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CONSTRUCTION IN CANADA

1962-64

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Business Finance Division

Operations Section

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INTRODUCTION

This report contains data on construction activity undertaken in Canada during 1962 and 1963 and provides estimates of the intended program for 1964. The information given for 1963 is preliminary whereas that shown for 1962 and earlier years is final. The probable volume of construction that will be realized in 1964 can be appraised only in the light of past experience and conditions that will exist during the year.

The statistical problems related to making allowance for non-coverage and non-response for individual industries or regions and for the various types of structures present a number of difficulties. Changing plans and problems of respondents in estimating accurately the cost of structures also add to the difficulties. It is particularly important to bear this in mind in any examination of the details shown in this report.

The estimates are based mainly on data collected at the same time and from the same sources as that used in "Private and Public Investment in Canada, Outlook 1964", issued earlier this year. The slight differences in totals between the two reports are due to rounding and minor revisions. While the earlier report provided data on both construction and machinery and equipment expenditures, this report deals with construction only, but in considerably more detail, with separate estimates provided for 70 different types of structures, such as factories, office buildings, retail and wholesale stores, schools, electric power plants, highways and railway tracks and roadbeds.

Also included are statistics on labour content in terms of numbers of persons and value and cost of material used. The various sources of information and methods used to derive these statistics are described in the statistical notes which follow the tabular material.

GENERAL REVIEW

Canada's 1963 construction programme reached \$7.7 billion, a 5.5 per cent increase from the 1962 level of \$7.3 billion. New construction, at \$6,150 million in 1963, was 6.3 per cent above the 1962 amount of \$5,787 million, while repair construction rose by 2.5 per cent to \$1,546 million in 1963 from \$1,509 million in the preceding year.

Building construction showed little change from the 1962 level except for residential construction which increased by \$157 million. Notwithstanding this increase, building construction in 1963 represented a smaller percentage of the total construction programme than in 1962.

Total outlays on engineering construction were significantly higher in 1963 owing to expanded programmes for roads, bridges and subways, increased

expenditures on dams, reservoirs and transmission lines as a result of hydro electric developments in progress during the year, and expansion of gas and oil facilities.

Plans for 1964 show that the total construction programme is expected to reach \$8.3 billion, an increase of 7.7 per cent over 1963. Should this programme be realized, it will be reflected in an increase in residential, industrial and commercial building. On the other hand, outlays for schools will be much below last year's level as a result of the advanced stage of the large federally-supported programme of technical school construction. Engineering will continue to rise with the emphasis on increased road, bridge and subway construction, as well as the continued development of hydro electric power projects.

Year	Total new and repair construction	To change over previous year in	
		Value	Volume
1955	5,308	9.6	7.0
1956	6,454	21.6	15.8
1957	7,023	8.8	5.1
1958	7,092	1.0	1.0
1959	7,077	- 0.2	- 3.5
1960	6,886	- 2.7	- 4.7
1961	6,974	1.3	2.1
1962	7,296	4.6	0.8
1963	7,696	5.5	1.2
1964	8,287	7.7	

VALUE OF CONSTRUCTION WORK PERFORMED
TABLE 1. Current and Constant Dollars, 1955-64¹

	New		Repair		Total		Total construction as percentage of Gross National Product	
	Current	Constant	Current	Constant	Current	Constant	Current	Constant
millions of dollars								
1955	4,187	4,510	1,141	1,259	5,308	5,769	19.6	19.9
1956	5,272	5,444	1,182	1,236	6,454	6,680	21.1	21.2
1957	5,785	5,785	1,238	1,238	7,023	7,023	22.0	22.0
1958	5,831	5,868	1,261	1,230	7,092	7,098	21.6	22.0
1959	5,710	5,556	1,367	1,290	7,077	6,846	20.3	20.5
1960	5,454	5,223	1,432	1,301	6,886	6,524	19.0	19.1
1961	5,518	5,345	1,456	1,313	6,974	6,658	18.7	19.0
1962	5,787	5,390	1,509	1,319	7,296	6,709	18.1	18.1
1963	6,150	5,485	1,548	1,306	7,696	6,791	17.9	17.5
1964	6,663		1,624		8,287			

¹ Actual 1955-62, preliminary 1963, intentions 1964.

TABLE 2. By Contractors and Others, 1960-64¹

	Contract construction			Other construction ²			Total construction		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
millions of dollars									
1960	4,506	677	5,183	948	755	1,703	5,454	1,432	6,886
1961	4,621	726	5,347	897	730	1,627	5,518	1,456	6,974
1962	4,900	810	5,710	887	699	1,586	5,787	1,509	7,296
1963	5,296	862	6,158	854	684	1,538	6,150	1,546	7,696
1964	5,628	923	6,749	837	701	1,538	6,663	1,624	8,287

¹ Actual 1960-62, preliminary 1963, intentions 1964.

² Represents work done by the labour forces of utilities, manufacturing, mining and logging firms, government departments, home owner-builders and other persons or firms not primarily engaged in the construction industry.

TABLE 3. By Principal Types of Construction, 1960-64¹

	1960		1961		1962		1963		1964	
	Value	Percent of total								
\$ Mill										
Total construction.....	6,886	100.0	6,974	100.0	7,296	100.0	7,696	100.0	8,287	100.0
Total building construction.....	4,051	58.8	4,143	59.4	4,543	62.3	4,700	61.1	4,965	59.9
Residential.....	1,913	27.8	1,951	28.0	2,100	28.8	2,257	29.3	2,485	29.9
Industrial.....	452	6.6	411	5.9	492	6.7	507	6.6	565	6.8
Commercial.....	738	10.7	755	10.8	719	9.9	716	9.3	751	9.1
Institutional.....	615	8.9	647	9.3	827	11.3	830	10.8	759	9.2
Other building.....	333	4.8	379	5.4	405	5.6	390	5.1	405	4.9
Total engineering.....	2,835	41.2	2,831	40.6	2,753	37.7	2,996	38.9	3,322	40.1
Marine construction.....	119	1.7	121	1.7	85	1.2	61	0.8	77	0.9
Road highway and aerodrome construction.....	830	12.1	750	10.8	803	11.0	878	11.3	1,025	12.4
Waterworks and sewage systems.....	233	3.4	223	3.2	228	3.1	231	3.0	272	3.3
Dams and irrigation.....	92	1.3	78	1.1	93	1.3	174	2.3	183	2.2
Electric power construction.....	349	5.1	411	5.9	454	6.2	444	5.8	479	5.8
Railway, telephone and telegraph construction.....	452	6.6	384	5.5	373	5.1	397	5.2	396	4.8
Gas and oil facilities.....	454	6.6	520	7.5	416	5.7	495	6.4	489	5.9
Other engineering construction.....	306	4.4	344	4.9	301	4.1	316	4.1	401	4.8

¹ Actual 1960-62, preliminary 1963, intentions 1964.

TABLE 4. By Principal Types of Construction for Industry and Sector

	1962			1963			1964		
	Building	Engineering	Total	Building	Engineering	Total	Building	Engineering	Total
thousands of dollars									
Totals	4,542,935	2,753,104	7,296,039	4,699,746	2,995,616	7,695,362	4,965,080	3,321,437	8,286,517
Agriculture and fishing	229,648	26,013	255,661	232,297	26,245	258,542	245,135	27,672	272,807
Forestry	6,709	38,506	45,215	6,511	36,803	43,314	6,813	38,941	45,754
Mining, quarrying and oil wells	100,522	269,763	370,285	96,472	306,946	403,418	116,818	306,885	423,703
Construction	17,749	304	18,053	18,814	304	19,118	20,152	304	20,456
Manufacturing	371,006	115,928	486,934	382,237	91,233	473,470	422,479	69,219	491,698
Utilities	133,673	1,129,136	1,262,809	129,079	1,292,605	1,421,684	116,684	1,463,116	1,579,800
Trade - Wholesale and retail	149,793	9,224	159,017	165,023	8,148	173,171	176,970	7,723	184,693
Finance, insurance and real estate	261,286	4,631	265,917	231,216	4,442	235,658	247,073	5,812	252,885
Commercial services	80,707	1,340	82,047	100,619	1,603	102,222	106,393	12,353	118,746
Housing	2,100,000	-	2,100,000	2,257,400	-	2,257,400	2,485,000	-	2,485,000
Institutional services	787,587	2,741	790,328	798,925	3,179	802,104	721,268	3,195	724,463
Government departments	304,255	1,155,518	1,459,773	281,153	1,224,108	1,505,261	300,295	1,386,217	1,686,512

TABLE 5. Dollar and Percentage Change by Principal Type of Construction for Industry or Sector

	Change 1962 to 1963						Change 1963 to 1964					
	Building		Engineering		Total		Building		Engineering		Total	
	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%
Totals	157	3.5	243	8.8	399	5.5	265	5.6	326	10.9	591	7.7
Agriculture and fishing	3	1.2	-	0.9	3	1.1	13	5.5	1	5.4	14	5.5
Forestry	-	-	3.0	-	2	-	4.4	-	2	-	4.2	-
Mining, quarrying and oil wells	-	4	-	4.0	37	13.8	33	8.9	20	21.1	-	-
Construction	1	6.0	-	-	1	5.9	1	7.1	-	-	-	1
Manufacturing	11	3.0	-	25	-	21.3	-	13	-	2.8	40	10.5
Utilities	-	5	-	3.4	163	14.5	159	12.6	-	12	-	9.6
Trade - Wholesale and retail	15	10.2	-	1	-	11.7	14	8.9	12	7.2	-	-
Finance, insurance and real estate	-	30	-	11.5	-	-	30	-	11.4	16	6.9	1
Commercial services	20	24.7	-	-	19.6	20	24.6	6	5.7	11	-	17
Housing	157	7.5	-	-	157	7.5	228	10.1	-	-	228	10.1
Institutional services	11	1.4	-	-	16.0	12	1.5	-	78	-	0.5	-
Government departments	-	23	-	7.6	69	5.9	45	3.1	19	6.8	162	13.2
											181	12.0

¹ Percentage change greater than 500%.

TABLE 6. By Type of Structure, Total, 1960-64¹

Type of structure	1960	1961	1962	1963	1964
thousands of dollars					
Total value of construction.....	6,886,255	6,974,379	7,296,039	7,695,362	8,286,517
Total building construction.....	4,051,104	4,143,170	4,542,935	4,699,746	4,965,080
Residential.....	1,913,100	1,951,000	2,100,000	2,257,400	2,485,000
Industrial.....	451,588	410,868	491,595	506,704	565,241
2. Factories, plants, workshops, food canneries.....	365,607	318,894	372,828	385,747	425,018
3. Mine and mine mill buildings.....	45,891	57,576	83,183	83,508	103,135
4. Railway stations, offices, roadway buildings.....	23,114	22,904	23,834	24,561	22,402
5. Railway shops, engine houses, water and fuel stations.....	16,956	11,494	11,750	12,888	14,686
Commercial.....	738,127	754,659	719,500	715,834	750,855
6. Warehouses, storehouses, refrigerated storage, etc.....	82,131	65,241	62,539	69,488	67,582
7. Grain elevators.....	20,901	28,101	29,295	24,447	15,796
8. Hotels, clubs, restaurants, cafeterias, tourist cabins.....	48,449	46,568	47,480	59,713	75,695
9. Office buildings.....	309,942	351,877	323,933	292,520	318,578
10. Stores, retail and wholesale.....	187,987	164,757	164,164	171,306	179,397
11. Garages and service stations.....	55,223	44,069	36,098	39,180	50,308
12. Theatres, arenas, amusement and recreational buildings.....	31,868	51,416	53,268	55,462	41,400
13. Laundries and dry cleaning establishments.....	1,626	2,630	2,723	3,718	2,099
Institutional.....	615,188	647,056	827,313	830,023	759,440
14. Schools and other educational buildings.....	346,599	360,968	537,180	574,597	487,979
15. Churches and other religious buildings.....	70,037	68,705	61,210	52,110	47,577
16. Hospitals, sanatoria, clinics, first-aid stations, etc.....	153,707	179,382	189,903	171,527	190,345
17. Other institutional buildings.....	44,845	38,001	39,020	31,789	33,539
Other building construction.....	333,121	379,587	404,527	389,785	404,544
18. Farm buildings (excluding dwellings).....	168,215	211,739	232,922	236,227	248,453
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges.....	60,749	69,484	64,505	62,024	55,763
20. Aeroplane hangars.....	17,436	8,633	6,949	5,241	5,715
21. Passenger terminals, bus, boat or air.....	26,181	22,829	30,245	19,515	16,676
22. Armouries, barracks, drill halls, etc.....	20,846	24,298	27,196	26,632	26,872
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps.....	21,280	16,232	19,286	13,885	14,416
24. Other building construction.....	18,414	26,392	23,422	26,261	36,649
Total engineering construction.....	2,835,151	2,831,209	2,753,104	2,995,616	3,321,437
Marine construction.....	119,032	120,843	84,896	60,846	77,334
25. Docks, wharves, piers, breakwaters.....	71,540	77,080	57,831	40,030	42,952
26. Retaining walls, embankments, ripraping.....	4,263	2,292	2,702	7,659	11,814
27. Canals and waterways.....	6,711	10,470	9,511	3,082	12,175
28. Dredging and pile driving.....	31,590	23,928	11,192	6,794	7,342
29. Dyke construction.....	294	1,081	716	571	637
30. Logging booms.....	1,246	965	960	741	685
31. Other marine construction.....	3,388	5,027	2,084	1,969	1,929

¹ Actual 1960-62, preliminary 1963, intentions 1964.

TABLE 6. By Type of Structure, Total, 1960-64¹ — Concluded

Type of structure	1960	1961	1962	1963	1964
thousands of dollars					
Road, highway and aerodrome construction	830,359	750,170	802,711	878,159	1,024,912
32. Hard surfaced or paved streets, highways, parking lots, etc.	457,143	461,738	512,782	615,785	762,303
33. Gravel or stone streets, highways, roads, parking lots, etc.	241,832	170,396	165,289	159,392	159,845
34. Dirt, clay or other streets, roads, parking lots, etc.	50,608	39,227	43,785	27,203	27,688
35. Grading, scraping, oiling, filling	26,345	27,535	30,336	30,217	29,065
36. Sidewalks, paths	24,075	22,275	26,858	25,648	25,659
37. Aerodromes, landing fields, runways, tarmac	30,356	28,999	23,661	19,914	20,352
Waterworks and sewage systems	232,783	223,152	227,615	231,147	271,512
38. Tile drains, drainage ditches, storm sewers	21,122	7,082	5,434	10,744	11,961
39. Water mains, hydrants and services	78,277	77,034	87,127	69,946	95,472
40. Sewage systems and connections	113,367	122,685	122,430	134,655	137,681
41. Pumping stations, water	17,254	14,116	8,689	10,666	21,247
42. Water storage tanks	2,763	2,235	3,935	5,136	5,151
Dams and irrigation	91,743	78,351	93,317	173,688	183,321
43. Dams and reservoirs	76,295	60,018	72,547	151,159	158,508
44. Irrigation and land reclamation projects	15,448	18,333	20,770	22,529	24,813
Electric power construction	348,877	411,381	454,338	443,880	479,032
45. Electric power generating plants, including water conveying and controlling structures	128,977	197,121	217,572	143,845	127,457
48. Electric transformer stations	43,556	33,237	32,119	56,221	62,429
47. Power transmission and distribution lines, trolley wires	159,678	159,654	185,563	225,804	270,214
48. Street lighting	16,666	21,169	19,084	18,010	18,932
Railway, telephone and telegraph	451,561	384,023	372,889	397,229	395,510
49. Railway tracks and roadbed	269,070	231,571	211,252	221,354	217,824
50. Signals and interlockers	13,696	16,104	13,943	16,166	16,579
51. Telegraph and telephone lines, underground and marine cables	168,795	136,348	147,694	159,709	161,107
Gas and oil facilities	454,372	519,526	416,096	495,054	489,076
52. Gas mains and services	60,764	56,542	67,880	63,701	55,185
53. Pumping stations, oil	3,992	3,228	3,054	5,060	2,785
54. Pumping stations, gas	27,370	13,773	25,423	27,601	26,103
55. Oil storage tanks	22,686	20,774	16,395	13,930	11,079
56. Gas storage tanks	8,869	909	967	2,687	969
57. Oil pipe lines	16,517	42,957	16,920	21,636	14,555
58. Gas pipe lines	52,807	95,260	23,778	55,819	91,111
59. Oil wells	141,163	121,147	138,067	174,373	176,042
60. Gas wells	34,687	46,422	25,257	27,427	30,252
61. Oil refinery — Processing units	64,383	48,229	77,406	63,106	45,423
62. Natural gas cleaning plants	21,134	70,285	20,939	39,714	35,572
Other engineering construction	306,424	343,763	301,142	315,613	400,740
63. Bridges, trestles, culverts, overpasses, viaducts	196,396	207,566	166,886	179,848	202,241
64. Tunnels and subways	21,740	19,261	17,580	30,551	75,827
65. Incinerators	3,491	403	594	450	414
66. Park systems, landscaping, sodding, etc.	8,786	10,377	11,450	10,785	12,262
67. Swimming pools, tennis courts, outdoor recreation facilities	3,632	6,262	7,353	9,645	10,540
68. Mine shafts and other below surface workings	29,397	31,821	34,497	37,383	41,125
69. Fences, snowsheds, signs, guard rails	19,172	24,747	24,791	19,421	20,044
70. Other engineering construction	23,810	43,326	37,991	27,530	38,287

¹ Actual 1960-62, preliminary 1963, intentions 1964.

