	2,096,755
Gravel .....	ton 164,964	-	110,554	493,671	1,486,063
\$ .....	294,446	-	107,351	457,019	1,362,720
Railroad ballast .....	ton 452,286	390,467	501,217	176,105	2,545,155
\$ .....	187,435	160,582	105,425	115,149	887,246
Mortar sand .....	ton 81,223	6,251	150,558	3,443	2,190,420
\$ .....	89,214	8,295	337,408	7,650	2,120,513
Other special uses .....	ton 148,059	229,270	9	173,358	1,058,126
\$ .....	181,267	162,184	21	180,778	1,004,055
Crushed gravel:					
Backfill for mines .....	ton -	-	8,957	-	102,127
\$ .....	-	-	9,952	-	88,932
Roads (roadbed, surface) .....	ton 691,998	6,582,985	5,174,459	2,178,660	42,656,612
\$ .....	967,949	3,545,408	4,270,936	1,963,521	28,979,956
Concrete aggregate .....	ton 383,689	302,253	765,393	144,435	6,106,694
\$ .....	652,470	535,103	1,257,664	163,294	7,241,244
Asphalt aggregate .....	ton 109,446	108,538	85,882	892,649	2,390,426
\$ .....	169,469	124,978	169,612	877,910	2,956,834
Railroad ballast .....	ton 255,884	84,915	433,414	201,521	1,292,134
\$ .....	265,509	67,303	459,443	117,246	1,134,421
Other uses .....	ton 64,989	-	2,567,921	349,260	4,503,796
\$ .....	56,281	-	1,143,144	334,332	2,877,087
<b>Totals .....</b>	<b>ton 9,675,796</b>	<b>8,314,360</b>	<b>12,886,213</b>	<b>24,295,400</b>	<b>217,238,710</b>
	<b>\$ 5,806,203</b>	<b>5,089,410</b>	<b>10,298,933</b>	<b>21,634,731</b>	<b>151,525,102</b>

<sup>1</sup> See footnote 2, Table 8.

TABLE 13. Imports and Exports of Sand and Gravel, 1957-66

Year	Imports		Exports	
	Tons	Value	Tons	Value
	'000's	\$'000	'000's	\$'000
1957 .....	263	350	321	392
1958 .....	234	247	353	409
1959 .....	1,097	571	486	537
1960 .....	886	444	418	540
1961 .....	538	496	389	511
1962 .....	839	557	354	448
1963 .....	562	541	356	454
1964 .....	593	741	461	604
1965 .....	571	683	688	875
1966 .....	567	741	700	928

TABLE 14. Production<sup>1</sup> of Washed or Screened and Pit-run Grades, by Provinces, 1966

Province	Washed or screened	Bank or pit-run	Total	Value
	'000 tons			\$'000
Newfoundland .....	619	2,980	3,599	3,584
Prince Edward Island .....	97	4,893	4,990	2,557
Nova Scotia .....	1,980	6,129	8,109	10,756
New Brunswick .....	683	4,684	5,367	2,990
Quebec .....	8,375	37,502	45,877	21,562
Ontario .....	24,259	69,865	94,124	67,246
Manitoba .....	2,213	7,463	9,676	5,806
Saskatchewan .....	1,310	7,004	8,314	5,089
Alberta .....	9,033	3,853	12,886	10,299
British Columbia .....	7,873	16,422	24,295	21,635
<b>Totals .....</b>	<b>56,440</b>	<b>160,795</b>	<b>217,239</b>	<b>151,525</b>

<sup>1</sup> See footnote 2, Table 9.

## List of Establishment classified to the Sand and Gravel Industry, 1966

Note: 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.

