

Mineral Aggregates

Oliver Vagt

*The author is with the Minerals and Metals Sector,
Natural Resources Canada.
Telephone: (613) 992-2667
E-mail: ovagt@nrcan.gc.ca*

Total Canadian shipments of mineral aggregates (mainly crushed stone and sand and gravel for construction uses, but excluding limestone used to process cement and lime), amounted to approximately 307 Mt in 1999. This amount is about 4% higher than in 1998, based on preliminary figures.

Increased demand for aggregates is expected in 2000 based on expansions in the residential and non-residential construction sectors. Unit values generally continued to increase in pace with the rate of inflation, with selling prices varying considerably depending on proximity to consumers. Additional detailed information relating to all types of stone, including limestone, granite, marble, sandstone and shale, is included in a separate chapter on Stone.

The multi-year cost-shared program for infrastructure renewal supported by all three levels of government has contributed to total construction activity in Canada. Related program expenditures were discontinued in the 1998/99 fiscal year; however, additional funding to strengthen federal, provincial, and municipal infrastructure is expected in the March 2000 federal budget.

Trade in aggregates, mainly with the United States, is minimal in most regions. However, the new six-year *Transportation Equity Act for the 21st Century*, which appropriates US\$205 billion through 2003, may result in additional export opportunities for strategically located aggregates producers based in Canada.

Notes: (1) For definitions and valuation of mineral production, shipments and trade, please refer to Chapter 65. (2) Information in this review was current as of February 1, 2000. (3) This and other reviews, including previous editions, are available on the Internet at http://www.nrcan.gc.ca/mms/cmy/index_e.html.

NOTE TO READERS

The intent of this document is to provide general information and to elicit discussion. It is not intended as a reference, guide or suggestion to be used in trading, investment, or other commercial activities. The author and Natural Resources Canada make no warranty of any kind with respect to the content and accept no liability, either incidental, consequential, financial or otherwise, arising from the use of this document.

TABLE 1. CANADA, TOTAL PRODUCTION OF STONE, 1997-99

	1997		1998		1999P	
	(000 t)	(\$000)	(000 t)	(\$000)	(000 t)	(\$000)
BY PROVINCE/TERRITORY¹						
Newfoundland	2 336	20 974	2 606	19 837	2 516	16 553
Nova Scotia	7 764	45 523	7 628	45 348	7 005	42 094
New Brunswick	3 934	20 293	3 500	20 796	3 667	22 582
Quebec	29 043	187 544	32 220	215 171	29 791	211 029
Ontario	44 839	299 792	50 689	344 707	49 602	360 238
Manitoba	4 249	18 718	4 992	24 971	4 547	22 503
Alberta	591	6 698	633	5 362	488	4 865
British Columbia	6 266	43 497	6 321	46 995	6 156	47 906
Northwest Territories	243	1 123	336	4 760	255	4 599
Total	99 265	644 162	108 924	727 947	104 026	732 369
BY USE²						
Dimensional stone						
Rough	285	30 799	302	34 100	..	..
Monumental and ornamental stone (n.f.)	54	6 356	68	5 691	..	..
Other (flagstone, curbstone, paving blocks, etc.)	54	6 186	66	8 668	..	..
Lining open-hearth furnaces	-	-	-	-	..	..
Chemical and metallurgical						
Cement plants, Canada	14 731	45 065	14 334	46 555	..	..
Cement plants, foreign	1 747	8 234	1 632	7 973	..	..
Flux in iron and steel furnaces	332	2 154	3 406	21 830	..	..
Flux in nonferrous smelters	158	1 046	129	900	..	..
Glass factories	181	2 850	203	3 635	..	..
Lime plants, Canada	4 285	26 276	3 353	18 558	..	..
Lime plants, foreign	447	2 503	216	1 843	..	..
Pulp and paper mills	117	1 216	89	1 046	..	..
Sugar refineries	..	1	-	-	..	..
Other chemical uses	1 902	11 854	1 748	11 787	..	..
Pulverized stone						
Whiting	44	3 250	48	3 631	..	..
Asphalt filler	164	226	175	261	..	..
Dusting coal mines	4	286	3	219	..	..
Agricultural purposes and fertilizer plants	1 078	15 617	1 169	17 914	..	..
Other uses	875	32 838	806	37 892	..	..
Miscellaneous stone						
Manufacture of artificial stone	8	291	10	395	..	..
Roofing granules	450	21 290	580	25 388	..	..
Poultry grit	167	1 848	188	2 080	..	..
Stucco dash	20	2 355	25	3 598	..	..
Terrazzo chips	4	179	4	153	..	..
Rock wool	34	571	14	214	..	..
Rubble and riprap	693	3 032	1 415	8 147	..	..
Other uses	1 869	16 489	944	8 350	..	..
Crushed stone for						
Concrete aggregate	12 631	72 511	17 537	99 721	..	..
Asphalt aggregate	12 559	75 803	10 398	63 791	..	..
Road metal	35 137	180 657	31 135	165 001	..	..
Railroad ballast (includes traprock)	1 563	13 783	2 187	16 668	..	..
Other uses	27 674	133 230	35 318	181 157	..	..
Total	119 267	718 792	127 502	797 167	..	..