LABOUR CONTENT AND COST OF MATERIALS USED, 1960-64¹

TABLE 7. By Provinces

Provinces	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
Canada:				
1960	541,191	2,336,891	3,251,622	6,886,255
1961	530,854	2,349,229	3,273,513	6,974,379
1962	528,921	2,475,670	3,507,738	7,296,039
1963	542,186	2,593,256	3,688,978	7,695,362
1964	578,197	2,764,809	3,973,183	8,286,517
Newfoundland:				
1960	11,817	47,882	64,053	138,508
1961	13,462	55,022	77,575	169,491
1962	14,462	66,792	88,646	199,786
1963	13,603	63,607	84,606	190,426
1964	13,583	63,134	84,264	190,079
Prince Edward Island:				
1960	2,734	7,930	15,459	30,223
1961	3,160	9,844	15,649	32,254
1962	3,047	11,414	19,166	38,741
1963	2,953	11,257	18,875	37,735
1964	2,945	11,221	18,722	37,306
Nova Scotia:				
1960	22,937	75,163	102,521	220,062
1961	20,841	73,537	94,800	204,845
1962	17,283	67,617	98,412	205,146
1963	17,817	71,508	102,879	217,188
1964	17,978	72,408	102,891	220,284
New Brunswick:				
1960	16,660	54,925	72,880	156,308
1961	15,003	51,688	80,039	157,243
1962	13,972	52,142	77,604	155,321
1963	13,798	52,787	77,112	157,795
1964	15,801	60,331	88,017	183,359
Quebec:				
1960	129,350	543,343	804,971	1,654,161
1961	135,116	566,190	860,458	1,732,739
1962	138,031	632,002	948,708	1,890,669
1963	138,803	848,036	980,696	1,953,502
1964	180,128	749,238	1,158,960	2,311,805
Ontario:				
1960	185,894	840,649	1,103,616	2,332,900
1961	172,666	801,021	1,077,333	2,294,781
1962	176,792	853,319	1,176,478	2,448,295
1963	181,880	895,492	1,243,519	2,584,968
1964	185,408	910,488	1,272,093	2,643,570
Manitoba:				
1960	31,101	131,066	196,577	396,598
1961	29,020	128,903	177,085	369,662
1962	27,098	124,109	174,007	361,112
1963	30,725	144,877	204,727	430,047
1964	30,489	142,941	204,155	423,639

¹ Actual 1960-62, preliminary 1963, intentions 1964.

TABLE 7. By Provinces — Concluded

Provinces	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
Saskatchewan:				
1960	29,235	116,442	187,463	378,935
1961	28,528	127,292	175,534	383,021
1962	30,080	140,254	200,247	416,984
1963	30,950	147,321	211,032	440,190
1964	31,937	151,894	218,306	454,704
Alberta:				
1960	57,070	244,218	370,242	815,793
1961	60,453	270,128	386,068	876,719
1962	55,689	263,049	373,472	820,209
1963	55,871	272,229	381,229	853,017
1964	55,757	272,168	382,301	852,892
British Columbia:				
1960	54,593	275,273	333,840	762,767
1961	52,605	265,604	328,972	753,624
1962	52,487	264,772	350,998	759,776
1963	55,786	286,142	384,503	830,484
1964	84,171	330,986	443,474	988,879

TABLE 8. By Contractors and Others

Type	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
Total:				
1960	541,191	2,336,891	3,251,622	6,886,255
1961	530,854	2,349,229	3,273,513	6,974,379
1962	528,921	2,475,670	3,507,738	7,296,039
1963	542,186	2,583,256	3,688,978	7,695,362
1964	578,197	2,764,809	3,973,183	8,286,517
Contractors:				
1960	6757	359,711	1,611,273	2,503,376
1961	7127	358,112	1,655,512	2,552,390
1962	7364	381,526	1,803,234	2,809,407
1963	7407	401,479	1,939,273	3,010,085
1964	7522	437,707	2,111,646	3,292,305
Utilities:				
1960	66,235	311,988	379,532	749,932
1961	65,149	319,510	365,810	748,290
1962	64,981	327,132	377,500	763,298
1963	62,966	322,798	371,943	752,318
1964	62,702	321,783	371,416	750,645
Governments:				
1960	74,509	244,936	171,041	528,031
1961	71,833	220,089	173,029	497,272
1962	53,434	216,760	161,775	492,320
1963	50,325	208,007	152,582	485,321
1964	49,765	206,155	151,454	461,246
Others:				
1960	40,736	168,692	197,673	425,520
1961	35,760	154,118	182,284	381,260
1962	28,980	128,544	159,056	330,755
1963	27,416	123,178	154,368	319,601
1964	28,023	125,225	158,006	326,086

VALUE OF CONSTRUCTION WORK PERFORMED — CANADA 1962-64¹

TABLE 9. By Type of Structure, New and Repair

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	5,787,039	1,509,000	7,296,039	6,149,684	1,549,678	7,695,362	6,662,733	1,623,764	8,286,517
Total building construction	3,616,087	926,848	4,542,935	3,750,900	948,846	4,699,746	3,972,734	992,346	4,965,080
Residential	1,587,000	513,000	2,100,000	1,713,400	544,000	2,257,400	1,908,000	577,000	2,485,000
Industrial	363,994	127,801	491,595	378,400	128,304	506,704	432,756	132,485	565,241
2. Factories, plants, workshops, food canneries	271,622	101,206	372,828	288,045	97,702	385,747	324,208	100,810	425,018
3. Mine and mine mill buildings	73,931	9,252	83,183	71,137	12,371	83,508	92,099	11,036	103,135
4. Railway stations, offices, roadway buildings	11,995	11,839	23,834	12,764	11,797	24,561	9,021	13,381	22,402
5. Railway shops, engine houses, water and fuel stations	6,446	5,304	11,750	6,454	6,434	12,888	7,428	7,258	14,686
Commercial	603,041	116,459	719,500	604,188	111,646	715,834	638,314	112,541	750,855
6. Warehouses, storerooms, refrigerated storage, etc.	47,944	14,595	62,539	55,381	14,107	69,488	53,534	14,048	67,582
7. Grain elevators	23,996	5,299	29,295	18,134	6,313	24,447	9,665	6,131	15,796
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	36,250	11,230	47,480	49,383	10,330	59,713	65,690	10,005	75,695
9. Office buildings	281,855	42,078	323,933	252,147	40,373	292,520	277,287	41,291	318,578
10. Stores, retail and wholesale	138,487	25,677	164,164	148,467	22,839	171,306	155,455	23,942	179,397
11. Garages and service stations	26,076	10,022	36,098	28,975	10,205	39,180	39,865	10,443	50,308
12. Theatres, arenas, amusement and recreational buildings	46,878	6,390	53,268	49,406	6,056	55,462	35,679	5,721	41,400
13. Laundries and dry cleaning establishments	1,555	1,168	2,723	2,295	1,423	3,718	1,139	960	2,099
Institutional	733,374	73,939	827,313	764,424	65,599	830,023	691,407	68,033	759,440
14. Schools and other educational buildings	500,831	36,349	537,180	539,764	34,833	574,597	452,761	35,218	487,979
15. Churches and other religious buildings	53,860	7,350	61,210	45,360	6,750	52,110	41,253	6,324	47,577
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	169,402	20,501	189,903	150,791	20,736	171,527	167,372	22,973	190,345
17. Other institutional buildings	29,281	9,739	39,020	28,509	3,280	31,789	30,021	3,518	33,539
Other building construction	308,678	95,849	404,527	290,488	99,297	389,785	302,257	102,287	404,544
18. Farm buildings (excluding dwellings)	168,808	64,114	232,922	171,229	64,998	236,227	180,329	68,124	248,453
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	61,670	2,835	64,505	58,641	3,383	62,024	52,559	3,204	55,763
20. Aeroplane hangars	4,292	2,657	6,949	2,253	2,988	5,241	2,835	2,880	5,715
21. Passenger terminals, bus, boat or air	28,858	1,387	30,245	18,307	1,208	19,515	15,527	1,149	16,676
22. Armouries, barracks, drill halls, etc.	10,690	16,506	27,196	8,994	17,638	26,632	9,085	17,787	26,872
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	15,240	4,048	19,288	10,163	3,722	13,885	11,067	3,349	14,416
24. Other building construction	19,120	4,302	23,422	20,901	5,360	26,261	30,855	5,794	36,649
Total engineering construction	2,170,952	582,152	2,753,104	2,398,784	596,832	2,995,616	2,689,999	631,438	3,321,437
Marine construction	69,019	15,977	84,996	46,153	14,693	60,846	62,051	15,283	77,334
25. Docks, wharves, piers, breakwaters	50,205	7,626	57,831	31,822	8,208	40,030	34,611	8,341	42,952
26. Retaining walls, embankments, ripraping	1,847	855	2,702	7,243	416	7,659	11,410	204	11,614
27. Canals and waterways	7,899	1,612	9,511	2,145	937	3,082	10,325	1,850	12,175
28. Dredging and pile driving	6,752	4,440	11,192	2,560	4,234	6,794	3,442	3,900	7,342
29. Dyke construction	449	287	716	389	182	571	381	256	637
30. Logging booms	396	564	960	326	415	741	253	432	685
31. Other marine construction	1,471	613	2,084	1,668	301	1,969	1,629	300	1,929

¹ Actual 1962, preliminary 1963, intentions 1964.

TABLE 9. By Type of Structure, New and Repair — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	603,326	199,385	802,711	663,069	215,090	878,159	805,577	219,335	1,024,912
32. Hard surfaced or paved streets, highways, parking lots, etc....	406,724	106,058	512,782	477,470	138,315	615,785	618,158	144,145	762,303
33. Gravel or stone streets, highways, roads, parking lots, etc.	110,936	54,353	165,289	101,876	57,516	159,392	102,961	56,884	159,845
34. Dirt, clay or other streets, roads, parking lots, etc.	24,900	18,885	43,785	18,019	9,184	27,203	19,050	8,638	27,688
35. Grading, scraping, oiling, filling	18,412	11,924	30,336	26,470	3,747	30,217	25,872	3,193	29,065
36. Sidewalks, paths	19,792	7,066	26,858	20,461	5,187	25,648	20,341	5,318	25,659
37. Aerodromes, landing fields, runways, tarmac	22,562	1,099	23,661	18,773	1,141	19,914	19,195	1,157	20,352
Waterworks and sewage systems	186,817	40,798	227,615	194,924	36,223	231,147	230,828	40,684	271,512
38. Tile drains, drainage ditches, storm sewers	3,094	2,340	5,434	9,261	1,483	10,744	10,527	1,434	11,961
39. Water mains, hydrants and services	66,490	20,637	87,127	50,609	19,337	69,948	74,230	21,242	95,472
40. Sewage systems and connections	109,996	12,434	122,430	121,225	13,430	134,655	124,024	13,657	137,681
41. Pumping stations, water	5,969	2,720	8,689	8,947	1,719	10,666	17,136	4,111	21,247
42. Water storage tanks	1,268	2,667	3,935	4,882	254	5,136	4,911	240	5,151
Dams and irrigation	86,882	6,635	93,317	166,765	6,923	173,688	176,353	6,968	183,321
43. Dams and reservoirs	70,027	2,520	72,547	148,461	2,698	151,159	155,994	2,514	158,508
44. Irrigation and land reclamation projects	16,655	4,115	20,770	18,304	4,225	22,529	20,359	4,454	24,813
Electric power construction	395,550	58,788	454,338	380,449	63,431	443,880	410,099	68,933	479,032
45. Electric power generating plants, including water conveying and controlling structures	201,971	15,601	217,572	130,695	13,150	143,845	113,435	14,022	127,457
46. Electric transformer stations	25,657	6,462	32,119	48,647	7,574	56,221	54,260	8,169	62,429
47. Power transmission and distribution lines, trolley wires	154,900	30,663	185,563	189,005	36,799	225,804	229,513	40,701	270,214
48. Street lighting	13,022	6,062	19,084	12,102	5,908	18,010	12,891	6,041	18,932
Railway, telephone and telegraph	222,866	150,023	372,889	246,128	151,101	397,229	226,998	168,512	395,510
49. Railway tracks and roadbed	107,295	103,957	211,252	115,307	106,047	221,354	98,398	119,426	217,824
50. Signals and interlockers	6,535	7,408	13,943	8,914	7,252	16,166	8,266	8,313	16,579
51. Telegraph and telephone lines, underground and marine cables	109,036	38,658	147,694	121,907	37,802	159,709	120,334	40,773	161,107
Gas and oil facilities	362,827	53,269	416,096	439,404	55,650	495,054	434,524	54,552	489,076
52. Gas mains and services	61,856	6,024	67,880	59,048	4,653	63,701	50,365	4,820	55,185
53. Pumping stations, oil	1,971	1,083	3,054	3,668	1,392	5,060	1,445	1,340	2,785
54. Pumping stations, gas	25,163	260	25,423	27,222	379	27,601	25,711	392	26,103
55. Oil storage tanks	13,279	3,116	16,395	11,241	2,689	13,930	8,377	2,702	11,079
56. Gas storage tanks	929	38	967	2,641	46	2,687	926	43	969
57. Oil pipe lines	14,348	2,582	16,930	19,580	2,056	21,636	12,537	2,018	14,555
58. Gas pipe lines	22,750	1,028	23,778	54,851	968	55,819	90,105	1,006	91,111
59. Oil wells	129,340	8,727	138,067	163,476	10,897	174,373	165,235	10,807	176,042
60. Gas wells	24,649	608	25,257	26,710	717	27,427	29,462	790	30,252
61. Oil refinery — Processing units	50,530	26,876	77,406	33,891	29,215	63,106	17,196	28,227	45,423
62. Natural gas cleaning plants	18,012	2,927	20,939	37,076	2,638	39,714	33,165	2,407	35,572
Other engineering construction	243,865	57,277	301,142	261,892	53,721	315,613	343,569	57,171	400,740
63. Bridges, trestles, culverts, overpasses, viaducts	141,082	25,804	166,886	150,277	29,571	179,848	170,387	31,854	292,241
64. Tunnels and subways	17,426	154	17,580	29,846	705	30,551	74,332	1,495	75,827
65. Incinerators	158	436	594	143	307	450	105	309	414
66. Park systems, landscaping, sodding, etc.	6,717	4,733	11,450	6,754	4,031	10,785	8,159	4,103	12,262
67. Swimming pools, tennis courts, outdoor recreation facilities ..	5,339	2,014	7,353	7,370	2,275	9,645	8,108	2,432	10,540
68. Mine shafts and other below surface workings	31,736	2,761	34,497	35,276	2,107	37,383	38,481	2,644	41,125
69. Fences, snowsheds, signs, guard rails	15,392	9,399	24,791	18,021	6,400	19,421	13,079	6,965	20,044
70. Other engineering construction	26,015	11,976	37,991	19,205	8,325	27,530	30,918	7,369	38,287