Name of firm	Head office address	Location
<b>Newfoundland:</b>		
Barrett, C. .... Coastal Sand & Gravel Ltd. ....	Spaniards Bay ..... Box 427, St. John's .....	Spaniards Bay ..... Seal Cove .....
<b>Prince Edward Island:</b>		
Dumville, Stanley .....	O'Leary .....	O'Leary .....
<b>Nova Scotia:</b>		
Atlantic Sand & Gravel Ltd. .... Folly Lake Aggregates Ltd. .... Lakeside Sand & Gravel Co. Ltd. .... Maritime Sand & Gravel (1963) Co. Ltd. .... Naugle's Sand & Gravel Ltd. .... Nova Scotia Sand & Gravel Ltd. .... O.P. Mosher & Sons Ltd. .... Provincial Sand & Gravel .....	212 Halifax St., Moncton, New Brunswick ..... Londonderry Station ..... Box 268, Dartmouth ..... 57 Queen St., Dartmouth ..... West Lawrencetown ..... 1541 Barrington St., Halifax ..... Musquodoboit Harbour ..... Box 46, Armdale, Halifax ..... Windsor Forks .....	Lower Sackville ..... Londonderry Station ..... Schubenacadie ..... Halifax Co. .... West Lawrencetown ..... East Hants ..... Musquodoboit Harbour ..... Upper Tantallon ..... West Hants .....
<b>New Brunswick:</b>		
McNulty Cartage Ltd. ....	101 Sea St., St. John .....	Lancaster .....
<b>Québec:</b>		
Aubé, A. .... Banc de Sable, Edouard Goyer ..... Bélangier, Sable & Gravier Inc. .... Blanchard, O. .... Boulevards du Québec Ltée. .... Burelle, Y. .... Chabot, B. (W) ..... Charbonneau, T. & V. .... Chateauguay Sand Inc. .... Chevrier, E. .... Cie. A. Lagacé Ltée (La) ..... Cie. de Sable Ltée (La) ..... Cie. de Sable & Gravier de St. André ..... Construction St. Paul Ltée ..... Debien & Fils Ltée ..... De-Mix Ltée ..... Desmarais, Léo Paul ..... Domtar Chemicals Ltd. .... Entreprises P.E.B. Ltée ..... Entreprises Ste. Anne Engr. .... Filion & Frères Inc. .... Fortin, D. Ltd. .... Frontier Entreprises Ltd. .... Gergras, J.A. .... Gravier Concasse Warwick Ltée ..... Gravier Mont-Carmel Engr. .... Gravier St. Raphael Inc. .... Hains, A. Ltée ..... Intercomtes Construction Ltée ..... Lauzon, A. .... Lavote, J.H. .... Lemaire, Eusébe ..... Machabée, M. .... Melancon & Fils Inc. .... Nicolet R. .... Pine Beach Sand Limited ..... Pomerleau Sable & Gravier Cie Ltée ..... St. Hilaire, N. Inc. .... Sables du Nord Ltée ..... Sables L.G. Ltée ..... Sables des Mille Îles Ltée (Les) ..... Sablère Gregoire Inc. .... Sablère de Hull Engr. (La) ..... Sablère St. Félix Engr. .... Simard, D. .... Thouin, J. .... Val Morana Development ..... Valiquette et Frères .....	La Sarre ..... St. Bruno ..... 2, rue Amherst, Hull ..... St. Dominique de Bagot ..... 3484, boul. de la Chaudière, St. Foy ..... R.R. 4, Granby ..... St. Jean Baptiste ..... Piedmont ..... Box 337, St. Jean ..... St. Lazare ..... 