Source: Natural Resources Canada.

- Nil; .. Not available; ... Amount too small to be expressed; n.f. Not finished or dressed; p Preliminary.

¹ Data exclude stone used in the Canadian cement, lime and clay industries. ² Data include stone used in the Canadian cement, lime and clay industries.

Note: Numbers may not add to totals due to rounding.

TABLE 2. CANADA, PRODUCTION OF SAND AND GRAVEL¹ BY PROVINCE AND TERRITORY, 1997-99

	1997		1998		1999P	
	(000 t)	(\$000)	(000 t)	(\$000)	(000 t)	(\$000)
Newfoundland	2 426	11 719	3 714	17 764	3 728	17 904
Prince Edward Island	240	1 006	199	898	260	1 358
Nova Scotia	3 236	13 921	2 400	10 927	2 409	10 820
New Brunswick	4 183	x	4 336	x	4 661	x
Quebec	31 274	82 562	27 319	72 414	23 940	64 554
Ontario	90 515	337 137	88 186	325 109	86 705	321 663
Manitoba	10 798	x	10 135	x	9 627	x
Saskatchewan	10 750	x	12 032	x	12 320	x
Alberta	36 607	147 200	43 998	200 823	40 171	196 066
British Columbia	32 999	151 869	31 908	161 084	33 558	163 398
Yukon	914	3 045	690	2 123	621	2 094
Northwest Territories	1 553	3 963	419	2 009	458	2 175
Total	225 495	829 190	225 338	875 226	218 458	861 659

Source: Natural Resources Canada.

P Preliminary; x Confidential.

¹ Production represents shipments of natural gravel, sand and crushed gravel. Does not include shipments to Canadian cement plants.

Note: Numbers may not add to totals due to rounding.

TABLE 3. AVAILABLE DATA ON CONSUMPTION OF SAND AND GRAVEL, BY REGION, 1997 AND 1998

		Atlantic	Quebec	Ontario	Western	Canada
		Provinces			Provinces ¹	
(000 tonnes)						
Road bed, surface	1997	5 281	19 091	44 020	47 896	116 287
	1998	5 778	16 351	40 193	46 601	108 923
Roads, ice control	1997	329	1 007	2 515	1 334	5 184
	1998	476	716	2 713	3 768	7 672
Concrete aggregate	1997	1 587	3 461	12 831	14 650	32 530
	1998	1 514	2 668	13 997	17 301	35 479
Asphalt aggregate	1997	1 035	3 260	8 497	7 195	19 987
	1998	886	2 570	7 904	10 071	21 430
Railroad ballast	1997	5	2	6	319	332
	1998	38	1	5	177	221
Mortar sand	1997	32	337	919	261	1 549
	1998	40	283	1 091	284	1 698
Backfill for mines	1997	...	38	1 299	168	1 504
	1998	...	32	1 188	791	2 011
Fill	1997	1 100	1 796	7 776	7 834	18 506
	1998	884	2 446	9 301	7 397	20 027
Other purposes	1997	755	2 282	12 814	14 177	30 029
	1998	1 076	2 253	12 304	13 028	28 661
Total	1997	10 123	31 274	90 677	93 834	225 908
	1998	10 690	27 319	88 694	99 418	226 122

Source: Natural Resources Canada.

... Amount too small to be expressed.

¹ The western provinces include the Yukon and Northwest Territories.

Note: Numbers may not add to totals due to rounding.