VALUE OF CONSTRUCTION WORK PERFORMED, BY TYPE OF STRUCTURE - INDUSTRY OR SECTOR, 1962-64¹Table 10. Primary Industries²

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	567,286	121,928	689,214	595,789	128,603	724,392	630,769	131,951	762,720
Total building construction	272,967	81,661	354,628	267,997	86,097	354,094	299,705	89,213	388,918
Residential	-	-	-	-	-	-	-	-	-
Industrial	84,225	11,592	95,817	78,503	14,517	93,020	100,302	13,964	114,206
2. Factories, plants, workshops, food canneries	8,153	2,360	10,513	7,009	1,962	8,971	8,139	2,809	10,948
3. Mine and mine mill buildings	73,297	9,222	82,519	70,772	12,370	83,142	92,099	11,035	103,134
4. Railway stations, offices, roadway buildings	158	8	186	297	185	482	-	1	1
5. Railway shops, engine houses, water and fuel stations	2,617	2	2,619	425	-	425	64	59	123
Commercial	15,395	3,050	18,445	15,189	3,181	18,370	15,680	3,613	19,293
6. Warehouses, storehouses, refrigerated storage, etc.	4,248	1,005	5,253	3,843	1,059	4,902	3,556	1,307	4,863
7. Grain elevators	-	-	-	-	-	-	-	-	-
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	375	71	446	55	66	121	10	40	50
9. Office buildings	9,319	1,756	11,075	10,662	1,828	12,490	9,699	1,929	11,628
10. Stores, retail and wholesale	13	3	16	33	8	41	20	1	21
11. Garages and service stations	329	155	484	297	188	483	1,254	309	1,563
12. Theatres, arenas, amusement and recreational buildings	1,111	57	1,168	230	33	263	1,141	26	1,167
13. Laundries and dry cleaning establishments	-	3	3	69	1	70	-	1	1
Institutional	2,151	113	2,264	1,309	466	1,795	2,195	960	3,155
14. Schools and other educational buildings	1,389	41	1,430	1,152	395	1,547	2,093	916	3,009
15. Churches and other religious buildings	26	13	39	8	16	24	-	-	-
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	736	59	795	149	70	219	102	36	138
17. Other institutional buildings	-	-	-	-	5	5	-	8	8
Other building construction	171,196	66,906	238,102	172,996	67,913	240,909	161,526	70,736	252,264
18. Farm buildings (excluding dwellings)	165,591	63,499	229,090	167,352	64,448	231,800	177,026	67,611	244,637
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	21	20	41	24	23	47	29	18	47
20. Aeroplane hangars	382	2	364	52	-	52	-	-	-
21. Passenger terminals, bus, boat or air	-	-	-	-	-	-	-	-	-
22. Armouries, barracks, drill halls, etc.	-	-	-	-	-	-	-	-	-
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	5,150	3,358	8,508	5,525	3,200	6,725	4,454	2,903	7,357
24. Other building construction	52	27	79	43	242	285	19	204	223
Total engineering construction	294,319	40,267	334,586	327,792	42,506	370,298	331,064	42,738	373,802
Marine construction	9,931	1,463	11,394	3,655	1,229	4,884	2,139	1,025	3,184
25. Docks, wharves, piers, breakwaters	9,108	697	9,805	3,217	570	3,787	1,723	431	2,154
26. Retaining walls, embankments, ripraping	125	1	126	1	3	4	-	4	4
27. Canals and waterways	164	115	279	98	109	207	130	106	238
28. Dredging and pile driving	170	100	270	8	99	107	-	28	28
29. Dyke construction	-	9	9	-	-	-	-	-	-
30. Logging booms	308	424	732	246	318	564	231	312	543
31. Other marine construction	56	117	173	85	130	215	55	144	199

See footnotes at end of table.

TABLE 10. Primary Industries² — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	29,849	12,601	42,450	25,577	12,848	38,425	27,571	12,559	40,130
32. Hard surfaced or paved streets, highways, parking lots, etc.	761	397	1,158	1,349	453	1,802	1,821	1,032	2,853
33. Gravel or stone streets, highways, roads, parking lots, etc.	8,458	3,504	11,962	7,803	3,815	11,618	8,287	3,442	11,729
34. Dirt, clay or other streets, roads, parking lots, etc.	16,839	8,575	25,414	15,233	8,326	23,559	16,650	7,809	24,459
35. Grading, scraping, oiling, filling	3,711	103	3,814	894	124	1,018	526	117	643
36. Sidewalks, paths	58	—	58	298	105	403	282	136	418
37. Aerodromes, landing fields, runways, tarmac	22	22	44	—	25	25	5	23	28
Waterworks and sewage systems	6,413	883	7,296	5,115	863	5,978	2,721	833	3,554
38. Tile drains, drainage ditches, storm sewers	200	8	208	1,085	7	1,092	224	47	271
39. Water mains, hydrants and services	4,823	605	5,428	1,588	480	2,068	1,574	413	1,987
40. Sewage systems and connections	928	106	1,034	600	262	862	772	227	999
41. Pumping stations, water	315	156	471	1,008	105	1,113	114	138	252
42. Water storage tanks	147	8	155	834	9	843	37	8	45
Dams and irrigation	10,643	3,769	14,412	10,493	3,817	14,310	10,990	4,006	14,996
43. Dams and reservoirs	1,443	241	1,684	1,195	236	1,431	1,157	247	1,404
44. Irrigation and land reclamation projects	9,200	3,528	12,728	9,298	3,581	12,879	9,833	3,759	13,592
Electric power construction	3,585	553	4,138	2,162	711	2,873	2,855	688	3,543
45. Electric power generating plants, including water conveying and controlling structures	576	115	691	6	192	198	142	109	251
46. Electric transformer stations	1,029	55	1,084	732	87	819	35	75	110
47. Power transmission and distribution lines, trolley wires	1,920	338	2,258	1,365	394	1,759	2,572	417	2,989
48. Street lighting	60	45	105	59	38	97	106	87	193
Railway, telephone and telegraph	5,361	1,212	6,573	2,311	1,381	3,692	1,408	871	2,279
49. Railway tracks and roadbed	5,307	1,072	6,379	2,177	1,222	3,399	1,299	740	2,039
50. Signals and interlockers	7	5	12	5	1	6	—	1	1
51. Telegraph and telephone lines, underground and marine cables	47	135	182	129	158	287	109	130	239
Gas and oil facilities	180,884	12,818	193,702	231,187	14,568	245,755	231,796	14,355	246,151
52. Gas mains and services	4,450	35	4,485	711	39	750	348	.41	389
53. Pumping stations, oil	7	—	7	70	21	91	35	16	51
54. Pumping stations, gas	3	1	4	15	1	16	—	4	4
55. Oil storage tanks	3,222	357	3,579	1,161	11	1,172	1,258	88	1,346
56. Gas storage tanks	42	14	56	10	—	10	20	—	20
57. Oil pipe lines	743	11	754	144	3	147	1,020	1	1,021
58. Gas pipe lines	1,821	193	2,014	1,836	267	2,103	1,404	230	1,634
59. Oil wells	129,340	8,727	138,067	163,476	10,897	174,373	165,235	10,807	176,042
60. Gas wells	23,570	575	24,145	26,640	706	27,345	29,334	778	30,112
61. Oil refinery — Processing units	—	—	—	113	3	116	55	3	58
62. Natural gas cleaning plants	17,686	2,905	20,591	37,011	2,620	39,631	33,087	2,387	35,474
Other engineering construction	47,653	6,968	54,621	47,292	7,089	54,381	51,584	8,401	59,985
63. Bridges, trestles, culverts, overpasses, viaducts	358	180	538	396	111	507	465	101	566
64. Tunnels and subways	—	—	—	1,130	583	1,713	1,522	1,408	2,930
65. Incinerators	1	—	1	—	5	5	—	1	1
66. Park systems, landscaping, sodding, etc.	57	27	84	86	94	180	117	108	225
67. Swimming pools, tennis courts, outdoor recreation facilities	1	64	65	6	54	60	4	31	35
68. Mine shafts and other below surface workings	31,689	2,761	34,450	35,240	2,107	37,347	38,334	2,544	40,978
69. Fences, snowsheds, signs, guard rails	9,274	3,549	12,823	9,339	3,601	12,940	9,862	3,778	13,640
70. Other engineering construction	6,273	387	6,660	1,095	534	1,629	1,280	330	1,610

¹ Actual 1962, preliminary 1963, intentions 1964.² Primary industries include agriculture, fishing, mining, quarrying, oil wells and the construction industry.

TABLE 11. Manufacturing

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	353,832	133,102	486,934	341,389	132,081	473,470	359,338	132,360	491,698
Total building construction	274,240	96,786	371,006	287,140	95,097	382,237	326,074	96,405	422,479
Residential	—	—	—	—	—	—	—	—	—
Industrial	243,228	92,314	335,542	257,816	90,781	348,597	297,921	92,207	390,128
2. Factories, plants, workshops, food canneries	242,423	89,956	332,379	256,131	87,918	344,049	296,116	89,511	385,627
3. Mine and mine mill buildings	30	30	60	11	1	12	—	1	1
4. Railway stations, offices, roadway buildings	—	—	—	—	—	—	—	—	—
5. Railway shops, engine houses, water and fuel stations	775	2,328	3,103	1,674	2,862	4,536	1,805	2,695	4,500
Commercial	29,960	3,881	33,841	26,131	3,850	29,981	27,174	3,834	31,008
6. Warehouses, storehouses, refrigerated storage, etc.	15,159	1,460	16,619	11,408	1,691	13,099	13,925	1,676	15,601
7. Grain elevators	362	63	425	2,447	39	2,486	13	38	51
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	169	126	295	262	54	316	75	107	182
9. Office buildings	14,100	2,094	16,194	11,575	1,996	13,571	12,802	1,940	14,742
10. Stores, retail and wholesale	90	93	183	189	36	225	160	44	204
11. Garages and service stations	55	39	94	30	26	56	164	26	190
12. Theatres, arenas, amusement and recreational buildings	25	6	31	201	8	209	35	3	38
13. Laundries and dry cleaning establishments	—	—	—	19	—	19	—	—	—
Institutional	234	17	251	213	44	257	118	23	141
14. Schools and other educational buildings	115	—	115	—	—	—	80	—	80
15. Churches and other religious buildings	—	—	—	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	119	17	136	213	44	257	38	23	61
17. Other institutional buildings	—	—	—	—	—	—	—	—	—
Other building construction	818	554	1,372	2,980	422	3,402	861	341	1,202
18. Farm buildings (excluding dwellings)	193	111	304	534	87	621	175	52	227
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	—	—	—	12	1	13	—	1	1
20. Aeroplane hangars	8	10	18	46	7	53	31	9	40
21. Passenger terminals, bus, boat or air	—	—	—	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc.	—	—	—	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	605	433	1,038	388	306	694	255	272	527
24. Other building construction	12	—	12	2,000	21	2,021	400	7	407
Total engineering construction	79,592	36,336	115,928	54,249	36,984	91,233	33,264	35,955	69,219
Marine construction	3,803	1,355	5,158	2,217	1,534	3,751	1,741	1,409	3,150
25. Docks, wharves, piers, breakwaters	3,383	807	4,190	1,758	953	2,711	1,497	969	2,466
26. Retaining walls, embankments, ripraping	20	111	131	20	260	280	135	2	137
27. Canals and waterways	—	5	5	—	4	4	—	5	5
28. Dredging and pile driving	217	297	514	72	200	272	17	236	253
29. Dyke construction	2	1	3	—	—	—	—	73	73
30. Logging booms	77	121	198	70	87	157	17	109	126
31. Other marine construction	104	13	117	297	30	327	75	15	90

TABLE 11. Manufacturing — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	3,979	1,611	5,590	2,927	1,331	4,258	2,593	1,153	3,748
32. Hard surfaced or paved streets, highways, parking lots, etc.	2,201	734	2,935	2,065	690	2,755	1,149	649	1,798
33. Gravel or stone streets, highways, roads, parking lots, etc.	418	420	838	386	272	658	937	235	1,172
34. Dirt, clay or other streets, roads, parking lots, etc.	488	375	863	247	259	506	208	226	434
35. Grading, scraping, oiling, filling	783	63	846	224	96	320	254	27	281
36. Sidewalks, paths	47	17	64	5	14	19	29	16	45
37. Aerodromes, landing fields, runways, tarmac	42	2	44	—	—	—	18	—	18
Waterworks and sewage systems	6,022	1,153	7,175	2,986	1,034	4,020	3,830	1,064	4,894
38. Tile drains, drainage ditches, storm sewers	440	52	492	497	85	582	394	38	432
39. Water mains, hydrants and services	3,816	529	4,145	793	482	1,275	848	467	1,315
40. Sewage systems and connections	996	192	1,188	732	188	920	1,415	233	1,648
41. Pumping stations, water	829	308	1,137	923	202	1,125	1,149	231	1,380
42. Water storage tanks	141	72	213	41	77	118	24	95	119
Dams and irrigation	617	230	847	225	210	435	191	72	263
43. Dams and reservoirs	537	230	767	225	210	435	191	72	263
44. Irrigation and land reclamation projects	80	—	80	—	—	—	—	—	—
Electric power construction	6,624	1,130	7,754	5,370	1,053	6,423	4,161	1,255	5,416
45. Electric power generating plants, including water conveying and controlling structures	1,518	452	1,970	1,469	483	1,952	815	587	1,402
46. Electric transformer stations	1,432	459	1,891	2,234	235	2,469	2,359	305	2,664
47. Power transmission and distribution lines, trolley wires	3,576	203	3,779	1,630	325	1,955	940	354	1,294
48. Street lighting	98	16	114	37	10	47	47	9	56
Railway, telephone and telegraph	974	718	1,692	525	575	1,100	911	601	1,512
49. Railway tracks and roadbed	970	670	1,640	500	545	1,045	911	562	1,473
50. Signals and interlockers	—	—	—	10	—	10	—	7	7
51. Telegraph and telephone lines, underground and marine cables	4	48	52	15	30	45	—	32	32
Gas and oil facilities	56,564	28,203	84,767	39,151	30,320	69,471	19,293	29,497	48,790
52. Gas mains and services	23	14	37	52	15	67	—	11	11
53. Pumping stations, oil	1	18	19	15	—	15	—	2	2
54. Pumping stations, gas	—	1	1	—	—	—	—	—	—
55. Oil storage tanks	4,882	1,077	5,959	3,779	949	4,728	1,847	1,102	2,949
56. Gas storage tanks	4	10	14	94	8	102	163	6	169
57. Oil pipe lines	538	163	701	1,341	109	1,450	42	128	170
58. Gas pipe lines	480	44	524	207	27	234	100	24	124
59. Oil wells	—	—	—	—	—	—	—	—	—
60. Gas wells	106	—	106	—	—	—	—	—	—
61. Oil refinery — Processing units	50,530	26,876	77,406	33,604	29,212	62,816	17,141	28,224	45,365
62. Natural gas cleaning plants	—	—	—	59	—	59	—	—	—
Other engineering construction	1,009	1,936	2,945	848	927	1,775	542	904	1,446
63. Bridges, trestles, culverts, overpasses, viaducts	238	179	417	350	349	699	213	264	477
64. Tunnels and subways	19	1	20	—	—	—	—	1	1
65. Incinerators	30	—	30	66	4	70	24	4	28
66. Park systems, landscaping, sodding, etc.	57	250	307	68	141	209	81	150	231
67. Swimming pools, tennis courts, outdoor recreation facilities	41	30	71	7	29	36	1	7	8
68. Mine shafts and other below surface workings	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails	239	75	314	178	80	258	108	96	204
70. Other engineering construction	385	1,401	1,786	179	324	503	115	382	497