22, de la Norandière, Québec ..... Beauport ..... St. André Est ..... St. Paul d'Abbotsford ..... 999, boul. La Sallette, Rivière Gagnon ..... C.P. 59 Longueuil ..... Notre-Dame de Lourdes ..... 1155 Dorchester Blvd. W., Montreal ..... Lac St. Charles ..... Ste. Anne des Plaines ..... St. Jérôme ..... Rouyn ..... Lacolle ..... Warwick ..... R.R.1, Warwick ..... 1470 Rang St. Louis, Mont-Carmel ..... L'Islet ..... 837, ave. Royale, Beauport ..... West Shefford ..... Les Cèdes ..... Notre Dame d'Hébertville ..... 118 ave. des Pins, Drummondville ..... St. Chrysostome ..... Grand'Mère ..... 154-121ème Ave. N., Sherbrooke ..... 2197, est rue Sherbrooke, Montréal ..... 9885, rue St. Urban, Montréal ..... St. Romuald ..... 9821 rue Lauzon, Montréal ..... 210-17 Ave. Deux Montagnes ..... 12, rue Chapleau, Montréal ..... Ste. Melanie ..... 62, rue Laval, Hull ..... St. Félix de Valois ..... Notre Dame d'Hébertville ..... Mascouche ..... Val Morin ..... Ste-Adèle-en-bas .....	La Sarre ..... St. Hilaire ..... Hull ouest ..... St. Dominique de Bagot ..... St. Foy ..... Granby ..... St. Jean Baptiste ..... Piedmont ..... Ste. Philomène ..... St. Lazare ..... Laval et Ste. Thérèse ..... Villeneuve ..... St. André Est ..... St. Paul d'Abbotsford ..... Rivière Gagnon ..... Lafliche ..... Notre-Dame de Lourdes ..... Ste. Emélie ..... Lac St. Charles ..... Ste. Anne ..... Terrebonne ..... Rouyn ..... Hemmingford ..... Warwick ..... Richmond ..... Varemont ..... St. Raphael ..... Ste. Thérèse de Lisieux ..... West Shefford ..... Les Cèdes ..... Notre Dame d'Hébertville ..... Drummondville ..... St. Chrysostome ..... Grand'Mère ..... Sherbrooke ..... St. Joseph du Lac ..... Pointe Calumet ..... St. Romuald ..... Mascouche ..... St. Calixte ..... Various ..... Ste. Melanie ..... Lucerne ..... St. Félix de Valois ..... Notre Dame d'Hébertville ..... Lachenaie ..... Val Morin ..... Ste-Adèle-en-bas .....
<b>Ontario:</b>		
Aberfoyle Sand & Gravel Ltd. .... Adams Sand & Gravel Ltd. .... Axford, K.R. .... Bannerman, H.H. .... Barnes Gravel Supply ..... Barriault, Charles ..... Battaglia E. .... Blair, A.L. Construction Ltd. .... Bowmanville Sand & Gravel ..... Brandes Construction Ltd. .... Burnside, C. ....	1771 Eagle St. N., Preston ..... R.R. 3, Chatham ..... 263 Sunset, St. Thomas ..... R.R. 4, Kincardine ..... 373 Cobden St., Sarnia ..... 50 Egerton Ave., Kapuskasing ..... 106 Ellerslie, Willowdale ..... Moose Creek ..... Bowmanville ..... Sault Ste. Marie ..... 121 Caroline Ave., Ottawa .....	Puslinch Twp. .... Harwich Twp. .... St. Thomas ..... Kinloss Twp. .... Plympton Twp. .... Teetzel Twp. .... Willowdale ..... Moose Creek ..... Bowmanville ..... Sault Ste. Marie ..... Nepean Twp. ....