TABLE 4. CANADA, EXPORTS AND IMPORTS OF SAND AND GRAVEL AND CRUSHED STONE, 1997-99

Item No.	1997		1998		1999P	
	(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)
EXPORTS						
2505.90	Natural sands n.e.s., excluding metal-bearing sands					
United States	298 640	2 856	333 040	3 735	452 415	5 060
Barbados	—	—	—	—	53 538	1 719
Bahamas	27 182	507	21 009	548	41 220	968
Iceland	—	—	—	—	4 313	285
Venezuela	—	—	75	40	427	156
Bermuda	13 352	241	7 691	76	16 066	153
Jamaica	101 178	2 033	—	—	—	—
Thailand	—	—	11 594	116	—	—
Other countries	5 948	46	177	52	302	81
Total	446 300	5 683	373 586	4 567	568 281	8 422
2517.10	Pebbles, gravel, broken or crushed stone used for aggregates, etc.					
United States	3 102 466	24 140	3 075 787	27 522	3 287 916	33 381
Bahamas	18 261	412	34 021	727	45 865	1 103
Barbados	—	—	—	—	15 832	467
Iceland	—	—	—	—	3 715	243
Bermuda	13 155	129	25 927	462	4 743	50
Suriname	—	—	32 620	414	—	—
Guyana	16 832	173	19 181	231	—	—
Other countries	78 298	862	14 712	111	57	1
Total	3 229 012	25 716	3 202 248	29 467	3 358 128	35 245
2517.41	Marble granules, chippings and powder of 25.15 or 25.16, heat-treated or not					
United States	128 601	17 558	244 565	27 251	267 109	37 943
France	1 178	135	8	24	85	15
Norway	5 587	582	—	—	—	—
Total	135 366	18 275	244 573	27 275	267 194	37 958
2517.49	Granules, chippings and powder, n.e.s., of 25.15 or 25.16, heat-treated or not					
Barbados	—	—	—	—	39 711	1 011
United States	1 311	118	1 638	158	1 427	118
Other countries	154	20	94	48	17	10
Total	1 465	138	1 732	206	41 155	1 139
2518.10	Dolomite, not calcined					
United States	707 573	4 489	967 762	9 075	2 110 068	21 682
Mexico	—	—	—	—	227 070	2 022
Venezuela	—	—	—	—	75 889	1 034
Other countries	228	59	—	—	5	94
Total	707 801	4 548	967 762	9 075	2 413 032	24 832
2518.20	Calcined dolomite					
United States	33 620	6 390	32 515	6 459	29 466	6 696
Trinidad and Tobago	50 559	670	—	—	—	—
Venezuela	26 602	355	—	—	—	—
Other countries	40	11	—	—	110	30
Total	110 821	7 426	32 515	6 459	29 576	6 726
2518.30	Agglomerated dolomite (including tarred dolomite)					
Total	—	—	—	—	—	—
2521.00	Limestone flux; limestone and other calcareous stone used for lime or cement					
United States	2 523 677	14 552	2 761 101	21 515	2 521 646	16 487
Australia	—	—	20	15	—	—
Total	2 523 677	14 552	2 761 121	21 530	2 521 646	16 487
IMPORTS						
2505.90	Natural sands n.e.s., excluding metal-bearing sands					
United States	288 537	6 568	310 580	8 402	294 935	7 940
India	—	—	414	66	618	99
United Kingdom	1 239	42	2 632	58	1 320	46
China	6	2	11	..	160	44
Philippines	55	26	111	42	533	35
Germany	13	2	27	7	128	14
France	13	3	146	47	99	9
Australia	467	131	356	26	30	7
South Africa	5 654	12	2	..	1	..
Other countries	403	45	240	40	105	15
Total	296 387	6 831	314 519	8 688	297 929	8 209

TABLE 4 (cont'd)