TABLE 12. Utilities

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	981,711	281,098	1,262,809	1,140,975	280,709	1,421,684	1,267,440	312,360	1,579,800
Total building construction	103,342	30,331	133,673	97,373	31,706	129,079	81,976	34,708	116,684
Residential	-	-	-	-	-	-	-	-	-
Industrial	18,008	16,888	34,896	19,738	16,090	35,828	16,592	19,470	36,062
2. Factories, plants, workshops, food canneries	2,513	2,083	4,596	2,562	906	3,468	2,012	1,586	3,598
3. Mine and mine mill buildings	604	-	604	354	-	354	-	-	-
4. Railway stations, offices, roadway buildings	11,837	11,831	23,668	12,467	11,612	24,079	9,021	13,380	22,401
5. Railway shops, engine houses, water and fuel stations	3,054	2,974	6,028	4,355	3,572	7,927	5,559	4,504	10,063
Commercial	52,063	10,216	62,279	44,179	12,010	56,189	37,622	12,029	49,651
6. Warehouses, storehouses, refrigerated storage, etc.	6,100	2,774	8,874	13,014	2,457	15,471	8,451	2,514	10,965
7. Grain elevators	23,634	5,236	28,870	15,687	6,274	21,961	9,652	6,093	15,745
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	3	-	3	7	12	19	11	13	24
9. Office buildings	18,232	783	19,015	10,006	2,083	12,089	11,080	2,232	13,312
10. Stores, retail and wholesale	963	544	1,507	1,583	-	1,583	60	-	60
11. Garages and service stations	3,123	873	3,996	3,880	1,177	5,057	8,311	1,173	9,484
12. Theatres, arenas, amusement and recreational buildings	8	6	14	2	7	9	57	4	61
13. Laundries and dry cleaning establishments	-	-	-	-	-	-	-	-	-
Institutional	-	6	6	-	8	8	-	6	6
14. Schools and other educational buildings	-	5	5	-	7	7	-	4	4
15. Churches and other religious buildings	-	-	-	-	-	-	-	-	-
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	-	1	1	-	1	1	-	2	2
17. Other institutional buildings	-	-	-	-	-	-	-	-	-
Other building construction	33,271	3,221	36,492	33,456	3,598	37,054	27,762	3,203	30,965
18. Farm buildings (excluding dwellings)	-	-	-	-	-	-	-	-	-
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	30,390	1,745	32,135	32,637	2,134	34,771	26,820	1,951	28,771
20. Aeroplane hangars	1,407	110	1,517	72	296	368	61	160	221
21. Passenger terminals, bus, boat or air	136	1,200	1,336	636	993	1,629	741	933	1,674
22. Armouries, barracks, drill halls, etc.	-	-	-	-	-	-	-	-	-
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	512	60	572	79	52	131	56	53	109
24. Other building construction	826	106	932	32	123	155	84	106	190
Total engineering construction	878,369	250,767	1,129,136	1,043,602	249,003	1,292,605	1,185,464	277,652	1,463,116
Marine construction	16,458	4,058	20,516	6,847	3,577	10,424	17,238	4,374	21,612
25. Docks, wharves, piers, breakwaters	9,887	2,100	11,987	4,548	2,713	7,261	7,015	2,905	9,920
26. Retaining walls, embankments, ripraping	324	20	344	754	5	759	91	48	139
27. Canals and waterways	1,882	1,162	3,044	748	459	1,207	9,512	936	10,448
28. Dredging and pile driving	4,354	639	4,993	783	381	1,164	415	466	881
29. Dyke construction	-	82	82	-	-	-	-	-	-
30. Logging booms	11	19	30	6	10	16	-	11	11
31. Other marine construction	-	38	36	8	9	17	205	8	213

TABLE 12. Utilities — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	10,062	618	10,680	27,694	501	28,195	37,765	502	38,267
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	6,182	234	6,416	17,440	250	17,690	29,178	255	29,433
33. Gravel or stone streets, highways, roads, parking lots, etc.	639	227	866	661	152	813	593	152	745
34. Dirt, clay or other streets, roads, parking lots, etc.	804	55	859	138	21	159	185	26	211
35. Grading, scraping, oiling, filling	2,401	100	2,501	9,455	77	9,532	7,809	60	7,869
36. Sidewalks, paths	—	2	2	—	1	1	—	9	9
37. Aerodromes, landing fields, runways, tarmac	36	—	36	—	—	—	—	—	—
Waterworks and sewage systems	60,298	23,248	83,546	52,938	18,782	71,720	86,642	23,007	109,649
38. Tile drains, drainage ditches, storm sewers	8	50	58	—	6	6	5	11	16
39. Water mains, hydrants and services	54,104	18,341	72,445	44,491	17,156	61,647	66,008	19,089	85,097
40. Sewage systems and connections	618	17	635	111	44	155	38	32	70
41. Pumping stations, water	4,646	2,253	6,899	4,335	1,408	5,743	15,741	3,738	19,479
42. Water storage tanks	922	2,587	3,509	4,001	168	4,169	4,850	137	4,987
Dams and irrigation	44,067	575	44,642	125,733	792	126,525	130,733	634	131,367
43. Dams and reservoirs	44,039	575	44,614	125,698	773	126,471	130,133	629	130,762
44. Irrigation and land reclamation projects	28	—	28	35	19	54	800	5	605
Electric power construction	372,435	50,775	423,210	360,097	55,333	415,430	392,435	60,514	452,949
45. Electric power generating plants, including water conveying and controlling structures	194,818	12,981	207,799	128,237	10,489	136,726	110,771	11,310	122,081
46. Electric transformer stations	23,098	5,871	28,969	43,616	7,145	50,761	51,337	7,679	59,016
47. Power transmission and distribution lines, trolley wires	147,889	29,413	177,302	183,473	35,315	218,788	222,875	39,145	262,020
48. Street lighting	6,630	2,510	9,140	6,771	2,384	9,155	7,452	2,380	9,832
Railway, telephone and telegraph	214,758	147,853	362,611	242,313	148,901	391,214	223,152	166,788	389,940
49. Railway tracks and roadbed	100,088	102,168	202,256	111,828	104,230	216,058	95,438	118,069	213,507
50. Signals and interlockers	6,528	7,403	13,931	8,899	7,251	16,150	8,266	8,305	16,571
51. Telegraph and telephone lines, underground and marine cables	108,142	38,282	146,424	121,586	37,420	159,006	119,448	40,414	159,862
Gas and oil facilities	119,546	10,765	130,311	163,689	9,318	173,007	178,955	9,336	188,291
52. Gas mains and services	57,354	5,975	63,329	58,247	4,591	62,838	50,016	4,768	54,784
53. Pumping stations, oil	1,963	1,057	3,020	3,583	1,371	4,954	1,405	1,322	2,727
54. Pumping stations, gas	25,073	212	25,285	27,201	378	27,579	25,711	388	26,099
55. Oil storage tanks	633	284	917	1,540	327	1,867	858	184	1,042
56. Gas storage tanks	159	14	173	2,537	38	2,575	743	37	780
57. Oil pipe lines	12,616	2,377	14,993	17,798	1,910	19,708	11,415	1,853	13,268
58. Gas pipe lines	20,449	791	21,240	52,707	674	53,381	88,601	752	89,353
59. Oil wells	—	—	—	—	—	—	—	—	—
60. Gas wells	973	33	1,006	70	11	81	128	12	140
61. Oil refinery — Processing units	—	—	—	—	—	—	—	—	—
62. Natural gas cleaning plants	326	22	348	6	18	24	78	20	98
Other engineering construction	40,745	12,875	53,620	64,291	11,799	76,090	118,544	12,497	131,041
63. Bridges, trestles, culverts, overpasses, viaducts	16,562	9,411	25,973	27,317	8,234	35,551	29,689	9,546	39,235
64. Tunnels and subways	16,799	46	16,845	28,076	56	28,132	72,076	19	72,095
65. Incinerators	—	—	—	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.	226	79	305	139	33	172	308	16	324
67. Swimming pools, tennis courts, outdoor recreation facilities	8	—	8	2	—	2	—	—	—
68. Mine shafts and other below surface workings	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails	1,725	2,087	3,812	1,562	1,649	3,211	1,134	1,940	3,074
70. Other engineering construction	5,425	1,252	6,677	7,195	1,827	9,022	15,337	976	16,313

TABLE 13. Trade Finance and Commercial Services

TABLE 13. Trade Finance and Commercial Services — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	4,042	399	4,441	3,307	349	3,656	7,161	411	7,572
32. Hard surfaced or paved streets, highways, parking lots, etc.	3,319	340	3,659	2,940	297	3,237	4,856	338	5,194
33. Gravel or stone streets, highways, roads, parking lots, etc.	350	41	391	99	34	133	593	58	651
34. Dirt, clay or other streets, roads, parking lots, etc.	12	6	18	37	3	40	6	2	8
35. Grading, scraping, oiling, filling	200	9	209	147	14	161	1,588	13	1,601
36. Sidewalks, paths	161	3	164	84	1	85	108	—	108
37. Aerodromes, landing fields, runways, tarmac	—	—	—	—	—	—	10	—	10
Waterworks and sewage systems	2,146	11	2,157	1,955	14	1,969	7,263	16	7,279
38. Tile drains, drainage ditches, storm sewers	594	4	598	658	4	662	1,944	5	1,949
39. Water mains, hydrants and services	1,172	2	1,174	763	1	764	3,097	—	3,097
40. Sewage systems and connections	336	5	341	438	8	446	2,219	10	2,229
41. Pumping stations, water	—	—	—	90	1	91	3	1	4
42. Water storage tanks	44	—	44	6	—	6	—	—	—
Dams and irrigation	—	—	—	5	—	5	—	—	—
43. Dams and reservoirs	—	—	—	—	—	—	—	—	—
44. Irrigation and land reclamation projects	—	—	—	5	—	5	—	—	—
Electric power construction	330	8	338	220	9	229	776	8	784
45. Electric power generating plants, including water conveying and controlling structures	—	1	1	13	—	13	—	—	—
46. Electric transformer stations	—	—	—	158	3	161	84	2	86
47. Power transmission and distribution lines, trolley wires	145	6	151	11	5	16	633	5	638
48. Street lighting	185	1	186	38	1	39	59	1	60
Railway, telephone and telegraph	33	—	33	69	—	69	624	—	624
49. Railway tracks and roadbed	33	—	33	58	—	58	15	—	15
50. Signals and interlockers	—	—	—	—	—	—	—	—	—
51. Telegraph and telephone lines, underground and marine cables	—	—	—	11	—	11	609	—	609
Gas and oil facilities	5,291	1,422	6,713	4,662	1,373	6,235	3,984	1,299	5,283
52. Gas mains and services	1	—	1	—	—	—	—	—	—
53. Pumping stations, oil	—	8	8	—	—	—	5	—	5
54. Pumping stations, gas	87	46	133	6	—	6	—	—	—
55. Oil storage tanks	4,066	1,360	5,426	4,317	1,362	5,679	3,952	1,287	5,239
56. Gas storage tanks	724	—	724	—	—	—	—	—	—
57. Oil pipe lines	413	8	421	265	11	276	27	12	39
58. Gas pipe lines	—	—	—	100	—	100	—	—	—
59. Oil wells	—	—	—	—	—	—	—	—	—
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery—Processing units	—	—	—	174	—	174	—	—	—
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	441	426	867	1,003	431	1,434	1,103	702	2,105
63. Bridges, trestles, culverts, overpasses, viaducts	21	—	21	1	3	4	1	253	254
64. Tunnels and subways	—	—	—	—	—	—	—	—	—
65. Incinerators	—	—	—	—	—	—	1	—	1
66. Park systems, landscaping, sodding, etc.	154	11	165	132	3	135	671	3	674
67. Swimming pools, tennis courts, outdoor recreation facilities ...	6	407	413	221	409	630	78	424	502
68. Mine shafts and other below surface workings	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails	228	8	236	235	12	247	199	18	217
70. Other engineering construction	32	—	32	414	4	418	453	4	457

TABLE 14. Federal Government Departments

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	264,262	73,251	337,513	218,328	77,824	296,152	213,901	78,917	292,818
Total building construction	141,642	45,826	187,468	112,125	48,863	160,988	112,441	49,372	161,813
2. Factories, plants, workshops, food canneries	12,404	5,806	18,210	9,826	6,070	15,896	9,839	6,104	15,943
6. Warehouses, storehouses, refrigerated storage, etc.	1,353	2,397	3,750	1,133	2,544	3,677	1,251	2,579	3,830
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	1,538	1,176	2,714	1,624	1,243	2,867	1,631	1,258	2,889
9. Office buildings	27,833	7,547	35,380	23,324	8,147	31,471	24,551	8,236	32,787
10. Stores, retail and wholesale	30	101	131	25	104	129	25	106	131
11. Garages and service stations	1,073	788	1,861	895	820	1,715	961	839	1,800
12. Theatres, arenas, amusement and recreational buildings	1,825	728	2,553	1,556	776	2,332	1,673	784	2,457
14. Schools and other educational buildings	9,814	2,379	12,193	8,366	2,495	10,861	9,301	2,548	11,849
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	2,538	1,947	4,485	2,231	2,106	4,337	2,740	2,125	4,885
17. Other institutional buildings	3,882	193	4,075	3,351	204	3,555	3,361	209	3,570
18. Farm buildings (excluding dwellings)	1,736	400	2,136	1,414	409	1,823	1,228	426	1,654
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	31,259	1,070	32,329	25,968	1,225	27,193	25,709	1,234	26,943
20. Aeroplane hangars	2,495	2,532	5,027	2,083	2,685	4,768	2,743	2,711	5,454
21. Passenger terminals, bus, boat or air	28,722	187	28,909	17,671	215	17,886	14,786	216	15,002
22. Armouries, barracks, drill halls, etc.	10,690	16,488	27,178	8,983	17,638	26,621	9,085	17,787	26,872
24. Other building construction	4,450	2,087	6,537	3,675	2,182	5,857	3,557	2,210	5,767
Total engineering construction	122,620	27,425	150,045	106,203	28,961	135,164	101,460	29,545	131,005
25. Docks, wharves, piers, breakwaters	25,814	3,236	29,050	21,368	3,445	24,813	23,701	3,499	27,200
26. Retaining walls, embankments, ripraping	681	120	801	586	127	713	688	129	817
27. Canals and waterways	811	330	1,141	671	365	1,036	683	803	1,486
28. Dredging and pile driving	2,007	3,380	5,367	1,861	3,538	5,199	1,790	3,170	4,980
29. Dyke construction	447	175	622	389	182	571	351	183	534
31. Other marine construction	1,270	100	1,370	1,036	107	1,143	1,116	109	1,225
32. Hard surfaced or paved streets, highways, parking lots, etc.	6,533	2,064	8,597	5,578	2,198	7,776	6,711	2,230	8,941
33. Gravel or stone streets, highways, roads, parking lots, etc.	12,449	2,580	15,029	11,239	2,681	13,920	10,737	2,743	13,480
34. Dirt, clay or other streets, roads, parking lots, etc.	786	223	1,009	663	234	897	709	236	945
35. Grading, scraping, oiling, filling	52	381	433	40	393	433	47	406	453
37. Aerodromes, landing fields, runways, tarmac	22,410	1,004	23,414	18,717	1,076	19,793	19,006	1,086	20,092
38. Tie drains, drainage ditches, storm sewers	213	627	840	202	656	858	168	669	637
39. Water mains, hydrants and services	2,418	1,101	3,519	2,113	1,178	3,291	2,094	1,194	3,288
40. Sewage systems and connections	1,262	513	1,775	1,035	548	1,583	843	556	1,399
43. Dams and reservoirs	23,667	1,417	25,104	19,239	1,412	20,651	16,005	1,503	17,508
44. Irrigation and land reclamation projects	624	512	1,136	571	514	1,085	531	539	1,070
45. Electric power generating plants, including water conveying and controlling structures	4,698	1,821	6,519	2,573	1,973	4,546	1,138	2,003	3,141
46. Electric transformer stations	24	77	101	1,873	104	1,977	380	108	488
47. Power transmission and distribution lines, trolley wires	1,177	691	1,868	1,260	758	2,018	1,365	776	2,141
55. Oil storage tanks	476	36	514	407	40	447	447	41	488
57. Oil pipe lines	38	23	61	32	23	55	33	24	57
63. Bridges, trestles, culverts, overpasses, viaducts	6,226	934	7,160	5,186	984	6,170	5,493	1,002	6,495
66. Park systems, landscaping, sodding, etc.	1,866	1,990	3,856	1,596	2,110	3,706	1,875	2,144	3,819
67. Swimming pools, tennis courts, outdoor recreation facilities	899	357	1,256	780	374	1,154	651	382	1,033
69. Fences, snowsheds, signs, guard rails	876	846	1,522	583	882	1,465	545	905	1,450
70. Other engineering construction	5,076	2,885	7,961	6,805	3,059	9,864	4,553	3,105	7,658