## List of Establishments classified to the Sand and Gravel Industry, 1966 - Continued

Name of firm	Head office address	Location
<b>Ontario - Concluded:</b>		
Caledon Sand & Gravel Ltd.	3185 A. Bathurst St., Toronto	Caledon
Campbellville Gravel Supply Ltd.	Campbellville	Nassagaweya Twp.
Carpenter Sand & Gravel	R.R. 5, London	Fanshawe
Charlebois, A.	Penetang	Penetang
Chatham Sand & Gravel Co.	199 Stanley Ave., Chatham	Thames River
Chefero, J. Sand & Gravel Ltd.	506 Westmount Ave., Toronto	Maple
City Sand & Gravel Ltd.	180 Shurriff St., North Bay	Widdifield Twp.
Clark R.S. & Son Ltd.	Whiting St., Ingersoll	Ingersoll
Collingwood Sand, Gravel & Con. Ltd.	Collingwood	Orangeville
Commercial Sand & Gravel Ltd.	R.R. 1, Unionville	Markham Twp.
Connor Transport Limited	Maple	Various
Consolidated Sand & Gravel Limited	48 St. Clair Ave. W., Toronto 7	Paris, West Paris, Locust Hill, Malton Stouffville
Coppans Sand & Gravel	R.R. 1, Fenlon Falls	Fenlon Twp.
Cooper, Alf., & Company Ltd.	212 May St. N., Fort William	Paipooonge Twp.
Corbett, John N. Gravel Supply	Mount Elgin	Mount Elgin
Cornwall Gravel Co. Ltd.	Cornwall	Cornwall Twp.
Crawford-Ontario Sand & Gravel Ltd.	Box 280, Maple	Maple
Delorme Sand & Gravel	R.R. 2, North Bay	Widdifield Twp.
Dobbs, R.	Arthur	Arthur
Dorion & Anderson Asphalt Ltd.	Box 164 Midland	Midland
Dorion Sand & Gravel	R.R. 2, Midland	Tay Twp.
Duff, J.C. Limited	Rexdale	York Co.
Ellett Sand and Gravel	R.R. 2, Orillia	Orillia
Ennis, B., Sand & Gravel	Orillia	Orillia
Erie Sand & Gravel Ltd.	Kingsville	Point Pelee, Kingsville and Lake Erie
Ferguson, D.	R.R. 1, Brockville	Elizabethtown Twp.
Finch W. & Sons	Bracebridge	Bracebridge
Flintkote Company of Canada Ltd.	Box 160, Long Branch, Toronto 14	Brantford Twp.
Fonthill Sand & Gravel Limited	Box 596, Fonthill	Pelham Twp.
Forwell Ltd.	Box 1146, Kitchener	Breslau
Gateway Gravel Ltd.	539 Cassels St., North Bay	Widdifield Twp.
Giordano Sand & Gravel Ltd.	Whitevale	Whitevale
Goodreau, John	Northwood	Harwich Twp.
Gormley Sand & Gravel Ltd.	Stouffville	Whitchurch Twp.
Griffin, Frank Haulage	Barrie	Vespra Twp.
Guelph Sand & Gravel Limited	48 St. Clair Ave. W., Toronto 7	Freelton and Guelph
Hancock Sand & Gravel Ltd.	Sunderland	Brock Twp.
Hayward & Pickett Ltd.	Milton	Burlington
Highland Creek Sand & Gravel Ltd.	Box 130, West Hill	Scarborough
Holter, E.S. & Sons	Elmira	Woolwich Twp.
Holden Sand & Gravel Ltd.	797 Don Mills Rd., Don Mills	Lake Ontario, Lake Erie
Kam Aggregates Ltd.	Kammistiquia	Ware Twp.
K. & E. Sand & Gravel Ltd.	Box 115, Michigan Ave., Sarnia	Sarnia Twp.