Item No.	1997		1998		1999 ^p		
	(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)	
IMPORTS (cont'd)							
2517.10	Pebbles, gravel, broken or crushed stone used for aggregates, etc.						
	United States	3 278 576	17 240	3 188 068	18 688	3 126 432	17 505
	China	6 207	54	16 077	141	7 674	73
	United Kingdom	1 880	26	461	28	1 316	49
	France	328	4	1 390	9	1 578	14
	Philippines	1 072	11	1 508	18	1 035	12
	Mexico	1 107	7	823	10	836	7
	Papua New Guinea	3 196	12	—	—	—	—
	Other countries	836	32	677	15	1 490	13
	Total	3 293 202	17 386	3 209 004	18 909	3 140 361	17 673
2517.20	Macadam of slag, dross or similar industrial waste, etc.						
	United States	907	3	5 746	45	5 209	34
	Other countries	162	1	133	1	317	2
	Total	1 069	4	5 879	46	5 526	36
2517.30	Tarred macadam						
	United States	550	26	1 149	47	119	6
	Total	550	26	1 149	47	119	6
2517.41	Marble granules, chippings and powder of 25.15 or 25.16, heat-treated or not						
	United States	78 568	12 646	103 938	17 120	88 377	15 207
	Italy	106	16	51	11	155	25
	France	373	44	181	38	96	16
	Other countries	57	9	8	1	14	2
	Total	79 104	12 715	104 178	17 170	88 642	15 250
2517.49	Granules, chippings and powder, n.e.s., of 25.15 or 25.16, heat-treated or not						
	United States	77 214 ^r	1 907 ^r	38 491	1 588	25 851	1 323
	Portugal	—	—	—	—	247	24
	Brazil	21	2	104	10	191	23
	France	527	60	570	68	109	10
	Greece	—	—	1 334	72	—	—
	Other countries	251	18	84	6	170	18
	Total	78 013 ^r	1 987 ^r	40 583	1 744	26 568	1 398
2518.10	Dolomite, not calcined						
	United States	2 711	504	2 635	499	3 329	659
	Other countries	8	2	10	2	20	7
	Total	2 719	506	2 645	501	3 349	666
2518.20	Calcined dolomite						
	United States	6 459	952	2 946	584	3 078	615
	Canada	—	—	143	13	756	86
	Total	6 459	952	3 089	597	3 834	701
2518.30	Agglomerated dolomite (including tarred dolomite)						
	United States	10	4	100	28	159	44
	China	—	—	—	—	...	...
	Total	10	4	100	28	159	44
2521.00	Limestone flux; limestone and other calcareous stone used for lime or cement						
	United States	3 210 105	15 160	3 858 730	17 619	4 144 397	18 303
	Israel	—	—	—	—	5 156	23
	France	56	...	—	—	4 077	15
	Mexico	4 255	25	6 652	17	4 043	14
	Other countries	3 156	11	4 456	12	2 792	11
	Total	3 217 572	15 196	3 869 838	17 648	4 160 465	18 366

Source: Statistics Canada.

— Nil; ... Amount too small to be expressed; n.e.s. Not elsewhere specified; ^p Preliminary; ^r Revised.

Note: Numbers may not add to totals due to rounding.

TABLE 5. LIGHTWEIGHT AGGREGATE PRODUCERS IN CANADA, 1998

Company	Location	Commodity	Remarks
ATLANTIC PROVINCES			
Fafard Peat Moss Company Ltd.	Inkerman, N.B.	Perlite, vermiculite	Processed for use in horticulture.
Sun Gro Horticulture Canada Ltd.	Maisonnette, N.B.	Perlite	Processed for use in horticulture.
QUEBEC			
Premier Peat Moss Ltd.	Rivière-du-Loup	Perlite, vermiculite	Processed for use in horticulture.
Vermi-Lite Inc.	Baie-du-Febvre	Perlite, vermiculite	Processed for use in horticulture.
ONTARIO			
Grace Canada, Inc.	Ajax	Vermiculite, perlite	Vermiculite processed for use in horticulture, as loose insulation, and in friction materials. Perlite processed for use in gypsum plaster, horticulture, refractories and as loose insulation.
Lafarge Canada Inc., Hamilton Slag Division	Hamilton	Slag	Used in concrete products industry and as fill.
V.I.L. Vermiculite Inc.	Woodbridge Lachine, Que. (plant)	Vermiculite, perlite	Vermiculite processed for use in loose insulation, horticulture and concrete products. Perlite processed for use in horticulture.
PRAIRIE PROVINCES			
Cindercrete Products Ltd.	Saskatoon, Sask.	Expanded clay	Processed for concrete products industry.
Grace Canada, Inc.	Winnipeg, Man.	Vermiculite, perlite	Perlite processed for use in gypsum plaster, loose insulation and in horticulture.
	Edmonton, Alta.	Vermiculite, perlite	Vermiculite processed for use in horticulture and in friction material and as loose insulation.
Inland Cement Limited	Calgary, Alta.	Expanded shale	Processed for concrete products industry and for loose insulation.
	Edmonton, Alta.	Expanded clay	Processed for concrete products industry, and for loose insulation.
Sun Gro Horticulture Canada Ltd.	Elma, Man. Seba Beach, Alta.	Perlite Perlite, pumice	Processed for use in horticulture. Processed for use in horticulture.
BRITISH COLUMBIA			
Canada Pumice Corporation	Nakzo, Quesnel	Pumice	A range of pumice products for construction and landscaping material.
Great Pacific Pumice Inc.	Vancouver	Pumice	Used in horticulture and concrete products industry.
Ocean Construction Supplies Limited	Vancouver	Pumice	Purchased for concrete products industry.