TABLE 15. Provincial Government Departments

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	478,561	146,183	624,744	542,087	155,747	697,834	689,193	161,910	851,103
Total building construction	27,721	23,155	50,876	33,606	11,567	45,173	45,958	12,471	58,429
2. Factories, plants, workshops, food canneries	866	474	1,340	305	5	310	100	5	105
6. Warehouses, storehouses, refrigerated storage, etc.	625	670	1,295	2,478	1,196	3,674	3,940	1,309	5,249
8. Hotels, clubs, restaurants, cafeterias, tourist cabins.....	39	176	215	—	—	—	—	—	—
9. Office buildings	10,080	12,771	22,851	16,736	7,925	24,661	21,486	8,373	29,859
11. Garages and service stations	2,204	296	2,500	—	—	—	—	—	—
12. Theatres, arenas, amusement and recreational buildings	249	466	715	81	7	88	168	3	171
17. Other institutional buildings	10,259	7,409	17,668	8,861	1,186	10,047	12,779	1,425	14,204
24. Other building construction	3,399	893	4,292	5,145	1,248	6,393	7,485	1,356	8,841
Total engineering construction	450,840	123,028	573,868	508,481	144,180	632,661	643,235	149,439	792,674
25. Docks, wharves, piers, breakwaters	1,138	214	1,352	104	19	123	155	25	180
28. Dredging and pile driving	—	24	24	—	—	—	—	—	—
31. Other marine construction	5,578	949	6,527	6,519	45	6,564	9,603	44	9,647
32. Hard surfaced or paved streets, highways, parking lots, etc.	247,252	31,676	278,928	303,512	71,970	375,482	409,173	76,764	485,937
33. Gravel or stone streets, highways, roads, parking lots, etc.	86,614	46,700	133,314	79,533	49,761	129,294	79,235	49,419	128,654
34. Dirt, clay or other streets, roads, parking lots, etc.	5,829	9,627	15,456	1,547	319	1,866	1,132	317	1,449
35. Grading, scraping, oiling, filling	10,970	11,112	22,082	15,534	2,904	18,438	15,456	2,429	17,885
38. Tile drains, drainage ditches, storm sewers	930	1,404	2,334	5,859	560	6,419	6,834	496	7,330
39. Water mains, hydrants and services	258	49	307	398	38	436	539	65	604
43. Dams and reservoirs	137	17	154	1,893	31	1,924	8,266	26	8,292
44. Irrigation and land reclamation projects	6,723	—	6,723	8,395	43	8,438	9,395	82	9,477
47. Power transmission and distribution lines, trolley wires	122	2	124	1,096	2	1,098	1,085	4	1,089
51. Telegraph and telephone lines, underground and marine cables	662	19	681	—	8	8	2	10	12
63. Bridges, trestles, culverts, overpasses, viaducts	76,390	12,046	88,436	79,371	16,865	96,236	97,595	17,832	115,427
66. Park systems, landscaping, sodding, etc.	1,162	1,458	2,620	1,094	779	1,873	1,153	831	1,984
67. Swimming pools, tennis courts, outdoor recreation facilities ...	358	397	755	2,094	723	2,817	1,989	906	2,695
69. Fences, snowsheds, signs, guard rails	2,499	2,698	5,197	285	38	308	248	101	349
70. Other engineering construction	4,218	4,636	8,854	1,267	75	1,342	1,375	88	1,463

TABLE 16. Municipal Government Departments

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	386,873	110,643	497,516	409,451	101,824	511,275	439,863	102,928	542,591
Total building construction	57,041	8,870	65,911	65,929	9,063	74,992	70,615	9,438	80,053
9. Office buildings	17,173	1,926	19,099	30,267	2,074	32,341	30,069	2,178	32,247
12. Theatres, arenas, amusement and recreational buildings	19,607	3,685	23,292	16,389	3,641	20,030	11,542	3,637	15,179
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	5,888	308	6,196	5,650	337	5,987	5,749	301	6,050
24. Other building construction	14,373	2,951	17,324	13,623	3,011	16,634	23,255	3,322	26,577
Total engineering construction	329,832	101,773	431,605	343,522	92,761	436,283	369,048	93,490	482,538
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	139,987	70,591	210,578	144,050	62,430	206,480	164,754	62,862	227,616
36. Sidewalks, paths	19,030	5,056	24,086	19,918	4,644	24,562	19,836	4,730	24,566
40. Sewage systems and connections	105,465	11,595	117,060	117,909	12,366	130,275	118,274	12,579	130,853
48. Street lighting	5,369	2,983	8,352	5,083	3,196	8,279	5,074	3,285	8,359
63. Bridges, trestles, culverts, overpasses, viaducts	41,287	3,054	44,341	37,656	3,025	40,681	36,931	2,856	39,787
70. Other engineering construction	18,694	8,494	27,188	18,906	7,100	26,006	24,179	7,178	31,357

TABLE 17. Housing and Institutional Services

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Residential	1,587,000	513,000	2,100,000	1,713,400	544,000	2,257,400	1,908,000	577,000	2,485,000
Institutional:									
Total value of work	729,402	60,926	790,328	743,738	58,366	802,104	664,471	59,992	724,463
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	376	7	383	1,380	1	1,381	51	9	60
9. Office buildings	270	—	270	—	—	—	50	—	50
12. Theatres, arenas, amusement and recreational buildings	972	20	992	1,562	28	1,590	642	19	661
14. Schools and other educational buildings	488,457	33,847	522,304	529,667	31,915	561,582	440,624	31,729	472,353
15. Churches and other religious buildings	53,764	7,318	61,080	45,292	6,725	52,017	41,171	6,315	47,486
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	160,107	18,169	178,276	142,548	18,178	160,726	158,743	20,486	179,229
17. Other institutional buildings	14,396	1,196	15,592	15,673	1,031	16,704	13,096	1,006	14,102
18. Farm buildings (excluding dwellings)	12	35	47	44	48	92	5	33	38
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	8,402	75	8,477	4,020	55	4,075	6,275	92	6,367
24. Other building construction	158	8	166	596	162	758	786	136	922
Total engineering construction	2,488	253	2,741	2,956	223	3,179	3,028	167	3,195

VALUE OF CONSTRUCTION WORK PERFORMED, BY TYPE OF STRUCTURE - PROVINCES 1962-64

TABLE 18. Newfoundland

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	176,857	22,929	199,786	161,227	29,199	190,426	157,239	32,840	190,079
Total building construction	109,988	12,668	122,656	99,068	14,120	113,188	91,758	17,323	109,081
Residential	21,500	7,200	28,700	31,300	7,600	38,900	34,900	10,600	45,500
Industrial	56,878	1,368	58,046	40,694	2,140	42,834	29,042	1,771	30,813
Commercial	8,128	1,877	10,005	7,577	2,145	9,722	9,491	2,274	11,765
Institutional	19,054	1,305	20,359	16,384	1,356	17,740	15,183	1,801	16,984
Other building construction	4,628	918	5,546	3,113	879	3,992	3,142	877	4,019
Total engineering construction	66,869	10,261	77,130	62,159	15,079	77,238	65,481	15,517	80,998
Marine construction	15,903	1,193	17,096	8,168	1,195	9,363	5,593	1,205	6,798
Road, highway and aerodrome construction	13,825	6,471	20,296	23,308	9,945	33,253	36,726	10,146	46,872
Waterworks and sewage systems	4,446	553	4,999	4,081	821	4,902	1,853	681	2,534
Dams and irrigation	134	70	204	395	69	464	61	12	73
Electric power construction	13,006	625	13,631	14,343	716	15,059	8,602	592	9,194
Railway, telephone and telegraph	6,561	981	7,542	4,769	1,283	6,052	4,337	1,022	5,359
Gas and oil facilities	8,008	122	8,130	759	134	893	611	163	774
Other engineering construction	4,986	246	5,232	8,336	916	7,252	7,698	1,696	9,394

TABLE 19. Prince Edward Island

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	30,010	8,731	38,741	29,344	8,391	37,735	29,121	8,185	37,306
Total building construction	17,738	5,500	23,238	18,827	5,515	24,342	19,859	5,278	25,135
Residential	7,800	2,600	10,400	7,400	2,700	10,100	6,200	2,500	10,700
Industrial	175	200	375	122	228	350	343	231	574
Commercial	1,469	500	1,969	4,501	418	4,917	6,453	346	6,799
Institutional	6,388	288	6,674	5,164	263	5,427	2,574	275	2,849
Other building construction	1,906	1,914	3,820	1,840	1,908	3,548	2,289	1,924	4,213
Total engineering construction	12,272	3,231	15,503	10,317	2,876	13,393	9,262	2,909	12,171
Marine construction	1,566	621	2,187	1,256	628	1,884	2,074	644	2,718
Road, highway and aerodrome construction	6,487	1,893	8,180	4,715	1,414	6,129	4,662	1,395	6,057
Waterworks and sewage systems	390	129	519	358	137	495	417	136	555
Dams and irrigation	34	48	82	33	47	80	33	47	80
Electric power construction	2,352	256	2,608	2,763	255	3,018	626	276	902
Railway, telephone and telegraph	823	160	983	775	186	941	838	176	1,014
Gas and oil facilities	41	3	44	76	2	78	2	1	3
Other engineering construction	579	321	900	541	227	768	610	232	842

TABLE 20. Nova Scotia

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	154,457	50,689	205,146	161,898	55,290	217,188	163,102	57,182	220,284
Total building construction	108,896	29,139	138,035	106,095	29,633	135,728	102,131	29,514	131,645
Residential	44,100	14,400	58,500	44,300	15,200	59,500	49,400	14,900	64,300
Industrial	8,067	2,814	10,881	8,776	2,602	11,378	8,367	2,787	11,154
2. Factories, plants, workshops, food canneries	6,333	2,381	8,714	8,108	2,034	10,142	7,690	2,108	9,798
3. Mine and mine mill buildings	1,325	14	1,339	112	45	157	275	37	312
4. Railway stations, offices, roadway buildings	314	313	627	398	369	767	289	436	725
5. Railway shops, engine houses, water and fuel stations	95	106	201	158	154	312	113	206	319
Commercial	15,652	4,233	19,885	19,066	3,778	22,844	12,424	3,646	16,070
6. Warehouses, storehouses, refrigerated storage, etc.	1,033	1,149	2,182	1,074	979	2,053	1,221	954	2,175
7. Grain elevators	2	72	74	7	82	89	255	79	334
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	1,773	280	2,053	1,516	163	1,679	454	265	719
9. Office buildings	3,939	1,311	5,250	5,252	1,201	6,453	4,499	1,029	5,528
10. Stores, retail and wholesale	6,297	836	7,133	9,909	677	10,586	4,818	687	5,505
11. Garages and service stations	2,254	380	2,634	960	390	1,350	801	406	1,207
12. Theatres, arenas, amusement and recreational buildings	354	193	547	348	273	621	375	213	588
13. Laundries and dry cleaning establishments	—	12	12	—	13	13	1	13	14
Institutional	30,669	1,931	32,600	26,406	2,217	28,625	25,212	2,353	27,565
14. Schools and other educational buildings	18,468	1,058	19,526	13,100	1,345	14,445	13,873	1,277	15,150
15. Churches and other religious buildings	2,450	345	2,795	1,135	268	1,403	1,746	297	2,043
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	6,586	515	7,101	9,049	601	9,650	8,079	775	8,854
17. Other institutional buildings	3,165	13	3,178	3,124	3	3,127	1,514	4	1,518
Other building construction	10,408	5,761	16,160	7,545	5,836	13,381	6,728	5,828	12,556
18. Farm buildings (excluding dwellings)	2,427	1,352	3,779	2,341	1,312	3,653	2,333	1,318	3,651
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	2,206	141	2,347	1,363	63	1,426	1,186	66	1,252
20. Aeroplane hangars	1,013	427	1,440	331	451	782	276	449	725
21. Passenger terminals, bus, boat or air	166	12	178	123	7	130	103	7	110
22. Armouries, barracks, drill halls, etc.	913	3,052	3,965	807	3,225	4,032	677	3,211	3,888
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	869	58	927	95	59	154	106	55	161
24. Other building construction	2,814	719	3,533	2,485	719	3,204	2,047	722	2,769
Total engineering construction	45,561	21,550	67,111	55,803	25,657	81,460	60,971	27,668	88,639
Marine construction	5,114	1,588	6,703	4,658	1,736	6,394	3,859	1,576	5,435
25. Docks, wharves, piers, breakwaters	4,576	946	5,522	4,153	1,052	5,205	3,370	896	4,266
26. Retaining walls, embankments, ripraping	87	18	85	59	19	78	125	17	142
27. Canals and waterways	—	20	20	—	22	22	—	22	22
28. Dredging and pile driving	155	483	638	145	510	655	115	509	624
29. Dyke construction	310	114	424	275	120	395	230	120	350
30. Logging booms	—	—	—	—	—	—	—	—	—
31. Other marine construction	6	8	14	26	13	39	19	12	31