Kingston Sand & Gravel Ltd.	235 Wellington St., Kingston	Glenburnie
Kritter, Wilfred	R.R. 2, Rodney	Rodney
Lake Erie Sand & Gravel Co.	R.R. 3, Merlin	Tilbury E. Twp.
Laprairie, M.	317 Spruce St. N., Timmins	Deloro Twp.
Lee Sand & Gravel Ltd.	8 Golfown Dr., Rexdale	Whitchurch Twp.
Lempiala Sand & Gravel	40 Leys St., Port Arthur	Corhan Twp.
Lennox Sand & Gravel Co. Ltd.	Wilton	Wilton
Leslie Trumbull & Son	Grand Bend	Bosanquet Twp.
Lockyer Bros Ltd.	Alton	Mono Twp.
Macdonald, G.D.	336 Sidney St., Trenton	Trenton
Marshall, J.F.A. & Sons Ltd.	R.R. 5, London	Middlesex Co.
Massecar and Eckford	Courtland	Windham Twp.
McClellan's Sand & Gravel Ltd.	R.R. 2, Kilworthy	Morrison Twp.
McColgan Sand & Gravel Ltd.	Box 75, Barrie	Barrie
McKay, Don	Bridgenorth	Bridgenorth
McLaws Gravel & Crushing Ltd.	R.R. 5, St. Thomas	St. Thomas
McRae, Cecil Limited	Box 23, London	Byron
Monarch Sand and Gravel	Rexdale	Vaughan Twp.
Moyer Sand & Gravel Ltd.	Box 99, Fenwick	Pelham Twp.
Nairn Bros.	R.R. 5, St. Marys	Blanshard Twp.
Nash, J.R. & Son Ltd.	R.R. 2, Northwood	Harwich Twp.
National Sand & Material Co. Ltd.	48 St. Clair Ave., Toronto 7	Lake Erie, Lake Ontario
Northern Sand and Gravel Co. Ltd.	177 Eyre St., Sudbury	Sudbury
Ornell Sand & Gravel	R.R. 1, Fenlon Falls	Fenlon Twp.
Oxford Sand & Gravel Limited	R.R. 4, Woodstock	Oxford Twp.
Pagnutti Bros. Sand & Gravel Ltd.	359 Sandra Blvd., Sudbury	Dill Twp.
Parton, E.	158 William St., Parry Sound	Parry Sound
Patterson Bros.	Grand Bend	Bosanquet Twp.
Peel Sand & Gravel Ltd.	Cooksville	Toronto Twp.
Pinewood Aggregates Ltd.	Maple	Maple
Penetang Sand & Gravel	Church St., Penetang	Penetang
Preston Sand and Gravel Co. Ltd.	Preston	Preston
Regal Washed Sand & Stone Ltd.	Box 181, Peterborough	Douro Twp.
Regan, John B. Co. Ltd.	West Hill	Scarborough Twp.
Roadway Sand & Gravel Ltd.	1425 Bayview Ave., Toronto 17	Whitchurch Twp.
Roberts & Sons	Unionville	Whitchurch Twp.
St. Davids' Sand & Gravel Ltd.	Box 100, Thorold	Niagara Falls
Sabiston, James Limited	Unionville	Markham Twp.
Sandore Gravel Co. Ltd.	R.R. 2, Schomberg	King Twp.
Sarduletz, N.	R.R. 2, Kenora	Jaffray & Melick Twp.
Schneider Sand and Gravel Ltd.	63 West Ave., Kitchener	Petersburg
Scott, Dave, Sand and Gravel	Trenton	Trenton
Shelton, Bros. Ltd.	R.R. 5, Ingersoll	Dereham Twp.
Smith, W.D. & Son Ltd.	305 Admiral Rd., Ottawa	Pickering and Whitby Twps.
Spratt Sand & Gravel Ltd.	Box 68, R.R. 4, Ottawa	Gloucester, Hundley Twps.
Springbank Sand & Gravel Ltd.	Port Credit	Toronto Twp.
Strickler, R.	R.R. 1, Wilsonville	Oakland Twp.
Sunderland Sand & Gravel Ltd.	Sunderland	Sunderland