Source: Natural Resources Canada, reported from NRCan survey questionnaire "Production of Lightweight Aggregates in Canada."

TABLE 6. CANADA, IMPORTS AND EXPORTS OF VERMICULITE, PERLITE AND PUMICE, 1997-99

Item No.		1997		1998		1999P	
		(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)
EXPORTS							
2513.11	Pumice stone, crude or in irregular pieces, including crushed pumice						
	United States	170	31	443	76	-	-
	Total	170	31	443	76	-	-
2513.19	Pumice stone, other						
	United States	21	4	-	-	-	-
	Total	21	4	-	-	-	-
2530.10	Vermiculite, perlite and chlorites, unexpanded						
	United States	..	16	..	75	..	49
	Netherlands	-	-	-	-	..	21
	Chile	-	-	-	-	..	6
	Total	..	16	..	75	..	76
IMPORTS							
2513.11	Pumice stone, crude or in irregular pieces, including crushed pumice						
	United States	4 182	643	4 841	756	4 807	782
	Turkey	5 076	700	3 450	528	3 877	504
	Greece	26	2	337	94	117	16
	Other countries	58	14	435	89	42	9
	Total	9 342	1 359	9 063	1 467	8 843	1 311
2513.19	Pumice stone, other						
	United States	2 364	482	2 816	578	2 861	600
	Other countries	458	99	574	117	860	181
	Total	2 822	581	3 390	695	3 721	781
2530.10.00.10	Vermiculite, unexpanded						
	South Africa	13 115	3 029	12 293	3 110	18 628	4 749
	United States	9 044	1 479	10 894	1 806	13 196	2 445
	Greece	3 332	320	3 518	333	1 792	227
	Other countries	-	-	60	12	1 990	327
	Total	25 491	4 828	26 765	5 261	35 606	7 748
2530.10.00.20	Perlite, unexpanded						
	United States	30 340	4 764	27 157	5 058	33 866	6 417
	Greece	12 413	1 259	17 094	2 037	23 915	2 632
	Other countries	28	3	3	...	...	...
	Total	42 781	6 026	44 254	7 095	57 781	9 049
3802.90.00.20	Activated perlite, excluding expanded perlite ground to be employed in filtering						
	United States	350	235	413	219	438	218
	Other countries	38	42	-	-	-	-
	Total	388	277	413	219	438	218
6806.20.00.10	Exfoliated (expanded) vermiculite						
	United States	225	661	326	1 237	485	1 871
	South Africa	1	2	2	5	19	44
	Other countries	...	...	-	-	5	11
	Total	226	663	328	1 242	509	1 926
6806.20.00.20	Expanded perlite						
	United States	6 740	4 279 ^r	9 012	5 892	8 383	5 933
	Germany	4	3	13	9	-	-
	Total	6 744	4 282 ^r	9 025	5 901	8 383	5 933

Source: Statistics Canada.

... amount too small to be expressed; - Nil; p Preliminary; r Revised.

Note: Numbers may not add to totals due to rounding.

TABLE 7. CANADA, LIGHTWEIGHT AGGREGATES PRODUCED, SOLD AND USED, 1997 AND 1998

	1997				1998			
	Produced		Sold and Used		Produced		Sold and Used	
	(m ³)	(\$)	(m ³)	(\$)	(m ³)	(\$)	(m ³)	(\$)
From domestic and/or imported raw materials								
Expanded clay, shale and slag ¹	205 861	6 931 806	185 435	6 153 926	192 636	6 117 329	195 718	6 579 311
From imported crude materials								
Expanded perlite and exfoliated vermiculite ¹	484 830	24 582 603	515 641	26 182 462	569 204	29 904 132	611 318	32 098 810
Total	690 691	31 514 409	701 076	32 336 388	761 840	36 021 461	807 036	38 678 121

Source: Natural Resources Canada, reported from NRCan survey questionnaire "Production of Lightweight Aggregates in Canada" (see Table 5 for list of establishments surveyed).