TABLE 20. Nova Scotia — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	19,021	8,705	27,726	19,332	11,983	31,315	24,718	12,546	37,264
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	15,893	746	16,639	15,793	9,271	25,064	21,554	9,673	31,227
33. Gravel or stone streets, highways, roads, parking lots, etc.	1,280	7,388	8,688	1,690	2,116	3,806	2,224	2,282	4,506
34. Dirt, clay or other streets, roads, parking lots, etc.	554	318	872	487	328	815	561	323	884
35. Grading, scraping, oiling, filling	174	11	185	16	10	26	7	10	17
36. Sidewalks, paths	1,044	62	1,106	1,295	68	1,363	329	69	398
37. Aerodromes, landing fields, runways, tarmac	76	180	256	51	190	241	43	189	232
Waterworks and sewage systems	4,115	757	4,872	4,750	1,274	6,024	5,678	888	6,566
38. Tile drains, drainage ditches, storm sewers	55	30	85	284	33	317	29	33	52
39. Water mains, hydrants and services	1,433	465	1,898	1,846	340	2,186	2,999	360	3,359
40. Sewage systems and connections	2,578	231	2,809	2,618	886	3,504	2,650	485	3,135
41. Pumping stations, water	39	31	70	2	14	16	—	8	8
42. Water storage tanks	10	—	10	—	1	1	—	2	2
Dams and irrigation	502	140	642	493	122	615	1,305	281	1,586
43. Dams and reservoirs	374	65	439	369	50	419	1,181	208	1,389
44. Irrigation and land reclamation projects	128	75	203	124	72	196	124	73	197
Electric power construction	5,618	1,961	7,579	5,932	1,694	7,626	11,410	2,481	13,891
45. Electric power generating plants, including water conveying and controlling structures	1,069	347	1,416	1,751	187	1,938	2,034	260	2,294
46. Electric transformer stations	287	67	354	338	138	476	1,117	208	1,325
47. Power transmission and distribution lines, trolley wires	4,038	1,471	5,509	3,193	1,231	4,424	7,954	1,859	9,813
48. Street lighting	224	76	300	650	138	788	305	154	459
Railway, telephone and telegraph	5,677	4,050	9,727	6,644	4,415	11,059	6,180	4,860	11,040
49. Railway tracks and roadbed	2,687	2,976	5,663	3,339	3,266	6,605	2,443	3,832	6,275
50. Signals and interlockers	173	183	356	245	206	451	190	249	439
51. Telegraph and telephone lines, underground and marine cables	2,817	891	3,708	3,060	943	4,003	3,547	779	4,326
Gas and oil facilities	1,462	1,850	3,312	9,176	1,616	10,792	1,842	2,069	3,911
52. Gas mains and services	—	—	—	—	—	—	—	—	—
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks	467	54	521	1,753	71	1,824	164	63	227
56. Gas storage tanks	43	10	53	—	7	7	—	5	5
57. Oil pipe lines	—	63	63	1,100	59	1,159	—	84	84
58. Gas pipe lines	16	17	33	—	—	—	—	—	—
59. Oil wells	—	—	—	125	—	125	110	—	110
60. Gas wells	—	—	—	125	—	125	110	—	110
61. Oil refinery — Processing units	936	1,706	2,642	6,073	1,479	7,552	1,458	1,917	3,375
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	4,052	2,498	6,550	4,818	2,817	7,635	5,979	2,967	8,946
63. Bridges, trestles, culverts, overpasses, viaducts	2,252	1,546	3,798	2,641	1,764	4,405	3,887	1,729	5,616
64. Tunnels and subways	—	16	16	1	17	18	1	17	18
65. Inclinerators	2	1	3	2	1	3	6	1	7
66. Park systems, landscaping, sodding, etc.	217	188	405	302	219	521	291	225	516
67. Swimming pools, tennis courts, outdoor recreation facilities...	26	37	63	34	39	73	30	39	69
68. Mine shafts and other below surface workings	321	269	590	654	354	1,008	816	534	1,350
69. Fences, snowsheds, signs, guard rails	265	192	457	310	179	489	224	191	415
70. Other engineering construction	969	249	1,218	874	244	1,118	724	231	955

TABLE 21. New Brunswick

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	117,002	38,319	155,321	115,276	42,519	157,795	141,286	42,073	183,359
Total building construction	67,450	19,603	87,053	63,857	19,890	83,747	79,424	17,930	97,354
Residential	30,000	9,700	39,700	24,000	10,300	34,300	26,700	8,100	34,800
Industrial	6,740	2,424	9,164	10,092	2,327	12,419	14,156	2,406	16,562
2. Factories, plants, workshops, food canneries	4,264	1,596	5,860	5,592	1,388	6,980	12,865	1,341	14,206
3. Mine and mine mill buildings	1,851	30	1,881	3,536	26	3,562	635	32	667
4. Railway stations, offices, roadway buildings	461	549	1,010	649	544	1,193	413	634	1,047
5. Railway shops, engine houses, water and fuel stations	164	249	413	315	369	684	243	399	642
Commercial	8,949	3,367	13,316	8,895	3,320	12,215	14,665	3,312	17,977
6. Warehouses, storehouses, refrigerated storage, etc.	812	635	1,447	985	462	1,447	2,577	471	3,048
7. Grain elevators	5	104	109	3	27	30	2	23	25
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	415	134	549	352	103	455	322	146	468
9. Office buildings	5,110	1,394	6,504	3,824	1,609	5,433	7,088	1,611	8,699
10. Stores, retail and wholesale	1,850	591	2,441	2,572	533	3,105	3,675	529	4,204
11. Garages and service stations	805	408	1,213	530	390	920	626	442	1,068
12. Theatres, arenas, amusement and recreational buildings	903	76	979	596	130	726	359	74	433
13. Laundries and dry cleaning establishments	49	25	74	33	66	99	16	16	32
Institutional	16,320	1,483	17,803	15,461	1,353	16,814	18,291	1,334	19,625
14. Schools and other educational buildings	10,251	305	10,556	9,509	400	9,909	14,779	426	15,205
15. Churches and other religious buildings	2,071	256	2,327	1,574	277	1,851	1,719	246	1,965
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	3,506	900	4,406	4,181	616	4,797	1,587	631	2,218
17. Other institutional buildings	492	22	514	197	60	257	206	31	237
Other building construction	4,441	2,629	7,070	5,409	2,590	7,999	5,612	2,778	8,390
18. Farm buildings (excluding dwellings)	2,066	1,302	3,368	2,091	1,287	3,378	2,031	1,296	3,327
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	893	139	1,032	810	149	959	1,522	152	1,674
20. Aeroplane hangars	246	81	327	204	82	286	216	83	299
21. Passenger terminals, bus, boat or air	9	4	13	7	4	11	8	4	12
22. Armouries, barracks, drill halls, etc.	70	618	688	58	630	688	61	637	698
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	462	305	767	1,449	252	1,701	764	385	1,149
24. Other building construction	695	180	875	790	186	976	1,010	221	1,231
Total engineering construction	49,552	18,716	68,268	51,419	22,629	74,048	61,862	24,143	86,005
Marine construction	5,484	853	6,337	1,762	831	2,593	2,106	900	3,006
25. Docks, wharves, piers, breakwaters	4,249	382	4,631	742	337	1,079	1,032	343	1,375
26. Retaining walls, embankments, ripraping	201	—	201	172	—	172	176	—	176
27. Canals and waterways	—	9	9	—	10	10	—	10	10
28. Dredging and pile driving	889	373	1,262	737	369	1,106	780	440	1,220
29. Dyke construction	130	58	188	108	59	167	114	60	174
30. Logging booms	11	16	27	—	41	41	—	32	32
31. Other marine construction	4	15	19	3	15	18	4	15	19

TABLE 21. New Brunswick — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	19,961	7,334	27,295	21,830	10,847	32,777	27,281	11,144	38,425
32. Hard surfaced or paved streets, highways, parking lots, etc.	11,104	856	11,960	17,253	1,651	18,904	21,226	1,768	22,994
33. Gravel or stone streets, highways, roads, parking lots, etc.	6,502	5,665	12,167	2,565	8,278	10,843	3,707	8,458	12,165
34. Dirt, clay or other streets, roads, parking lots, etc.	785	726	1,511	786	738	1,524	893	747	1,640
35. Grading, scraping, oiling, filling	—	22	22	—	22	22	30	22	52
36. Sidewalks, paths	138	32	170	138	124	262	168	115	283
37. Aerodromes, landing fields, runways, tarmac	1,432	33	1,465	1,188	34	1,222	1,257	34	1,291
Waterworks and sewage systems	2,954	1,257	4,211	2,164	1,104	3,268	2,418	1,297	3,715
38. Tile drains, drainage ditches, storm sewers	67	15	82	87	16	103	133	16	149
39. Water mains, hydrants and services	1,662	1,036	2,698	1,347	965	2,312	1,217	1,160	2,377
40. Sewage systems and connections	1,050	190	1,240	523	110	633	1,021	115	1,136
41. Pumping stations, water	90	15	105	203	9	212	25	6	31
42. Water storage tanks	85	1	86	4	4	8	22	—	22
Dams and irrigation	250	81	331	189	92	281	2,506	84	2,590
43. Dams and reservoirs	145	10	155	86	22	108	2,402	13	2,415
44. Irrigation and land reclamation projects	105	71	176	103	70	173	104	71	175
Electric power construction	10,010	658	10,668	9,105	1,113	10,218	14,004	1,440	15,444
45. Electric power generating plants, including water conveying and controlling structures	3,172	166	3,338	2,148	159	2,307	6,746	196	6,942
46. Electric transformer stations	636	18	654	383	123	506	1,111	133	1,244
47. Power transmission and distribution lines, trolley wires	6,092	419	6,511	6,316	791	7,107	5,885	1,052	6,937
48. Street lighting	110	55	165	258	40	298	262	59	321
Railway, telephone and telegraph	6,807	3,904	12,711	9,555	6,170	15,725	6,785	6,785	13,580
49. Railway tracks and roadbed	3,760	4,661	8,421	5,151	4,764	9,915	3,527	5,481	9,008
50. Signals and interlockers	243	360	603	490	329	819	289	383	672
51. Telegraph and telephone lines, underground and marine cables	2,804	883	3,687	3,914	1,077	4,991	2,979	921	3,900
Gas and oil facilities	437	468	905	779	485	1,264	724	430	1,154
52. Gas mains and services	5	2	7	—	4	4	—	2	2
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks	268	24	292	192	23	215	214	26	240
56. Gas storage tanks	22	—	22	—	—	—	—	—	—
57. Oil pipe lines	26	—	26	—	—	—	10	—	10
58. Gas pipe lines	—	—	—	—	—	—	—	—	—
59. Oil wells	—	—	—	—	—	—	—	—	—
60. Gas wells	—	—	—	25	2	27	—	2	2
61. Oil refinery — Processing units	116	442	558	562	456	1,018	500	400	900
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	3,649	2,161	5,810	5,935	1,987	7,922	6,028	2,063	8,091
63. Bridges, trestles, culverts, overpasses, viaducts	2,487	1,593	4,080	3,019	1,505	4,524	4,894	1,559	6,453
64. Tunnels and subways	—	7	7	6	7	13	3	7	10
65. Incinerators	—	1	1	—	1	1	—	1	1
66. Park systems, landscaping, sodding, etc.	153	128	281	15	98	113	13	99	112
67. Swimming pools, tennis courts, outdoor recreation facilities	136	11	147	235	55	290	162	56	218
68. Mine shafts and other below surface workings	431	21	452	2,258	4	2,262	567	10	577
69. Fences, snowsheds, signs, guard rails	204	246	450	205	167	372	199	179	378
70. Other engineering construction	238	154	392	197	150	347	190	152	342

TABLE 22. Quebec

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	1,511,822	378,847	1,890,669	1,568,426	385,076	1,953,502	1,904,008	407,797	2,311,805
Total building construction	989,995	250,604	1,240,599	1,017,049	257,380	1,274,429	1,153,864	270,321	1,424,185
Residential	451,800	146,200	598,000	493,900	155,100	649,000	550,100	166,300	716,400
Industrial	82,389	36,611	119,000	84,982	35,019	120,001	126,543	36,831	163,374
2. Factories, plants, workshops, food canneries	70,154	26,429	96,583	70,201	27,436	97,637	84,103	29,777	113,880
3. Mine and mine mill buildings	9,574	4,439	14,013	12,338	3,967	16,305	37,837	3,114	40,951
4. Railway stations, offices, roadway buildings	1,716	1,971	3,687	1,658	1,850	3,508	1,286	2,074	3,360
5. Railway shops, engine houses, water and fuel stations	945	1,772	2,717	785	1,766	2,551	3,317	1,866	5,183
Commercial	203,679	27,842	231,521	179,647	28,684	208,331	185,098	27,798	212,896
6. Warehouses, storehouses, refrigerated storage, etc.....	11,301	3,205	14,506	15,189	3,676	18,865	12,009	3,515	15,524
7. Grain elevators	12,152	1,022	13,174	9,692	1,353	11,045	4,190	1,231	5,421
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	6,931	3,116	10,047	15,573	3,656	19,229	30,085	3,235	33,320
9. Office buildings	120,143	10,860	131,003	81,786	10,966	92,752	83,674	10,646	94,320
10. Stores, retail and wholesale	34,807	6,643	41,450	35,434	5,715	41,149	39,165	6,317	45,482
11. Garages and service stations	5,281	1,922	7,203	5,410	2,049	7,459	6,779	1,869	8,648
12. Theatres, arenas, amusement and recreational buildings	12,611	795	13,406	16,185	870	17,055	9,080	673	9,753
13. Laundries and dry cleaning establishments	453	279	732	378	399	777	116	312	428
Institutional	189,337	21,373	210,710	199,339	19,816	219,155	224,992	20,969	245,961
14. Schools and other educational buildings	126,093	8,104	134,197	139,844	8,860	148,704	158,177	8,654	166,831
15. Churches and other religious buildings	17,014	2,788	19,802	11,801	2,795	14,596	12,361	3,196	15,557
16. Hospitals, sanatoria, clinics, first-aid stations, etc.....	38,353	5,741	44,094	35,115	6,490	41,605	44,556	7,367	51,923
17. Other institutional buildings	7,877	4,740	12,617	12,579	1,671	14,250	9,898	1,752	11,650
Other building construction	62,790	18,578	81,368	59,181	18,761	77,942	67,131	18,423	85,554
18. Farm buildings (excluding dwellings)	38,569	11,910	50,479	37,504	11,540	49,044	37,935	11,534	49,469
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	11,609	1,276	12,885	13,273	1,630	14,903	16,331	1,419	17,750
20. Aeroplane hangars	771	185	956	350	205	555	456	207	663
21. Passenger terminals, bus, boat or air	722	892	1,614	1,135	815	1,950	1,488	763	2,251
22. Armouries, barracks, drill halls, etc.	1,757	2,697	4,454	1,546	3,126	4,672	2,155	3,149	5,304
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	7,458	1,407	8,865	3,273	1,158	4,431	6,398	1,040	7,438
24. Other building construction	1,904	211	2,115	2,100	287	2,387	2,368	311	2,679
Total engineering construction	521,827	128,243	650,070	551,377	127,696	679,073	750,144	137,476	887,620
Marine construction	22,012	4,971	26,983	7,800	4,252	12,052	10,152	4,757	14,909
25. Docks, wharves, piers, breakwaters	11,617	2,323	13,940	6,707	2,764	9,471	9,065	2,934	11,999
26. Retaining walls, embankments, ripraping	793	692	1,485	484	30	514	626	60	686
27. Canals and waterways	6,230	502	6,732	77	200	277	106	396	502
28. Dredging and pile driving	3,146	1,065	4,211	79	900	979	118	1,006	1,124
29. Dyke construction	3	9	12	3	—	3	34	—	34
30. Logging booms	21	205	226	49	200	249	25	178	203
31. Other marine construction	202	175	377	401	158	559	178	183	361