## List of Establishments classified to the Sand and Gravel Industry, 1966 - Concluded

Name of firm	Head office address	Location
<b>Ontario - Concluded:</b>		
Superior Sand, Gravel & Supplies Ltd.	347 Bay St. Toronto	Vaughan Twp.
Sutherland, Wm. J.	Bond Head	Tecumseh Twp.
Sweet's Sand & Stone Ltd.	Seeley's Bay	Seeley's Bay
Telephone City Gravel Co. Ltd.	Brantford	Brantford Twp.
Trent Valley Sand & Stone Ltd.	Brighton	Brighton
Vacoe Bros. Ltd.	Barrie	Vespra District
Ward Bros.	Box 104, Wawa	Algoma District
West, C.	1436 London Rd., Sarnia	Sarnia Twp.
Wharnock & Johnson Ltd.	Markham	Markham Twp.
Woollatt Industries Ltd.	2999 Grand Marais Rd., Windsor	Leamington
<b>Manitoba:</b>		
Archison Construction Ltd.	Pipestone	Pipestone
B.A.C.M. Ltd.	205 Stadacona St., Winnipeg	Springfield
Birds' Hill Sand & Stone Ltd.	Birds' Hill	Birds' Hill
Bradley Sand & Gravel Ltd.	861-24th St., Brandon	Various
Elmhurst Gravel Ltd.	1820 Birds' Hill Rd., Winnipeg	Birds' Hill
Fraser Sand & Gravel Co. Ltd.	850 Somerset Bldg., Winnipeg	Birds' Hill
Gagne Gravel Co. Ltd.	29 Millfield Drive, St. Vital	St. Pierre
Kissick, G.D.	Box 280, Miami	Miami
Main Construction Ltd.	Box 598, Carman	Carman
North Star Gravel Ltd.	809 Paris Bldg., Winnipeg	Thompson
Riverside Gravel Company Ltd.	237 Enfield Crescent, Winnipeg	Various
Schettler, E.	Plumas	Westbourne
Sutherland Aggregates Ltd.	108-191 Lombard St., Winnipeg	St. Boniface
Tordon Enterprises Ltd.	Dauphin	Dauphin
<b>Saskatchewan:</b>		
Bonn, W. Ltd.	135-14th St. W., Prince Albert	Nisbet Forest Reserve
Hahn, H.G. Sand & Gravel Ltd.	Belle Plaine	Pense
Hutton, George	Flin Flon	Flin Flon
Nagel's Transfer	Leader	Leader
Rex - Underwood (Saskatoon) Ltd.	139-105th St., Saskatoon	Various
Saskatoon Sand & Gravel Ltd.	Sutherland P.O., Saskatoon	Blucher
Schnell, F.	Box 64, Torquay	Torquay
Simmons, R. & Son	Unity	Unity
<b>Alberta:</b>		
Apex Gravel Ltd.	10350-124 St., Edmonton	Sturgeon River and Strathcona
Burns, J.F. Sand & Gravel Ltd.	812-46th Ave. S.E., Calgary	Calgary
Cordon W.F. Sand & Gravel	Box 328, Eckville	Eckville
Foothill Sand & Gravel Ltd.	Grande Prairie	Grande Prairie
Fort McLeod Sand & Gravel Ltd.	Box 1024, Fort McLeod	Fort McLeod
Jarvie, J.A. Sand & Gravel	Box 667, Lethbridge	Lethbridge
Steel Bros & Co. (Canada) Ltd.	9935-170th St., Edmonton	Calgary
Stewart, Gordon L.	Box 62, Grande Prairie	Grande Prairie
Taber Sand & Gravel Ltd.	Box 850, Taber	Taber
Tollestrup Sand & Gravel Co.	Box 474, Lethbridge	Lethbridge
Twin Bridges Sand & Gravel Ltd.	Box 10, Edmonton	Edmonton, Clover Bar and Kinsella
Yardley's Sand & Gravel	5302-3rd St. S.E., Calgary	De-Winton
<b>British Columbia:</b>		
Abbotsford Gravel Sales Ltd.	Box 1270, Abbotsford	Abbotsford
B. & B. Gravel Ltd.	Cloverdale	Langley
Butler Bros. Supplies Ltd.	Box 936, Victoria	Royal Oak
Construction Aggregates Ltd.	New Westminster	Britannia Beach
Highland Sand & Gravel Co. Ltd.	900 Wharf St., Victoria	Royal Bay
Hilltop Sand & Gravel Co. Ltd.	Box 87, Kelowna	Kelowna
Johnson Aggregates Ltd.	6866 Gerrard St., Powell River	Powell River
Linton's Construction Co. Ltd.	North Surrey	North Surrey
M. & W. Sand & Gravel	984 Beckwith Rd., Richmond	North Delta
Ocean Cement Ltd.	900 Wharf St., Victoria	Royal Bay
Ocean Cement Ltd.	North foot Columbia St., Vancouver	Cassidy
Ocean Cement Ltd.	Box 1270, Victoria	Port Coquitlam
Pete's Transfer	Powell River	Powell River
Premier Sand & Gravel Co. Ltd.	Nelson	Nelson
Routledge Gravel Ltd.	New Westminster	Furry Creek
Tremblay Sand & Gravel Co. Ltd.	Dawson Creek	Dawson Creek
Valley Rite-Mix Ltd.	Clearbrook	Clearbrook





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