¹ Combined to avoid disclosing confidential company data.

TABLE 8. CANADA, SALES OF EXPANDED SLAG, PERCENTAGE BY END USE, 1996-98

Use	1996	1997	1998
	(%)		
Concrete block manufacture	96.0	74.5	72.6
Ready-mix concrete	4.0	3.3	5.3
Miscellaneous uses	—	22.2	22.1

Source: Natural Resources Canada, reported from NRCan survey questionnaire "Production of Lightweight Aggregates in Canada."

— Nil.

Notes: See Table 5 for list of establishments surveyed. Sales also imply quantities consumed for own use.

TABLE 9. CANADA, SALES OF EXPANDED CLAY AND SHALE, PERCENTAGE BY END USE, 1996-98

Use	1996	1997	1998
	(%)		
Loose insulation	51.6	41.6	52.2
Concrete block manufacture	43.7	54.0	44.2
Precast concrete manufacture	1.8	1.5	1.2
Ready-mix concrete	2.0	2.9	1.1
Horticulture and miscellaneous uses	0.9	—	1.2

Source: Natural Resources Canada, reported from NRCan survey questionnaire "Production of Lightweight Aggregates in Canada."

— Nil.

Notes: See Table 5 for list of establishments surveyed. Sales also imply quantities consumed for own use.

TABLE 10. CANADA, SALES OF EXPANDED PERLITE, PERCENTAGE BY END USE, 1996-98

Use	1996	1997	1998
	(%)		
Horticulture and agriculture	94.2	92.0	94.7
Loose insulation and miscellaneous uses	3.1	7.3	4.7
Insulation in gypsum products in other construction materials	2.8	0.8	0.6
	—	—	—

Source: Natural Resources Canada, reported from NRCan survey questionnaire "Production of Lightweight Aggregates in Canada."

— Nil.

Notes: See Table 5 for list of establishments surveyed. Sales also imply quantities consumed for own use.

TABLE 11. CANADA, SALES OF EXPANDED VERMICULITE, PERCENTAGE BY END USE, 1996-98

Use	1996	1997	1998
	(%)		
Horticulture	86.0 ^r	86.1	83.6
Loose insulation	2.4	2.1	2.9
Miscellaneous uses	11.6 ^r	11.8	13.6

Source: Natural Resources Canada, reported from NRCan survey questionnaire "Production of Lightweight Aggregates in Canada."

^r Revised.

Notes: See Table 5 for list of establishments surveyed. Sales also imply quantities consumed for own use.

TABLE 12. CANADA, VALUE OF CONSTRUCTION BY TYPE, 1994-97

	1994	1995	1996	1997
	(\$ millions)			
BUILDING CONSTRUCTION				
Residential	34 922	29 186	32 575	37 407
Industrial	3 006	3 243	4 236	4 057
Commercial	6 251	6 265	6 936	7 210
Institutional	4 931	4 982	4 955	4 792
Other	1 948	2 095	2 293	2 349
Total building	51 058	45 770	50 995	55 815
ENGINEERING CONSTRUCTION				
Marine	492	445	449	454
Transportation	6 032	6 436	6 158	5 758
Waterworks	904	1 140	1 360	1 672
Sewage, dams, sanitary systems	1 501	1 585	1 390	1 449
Electric power	3 965	3 441	2 935	2 412
Communications	1 446	1 298	1 880	2 064
Gas and oil facilities	13 721	13 474	12 891	17 187
Other	2 325	2 803	2 491	2 869
Total engineering	30 386	30 621	29 554	33 865
Total construction	81 444	76 391	80 549	89 680

Sources: Natural Resources Canada; Statistics Canada, catalogue no. 61-223-XIB, *Capital Expenditures by Type of Asset* (additional information is also available on the Internet at <http://www.statcan.ca/english/Pgdb/Economy/Manufacturing/manuf18.htm> or <http://www.cmhc-schl.gc.ca/MkInfo/store/#nho>).

Notes: Numbers may not add to totals due to rounding. Expenditures include value of new construction as well as major renovation work purchased.