TABLE 22. Quebec — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	149,093	47,005	196,098	180,569	47,637	228,206	278,475	48,615	327,090
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	115,658	17,106	132,764	158,195	39,478	197,673	248,619	41,206	289,825
33. Gravel or stone streets, highways, roads, parking lots, etc.	15,927	17,692	33,619	8,580	3,641	12,221	11,585	3,178	14,761
34. Dirt, clay or other streets, roads, parking lots, etc.	5,586	3,229	8,815	3,442	2,717	6,159	4,621	2,425	7,046
35. Grading, scraping, oiling, filling	2,693	5,739	8,632	1,076	208	1,284	2,252	186	2,438
36. Sidewalks, paths	6,089	3,003	9,092	6,699	1,367	8,066	7,660	1,394	9,054
37. Aerodromes, landing fields, runways, tarmac	2,940	236	3,176	2,577	226	2,803	3,738	228	3,968
Waterworks and sewage systems	40,575	12,832	53,407	34,245	8,587	42,832	58,007	12,490	70,497
38. Tile drains, drainage ditches, storm sewers	1,234	640	1,874	4,981	253	5,234	6,741	255	6,996
39. Water mains, hydrants and services	22,717	6,538	29,255	13,464	6,056	19,520	23,360	7,457	30,817
40. Sewage systems and connections	13,270	1,920	15,190	14,233	1,765	15,998	18,973	1,807	20,780
41. Pumping stations, water	3,065	1,205	4,270	837	442	1,279	6,299	2,948	9,247
42. Water storage tanks	289	2,529	2,818	730	71	801	2,634	23	2,657
Dams and irrigation	46,584	1,067	47,651	95,668	1,373	97,041	91,950	1,176	93,126
43. Dams and reservoirs	39,363	340	39,703	89,630	653	90,283	85,924	467	86,391
44. Irrigation and land reclamation projects	7,221	727	7,948	6,038	720	6,758	6,026	709	6,735
Electric power construction	139,654	10,845	150,599	105,952	12,693	118,645	144,225	13,854	158,079
45. Electric power generating plants, including water conveying and controlling structures	84,403	5,810	90,013	37,352	3,426	40,778	41,899	3,606	45,505
46. Electric transformer stations	12,570	2,222	14,792	25,243	3,818	29,061	27,869	3,631	31,500
47. Power transmission and distribution lines, trolley wires	41,289	2,802	44,091	42,487	4,944	47,411	73,182	6,256	79,416
48 Street lighting	1,392	311	1,703	890	505	1,395	1,295	361	1,656
Railway, telephone and telegraph	50,908	29,177	80,085	52,543	29,587	82,130	50,048	32,611	82,659
49. Railway tracks and roadbed	18,137	17,695	35,832	13,024	18,853	31,877	12,243	20,842	33,085
50. Signals and interlockers	1,239	1,591	2,830	1,044	1,394	2,438	2,079	1,562	3,641
51. Telegraph and telephone lines, underground and marine cables	31,532	9,891	41,423	38,475	9,340	47,815	35,726	10,207	45,933
Gas and oil facilities	19,967	9,336	29,303	13,166	10,199	23,365	13,270	10,018	23,288
52. Gas mains and services	8,415	920	9,335	5,122	950	6,072	3,765	1,033	4,798
53. Pumping stations, oil	24	36	60	13	47	80	5	45	50
54. Pumping stations, gas	143	—	143	6	—	6	17	—	17
55. Oil storage tanks	3,226	675	3,901	2,495	603	3,098	1,977	607	2,584
56. Gas storage tanks	239	28	267	15	36	51	5	36	41
57. Oil pipe lines	660	417	1,077	188	83	271	87	98	185
58. Gas pipe lines	142	18	160	130	23	153	98	22	120
59. Oil wells	27	—	27	50	—	50	60	—	60
60. Gas wells	27	—	27	49	—	49	60	—	60
61. Oil refinery — Processing units	7,064	7,242	14,306	5,098	8,457	13,555	7,198	8,177	15,373
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	53,034	12,910	65,944	61,434	13,368	74,802	104,017	13,955	117,972
63. Bridges, trestles, culverts, overpasses, viaducts	22,034	5,144	27,178	30,760	6,454	37,214	50,950	7,855	58,805
64. Tunnels and subways	2,639	109	2,748	7,806	54	7,860	30,758	52	30,808
65. Incinerators	28	315	343	32	284	316	41	290	331
66. Park systems, landscaping, sodding, etc.	3,648	1,175	4,823	4,138	1,345	5,483	5,279	1,433	6,712
67. Swimming pools, tennis courts, outdoor recreation facilities	4,093	818	4,911	4,301	714	5,015	4,908	729	5,637
68. Mine shafts and other below surface workings	7,469	614	8,083	6,995	683	7,678	4,805	732	5,537
69. Fences, snowsheds, signs, guard rails	4,941	1,807	6,748	3,189	1,126	4,315	3,252	1,158	4,410
70. Other engineering construction	8,182	2,928	11,110	4,213	2,708	6,921	4,026	1,706	5,732

TABLE 23. Ontario

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	1,935,700	512,595	2,448,295	2,044,826	540,142	2,584,968	2,078,050	565,520	2,643,570
Total building construction	1,300,112	326,197	1,626,309	1,372,224	339,406	1,711,630	1,381,552	351,836	1,733,388
Residential	562,300	181,600	743,900	599,000	192,600	791,600	667,000	201,800	868,800
Industrial	138,514	56,580	195,094	155,170	58,299	213,469	156,393	60,022	216,415
2. Factories, plants, workshops, food canneries	130,257	47,545	177,802	134,767	46,326	181,093	137,659	46,984	184,643
3. Mine and mine mill buildings	2,687	3,536	6,223	13,389	6,240	19,629	13,852	6,222	20,074
4. Railway stations, offices, roadway buildings	4,302	3,908	8,210	4,429	3,922	8,351	2,900	4,615	7,515
5. Railway shops, engine houses, water and fuel stations	1,268	1,591	2,859	2,585	1,811	4,396	1,982	2,201	4,183
Commercial	224,873	38,357	263,230	218,706	38,307	257,013	244,307	39,031	283,338
6. Warehouses, storehouses, refrigerated storage, etc.....	18,947	4,458	23,405	18,150	4,052	22,202	23,142	4,111	27,253
7. Grain elevators	3,736	576	4,312	2,942	607	3,549	102	510	612
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	13,792	3,599	17,391	12,685	2,916	15,601	12,087	3,165	15,252
9. Office buildings	98,199	13,867	112,066	100,886	15,977	116,863	120,538	16,017	136,555
10. Stores, retail and wholesale	61,166	9,333	70,499	61,563	8,518	70,081	61,018	8,786	69,804
11. Garages and service stations	11,730	4,540	16,270	8,312	4,550	12,862	16,467	4,730	21,197
12. Theatres, arenas, amusement and recreational buildings	17,177	1,682	18,859	13,234	1,321	14,555	10,603	1,332	11,935
13. Laundries and dry cleaning establishments	126	302	428	934	366	1,300	350	380	730
Institutional	286,614	18,294	304,908	320,951	17,398	338,349	231,505	18,033	249,538
14. Schools and other educational buildings	190,525	7,623	198,148	245,149	8,045	253,194	146,373	8,184	154,557
15. Churches and other religious buildings	15,966	2,734	18,700	12,324	1,626	13,950	13,539	1,759	15,298
16. Hospitals, sanatoria, clinics, first-aid stations, etc.....	74,456	6,628	81,084	59,585	7,372	66,957	65,781	7,731	73,512
17. Other institutional buildings	5,667	1,309	6,976	3,893	355	4,248	5,812	359	6,171
Other building construction	87,811	31,366	119,177	78,397	32,802	111,199	82,347	32,950	115,297
18. Farm buildings (excluding dwellings)	42,069	23,059	65,128	43,913	23,622	67,535	43,639	23,744	67,383
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	16,165	292	16,457	15,248	306	15,554	14,658	321	14,979
20. Aeroplane hangars	879	974	1,853	204	1,040	1,244	203	1,033	1,236
21. Passenger terminals, bus, boat or air	16,183	130	16,313	6,770	91	6,861	5,109	146	5,255
22. Armouries, barracks, drill halls, etc.	1,525	4,714	6,239	1,259	5,140	6,399	1,253	5,152	6,405
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	2,141	475	2,616	1,011	421	1,432	708	421	1,129
24. Other building construction	8,849	1,722	10,571	9,992	2,182	12,174	16,777	2,133	18,910
Total engineering construction	635,588	186,398	821,986	672,602	200,736	873,338	696,498	213,684	910,182
Marine construction	11,645	3,123	14,768	9,093	1,975	11,068	17,060	2,246	19,306
25. Docks, wharves, piers, breakwaters	8,496	1,116	9,612	6,504	851	7,355	6,352	877	7,229
26. Retaining walls, embankments, ripraping	512	61	573	857	54	911	136	56	192
27. Canals and waterways	1,481	1,032	2,513	1,310	659	1,969	10,078	911	10,989
28. Dredging and pile driving	1,052	393	1,445	353	327	680	213	281	494
29. Dyke construction	—	—	—	—	—	—	—	2	2
30. Logging booms	28	157	185	7	72	79	5	107	112
31. Other marine construction	76	364	440	62	12	74	276	12	288

TABLE 23. Ontario — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	183,173	56,679	239,852	185,313	72,338	257,851	211,077	74,812	285,889
32. Hard surfaced or paved streets, highways, parking lots, etc.	155,232	45,445	200,677	162,112	58,898	221,010	184,928	60,966	245,894
33. Gravel or stone streets, highways, roads, parking lots, etc.	14,782	2,375	17,157	11,573	9,098	20,671	14,158	9,667	23,825
34. Dirt, clay or other streets, roads, parking lots, etc.	1,735	1,490	3,225	1,879	1,602	3,481	1,827	1,468	3,295
35. Grading, scraping, oiling, filling	475	4,864	5,339	217	398	615	130	400	530
36. Sidewalks, paths	4,487	2,225	6,712	4,399	2,039	6,438	4,727	2,008	6,735
37. Aerodromes, landing fields, runways, tarmac	6,462	280	6,742	5,333	303	5,636	5,307	303	5,610
Waterworks and sewage systems	75,859	13,473	89,332	86,899	11,043	97,942	92,690	11,094	103,784
38. Tile drains, drainage ditches, storm sewers	1,176	1,079	2,255	829	156	985	619	133	752
39. Water mains, hydrants and services	16,610	5,635	22,245	15,159	5,251	20,410	24,770	5,336	30,106
40. Sewage systems and connections	56,623	5,741	62,364	65,874	4,593	70,467	59,196	4,761	63,957
41. Pumping stations, water	1,053	964	2,017	4,848	943	5,791	6,780	772	7,552
42. Water storage tanks	397	54	451	189	100	289	1,325	92	1,417
Dams and irrigation	3,471	1,722	5,193	6,824	1,721	8,545	7,105	1,584	8,689
43. Dams and reservoirs	1,079	444	1,523	4,436	409	4,845	4,355	265	4,620
44. Irrigation and land reclamation projects	2,392	1,278	3,670	2,388	1,312	3,700	2,750	1,319	4,069
Electric power construction	93,146	28,525	122,671	113,011	33,463	146,474	109,685	36,033	145,718
45-Electric power generating plants, including water conveying and controlling structures	34,351	5,951	40,302	34,040	6,281	40,321	34,218	6,809	41,027
46. Electric transformer stations	6,325	2,522	8,847	16,269	2,529	18,798	13,545	2,759	16,304
47. Power transmission and distribution lines, trolley wires	47,619	17,692	65,311	58,805	21,629	80,434	57,544	23,312	80,856
48. Street lighting	4,851	3,360	8,211	3,897	3,024	6,921	4,378	3,153	7,531
Railway, telephone and telegraph	81,828	50,856	132,684	84,778	49,441	134,219	73,837	56,559	130,196
49. Railway tracks and roadbed	32,960	32,675	65,635	36,158	32,799	68,957	26,426	38,063	64,509
50. Signals and interlockers	2,384	2,793	5,177	3,207	2,431	5,638	2,360	2,824	5,184
51. Telegraph and telephone lines, underground and marine cables	46,484	15,388	61,872	45,413	14,211	59,624	44,851	15,652	60,503
Gas and oil facilities	83,684	14,893	98,577	83,909	16,217	100,128	65,075	15,847	80,922
52. Gas mains and services	31,163	2,904	34,067	36,027	2,464	38,491	27,117	2,447	29,564
53. Pumping stations, oil	349	178	527	883	171	1,054	98	183	281
54. Pumping stations, gas	14,361	50	14,411	19,875	349	20,224	21,962	359	22,321
55. Oil storage tanks	4,008	891	4,899	2,519	923	3,442	1,940	887	2,827
56. Gas storage tanks	299	—	299	22	—	22	175	—	175
57. Oil pipe lines	1,537	692	2,229	2,391	642	3,033	191	650	841
58. Gas pipe lines	1,239	355	1,594	3,934	463	4,397	9,068	448	8,516
59. Oil wells	793	120	913	950	206	1,156	574	207	781
80. Gas wells	559	152	711	301	170	471	470	161	631
61. Oil refinery — Processing units	29,376	9,551	38,927	17,007	10,829	27,836	3,480	10,505	13,985
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	102,782	16,127	118,909	102,575	14,538	117,113	120,169	15,509	135,678
63. Bridges, trestles, culverts, overpasses, viaducts	66,432	6,247	72,679	65,717	8,070	73,787	63,316	8,876	72,192
64. Tunnels and subways	14,407	22	14,429	20,971	48	21,019	41,934	18	41,952
65. Incinerators	68	4	72	58	8	66	15	4	19
66. Park systems, landscaping, sodding, etc.	1,261	1,950	3,211	781	1,212	1,993	903	1,151	2,054
67. Swimming pools, tennis courts, outdoor recreation facilities....	186	526	712	548	523	1,071	718	531	1,249
68. Mine shafts and other below surface workings	13,048	876	13,924	7,728	411	8,139	5,976	481	6,457
69. Fences, snowsheds, signs, guard rails	3,893	3,624	7,517	3,151	2,075	5,226	3,001	2,176	5,177
70. Other engineering construction	3,487	2,878	6,365	3,621	2,191	5,812	4,306	2,272	6,578

TABLE 24. Manitoba

TABLE 24. Manitoba -- Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	31,884	8,400	40,284	34,168	7,027	41,195	37,557	6,739	44,296
32. Hard surfaced or paved streets, highways, parking lots, etc.	16,288	6,071	22,359	18,233	4,740	22,973	22,077	4,532	26,609
33. Gravel or stone streets, highways, roads, parking lots, etc.	4,524	1,049	5,573	4,485	1,023	5,508	4,432	975	5,407
34. Dirt, clay or other streets, roads, parking lots, etc.	181	118	299	208	112	320	210	107	317
35. Grading, scraping, oiling, filling	7,600	893	8,493	8,464	831	9,295	8,542	802	9,344
36. Sidewalks, paths	179	181	360	411	230	641	439	233	672
37. Aerodromes, landing fields, runways, tarmac	3,112	88	3,200	2,367	91	2,458	1,857	90	1,947
Waterworks and sewage systems	8,025	1,964	9,989	21,575	2,405	23,980	21,463	2,649	24,112
38. Tile drains, drainage ditches, storm sewers	283	112	395	1,661	481	2,142	1,656	494	2,150
39. Water mains, hydrants and services	2,874	1,389	4,263	4,344	1,359	5,703	3,545	1,468	5,013
40. Sewage systems and connections	4,025	385	4,410	11,731	501	12,232	14,213	561	14,774
41. Pumping stations, water	482	77	559	848	60	908	1,217	74	1,291
42. Water storage tanks	361	1	362	2,991	4	2,995	832	52	884
Dams and irrigation	1,439	320	1,759	3,017	332	3,349	5,009	384	5,393
43. Dams and reservoirs	684	69	753	2,237	78	2,315	3,979	70	4,049
44. Irrigation and land reclamation projects	755	251	1,006	780	254	1,034	1,030	314	1,344
Electric power construction	38,932	1,797	40,749	53,624	2,264	55,888	26,870	2,306	29,176
45. Electric power generating plants, including water conveying and controlling structures	25,327	381	25,708	28,060	505	28,565	10,147	521	10,668
46. Electric transformer stations	820	591	1,411	2,018	93	2,111	1,562	90	1,574
47. Power transmission and distribution lines, trolley wires	11,819	391	12,210	22,044	1,023	23,067	13,467	1,006	14,493
48. Street lighting	986	434	1,420	1,502	643	2,145	1,674	689	2,363
Railway, telephone and telegraph	16,447	15,661	32,108	20,489	16,693	37,182	18,089	18,350	36,439
49. Railway tracks and roadbed	9,784	11,321	21,105	12,288	11,652	23,940	9,143	13,003	22,146
50. Signals and interlockers	531	632	1,163	1,285	772	2,057	874	885	1,759
51. Telegraph and telephone lines, underground and marine cables	6,132	3,708	9,840	6,916	4,269	11,185	8,072	4,462	12,534
Gas and oil facilities	14,414	1,808	16,222	27,289	1,984	29,273	21,764	1,468	23,232
52. Gas mains and services	5,659	439	6,098	4,434	—	4,434	5,224	—	5,224
53. Pumping stations, oil	77	165	262	86	229	315	312	232	544
54. Pumping stations, gas	4,361	—	4,361	1,747	—	1,747	2,076	—	2,076
55. Oil storage tanks	184	89	273	448	85	533	401	114	515
56. Gas storage tanks	84	—	84	1,593	—	1,593	452	—	452
57. Oil pipe lines	545	124	669	4,473	87	4,560	5,705	88	5,793
58. Gas pipe lines	2,138	—	2,138	11,326	—	11,326	6,437	—	6,437
59. Oil wells	282	186	468	1,364	302	1,666	576	331	907
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery—Processing units	1,084	785	1,869	1,818	1,281	3,099	581	703	1,284
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	14,492	5,158	19,650	15,871	3,764	19,635	15,275	4,063	19,338
63. Bridges, trestles, culverts, overpasses, viaducts	7,507	2,221	9,728	8,196	2,214	10,410	9,013	2,261	11,274
64. Tunnels and subways	—	—	—	20	—	20	16	—	16
65. Incinerators	1	5	6	1	5	6	1	5	6
66. Park systems, landscaping, sodding, etc.	473	128	601	354	88	442	264	87	351
67. Swimming pools, tennis courts, outdoor recreation facilities ...	306	373	679	139	32	171	582	36	618
68. Mine shafts and other below surface workings	4,483	488	4,971	5,360	323	5,683	3,788	504	4,292
69. Fences, snowsheds, signs, guard rails	1,024	577	1,601	1,050	520	1,570	1,110	588	1,696
70. Other engineering construction	698	1,366	2,064	751	582	1,333	501	582	1,083

TABLE 25. Saskatchewan

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
Total value of construction	332,258	84,726	416,984	353,576	86,614	440,190	363,910	90,794	454,704
Total building construction	172,630	46,479	219,109	182,570	50,012	232,582	193,908	50,063	243,971
Residential	74,900	24,100	99,000	73,100	25,600	98,700	81,500	24,600	106,100
Industrial	5,086	2,814	7,900	9,196	3,277	12,473	12,103	3,585	15,688
2. Factories, plants, workshops, food canneries	2,589	1,291	3,880	5,117	1,464	6,581	3,299	1,492	4,791
3. Mine and mine mill buildings	620	134	754	2,568	308	2,876	7,710	327	8,037
4. Railway stations, offices, roadway buildings	1,611	1,133	2,744	1,064	1,121	2,185	769	1,303	2,072
5. Railway shops, engine houses, water and fuel stations	266	256	522	447	384	831	325	463	788
Commercial	23,578	6,248	29,827	27,085	6,344	33,429	28,247	6,013	34,260
6. Warehouses, storehouses, refrigerated storage, etc.	1,958	593	2,551	1,559	659	2,218	2,593	625	3,218
7. Grain elevators	4,448	1,856	6,304	3,174	2,162	5,336	2,814	2,154	4,968
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	1,845	449	2,294	3,088	653	3,741	4,017	316	4,333
9. Office buildings	6,389	1,744	10,133	12,490	1,266	13,756	9,195	1,359	10,554
10. Stores, retail and wholesale	3,556	1,128	4,684	4,563	1,055	5,618	5,565	1,087	6,652
11. Garages and service stations	949	250	1,199	1,045	277	1,322	2,361	267	2,628
12. Theatres, arenas, amusement and recreational buildings	2,424	204	2,628	1,160	230	1,390	1,519	183	1,702
13. Laundries and dry cleaning establishments	10	24	34	6	42	48	183	22	205
Institutional	35,553	4,237	39,790	38,487	4,735	43,222	37,714	4,732	42,446
14. Schools and other educational buildings	22,119	2,709	24,828	21,551	3,272	24,823	23,776	3,108	26,884
15. Churches and other religious buildings	3,924	159	4,083	5,397	227	5,624	3,346	162	3,508
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	7,636	1,063	8,699	9,707	931	10,638	8,615	1,085	9,700
17. Other institutional buildings	1,874	306	2,180	1,832	305	2,137	1,977	377	2,354
Other building construction	33,512	9,080	42,592	34,702	10,056	44,758	34,344	11,133	45,477
18. Farm buildings (excluding dwellings)	21,501	8,416	29,917	23,145	9,153	32,298	25,702	10,260	35,962
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	10,860	63	10,943	10,323	143	10,466	7,123	121	7,244
20. Aeroplane hangars	—	66	66	40	68	108	—	74	74
21. Passenger terminals, bus, boat or air	31	14	45	25	16	41	20	20	40
22. Armouries, barracks, drill halls, etc.	560	304	864	454	299	753	364	325	689
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	95	63	158	629	191	820	326	64	390
24. Other building construction	465	134	599	86	186	272	809	269	1,078
Total engineering construction	159,628	38,247	197,875	171,006	36,602	207,608	170,002	40,731	210,733
Marine construction	311	68	379	319	100	419	222	115	337
25. Docks, wharves, piers, breakwaters	307	66	373	308	97	405	219	112	331
26. Retaining walls, embankments, ripraping	—	—	—	—	—	—	—	—	—
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	—	—	—	—	—	—	—	—	—
29. Dyke construction	4	—	4	3	—	3	3	—	3
30. Logging booms	—	—	—	—	—	—	—	—	—
31. Other marine construction	—	2	2	8	3	11	—	3	3

TABLE 23. Saskatchewan — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	30,232	10,961	41,193	32,015	10,380	42,395	34,558	11,768	46,326
32. Hard surfaced or paved streets, highways, parking lots, etc....	20,013	7,416	27,429	22,851	6,450	29,301	25,217	7,293	32,510
33. Gravel or stone streets, highways, roads, parking lots, etc.	5,149	3,101	8,250	3,327	3,382	6,709	4,474	3,867	8,341
34. Dirt, clay or other streets, roads, parking lots, etc.	176	97	273	1,570	374	1,944	1,156	360	1,516
35. Grading, scraping, oiling, filling	2	20	22	1	23	24	2	20	22
36. Sidewalks, paths	2,047	306	2,353	2,017	123	2,140	1,838	200	2,038
37. Aerodromes, landing fields, runways, tarmac	2,845	21	2,866	2,249	28	2,277	1,871	28	1,899
Waterworks and sewage systems	6,311	1,562	7,873	4,992	1,524	6,516	6,997	1,602	8,599
38. Tile drains, drainage ditches, storm sewers	—	33	33	26	54	80	482	42	524
39. Water mains, hydrants and services	1,173	806	1,979	1,753	674	2,427	2,794	640	3,434
40. Sewage systems and connections	5,045	590	5,635	2,970	758	3,728	3,161	872	4,033
41. Pumping stations, water	93	126	219	143	36	179	560	43	803
42. Water storage tanks	—	7	7	100	2	102	—	5	5
Dams and irrigation	20,987	1,689	22,676	23,396	1,657	25,053	20,387	1,808	22,195
43. Dams and reservoirs.....	19,845	1,096	20,941	19,104	1,000	20,104	14,904	1,071	15,975
44. Irrigation and land reclamation projects.....	1,142	593	1,735	4,292	657	4,949	5,483	737	6,220
Electric power construction	36,747	2,590	39,337	23,338	2,023	25,361	23,228	2,493	25,721
45. Electric power generating plants, including water conveying and controlling structures.....	20,602	519	21,121	8,965	495	9,460	5,428	485	5,913
46. Electric transformer stations	2,818	466	3,284	1,367	390	1,757	4,086	812	4,898
47. Power transmission and distribution lines, trolley wires	12,761	1,316	14,077	12,451	1,054	13,505	13,141	1,113	14,254
48. Street lighting.....	566	289	855	555	84	639	573	83	656
Railway, telephone and telegraph	12,271	12,642	24,913	13,205	12,439	25,644	11,303	14,364	25,667
49. Railway tracks and roadbed	7,690	10,584	18,274	8,628	9,964	18,592	6,374	11,456	17,830
50. Signals and interlockers	995	535	1,530	686	679	1,385	509	769	1,296
51. Telegraph and telephone lines, underground and marine cables	3,586	1,523	5,109	3,891	1,796	5,687	4,420	2,119	6,539
Gas and oil facilities.....	45,110	5,746	50,856	60,352	5,749	66,101	50,887	5,538	56,425
52. Gas mains and services	4,308	598	4,906	3,969	57	4,026	4,729	60	4,789
53. Pumping stations, oil	143	259	402	256	302	558	257	308	565
54. Pumping stations, gas	4,513	1	4,514	4,913	—	4,913	1,011	—	1,011
55. Oil storage tanks	654	168	822	249	159	408	491	257	748
56. Gas storage tanks	43	—	43	65	—	65	—	—	—
57. Oil pipe lines	2,346	365	2,711	1,426	311	1,737	1,682	314	1,996
58. Gas pipe lines	9,138	15	9,153	19,013	17	19,030	16,754	20	16,774
59. Oil wells	22,513	2,718	25,231	29,474	3,164	32,638	24,980	3,064	28,044
60. Gas wells	476	—	476	41	—	41	108	—	108
61. Oil refinery — Processing units	976	1,622	2,598	763	1,732	2,495	875	1,515	2,390
62. Natural gas cleaning plants	—	—	—	183	7	190	—	—	—
Other engineering construction.....	7,659	2,989	10,648	13,389	2,730	16,119	22,420	3,043	25,463
63. Bridges, trestles, culverts, overpasses, viaducts	2,220	1,042	3,262	2,157	981	3,138	3,259	1,060	4,319
64. Tunnels and subways	—	—	—	3	—	3	3	—	3
65. Incinerators	12	110	122	—	4	4	—	4	4
66. Park systems, landscaping, sodding, etc.	66	123	189	139	157	296	130	145	275
67. Swimming pools, tennis courts, outdoor recreation facilities	—	24	24	1,168	322	1,490	1,039	408	1,447
68. Mine shafts and other below surface workings	2,839	276	3,115	7,553	221	7,774	15,973	204	16,177
69. Fences, snowsheds, signs, guard rails	1,537	817	2,354	1,600	823	2,423	1,667	973	2,640
70. Other engineering construction	985	597	1,582	789	222	991	349	249	598

TABLE 26. Alberta

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	652,989	167,220	820,209	694,105	158,912	853,017	692,427	160,465	852,892
Total building construction	370,909	92,459	463,368	347,608	93,959	441,567	353,606	93,323	446,929
Residential	173,900	55,900	229,800	162,500	59,300	221,800	180,800	54,600	235,400
Industrial	13,755	5,815	19,570	14,869	5,350	20,219	16,242	5,705	21,947
2. Factories, plants, workshops, food canneries	11,770	4,365	16,135	12,794	3,750	16,544	15,073	3,895	18,968
3. Mine and mine mill buildings	709	44	753	376	43	419	25	45	70
4. Railway stations, offices, roadway buildings	1,041	1,158	2,199	1,316	1,126	2,442	828	1,270	2,098
5. Railway shops, engine houses, water and fuel stations	235	248	483	383	431	814	316	495	811
Commercial	46,533	12,146	58,679	53,586	10,422	64,008	50,004	11,792	61,796
6. Warehouses, storehouses, refrigerated storage, etc.	5,295	1,126	6,421	4,744	1,059	5,803	3,679	1,164	4,843
7. Grain elevators	2,500	982	3,482	1,512	1,219	2,731	1,551	1,224	2,775
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	3,052	1,043	4,095	7,360	1,053	8,413	8,216	1,202	9,418
9. Office buildings	19,806	5,316	25,122	18,589	3,977	22,566	16,412	4,820	21,232
10. Stores, retail and wholesale	8,909	2,198	11,107	10,218	2,009	12,227	11,697	2,074	13,771
11. Garages and service stations	1,314	618	1,932	4,406	613	5,019	4,207	701	4,908
12. Theatres, arenas, amusement and recreational buildings	5,298	798	6,096	6,437	404	6,841	4,058	533	4,591
13. Laundries and dry cleaning establishments	359	65	424	320	88	408	184	74	258
Institutional	85,216	6,577	91,793	62,026	6,153	68,179	51,617	7,279	58,896
14. Schools and other educational buildings	63,672	4,068	67,740	44,608	3,491	48,099	34,156	3,994	38,150
15. Churches and other religious buildings	2,436	77	2,513	1,884	161	2,045	1,789	154	1,943
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	14,528	1,517	16,045	12,339	2,024	14,363	13,189	2,518	15,707
17. Other institutional buildings	4,530	915	5,495	3,195	477	3,672	2,483	613	3,096
Other building construction	51,805	12,021	63,826	54,627	12,734	67,361	54,943	13,947	68,890
18. Farm buildings (excluding dwellings)	37,591	10,048	47,639	38,113	10,195	48,308	41,382	11,074	52,456
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	5,264	307	5,571	6,249	509	6,758	3,778	539	4,317
20. Aeroplane hangars	69	306	375	65	310	375	57	321	378
21. Passenger terminals, bus, boat or air	6,400	50	6,450	6,063	122	6,185	5,314	22	5,336
22. Armouries, barracks, drill halls, etc.	1,057	729	1,786	997	720	1,717	877	747	1,624
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	443	188	631	300	125	425	174	114	288
24. Other building construction	981	393	1,374	2,840	753	3,593	3,361	1,130	4,491
Total engineering construction	282,080	74,761	356,841	346,497	64,933	411,450	338,821	67,142	405,963
Marine construction	82	353	435	770	405	1,175	725	413	1,138
25. Docks, wharves, piers, breakwaters	65	65	130	127	113	240	93	111	204
26. Retaining walls, embankments, ripraping	16	25	41	15	25	40	632	26	658
27. Canals and waterways	—	—	—	628	—	628	—	—	—
28. Dredging and pile driving	—	263	263	—	267	267	—	276	276
29. Dyke construction	—	—	—	—	—	—	—	—	—
30. Logging booms	—	—	—	—	—	—	—	—	—
31. Other marine construction	1	—	1	—	—	—	—	—	—

TABLE 26. Alberta — Concluded

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Road, highway and aerodrome construction	65,298	29,080	94,378	66,108	20,742	86,850	66,521	20,864	87,385
32. Hard surfaced or paved streets, highways, parking lots, etc.	41,583	20,734	62,317	36,969	11,022	47,991	38,871	11,157	50,028
33. Gravel or stone streets, highways, roads, parking lots, etc.	11,805	7,440	19,245	14,821	8,039	22,860	13,906	8,000	21,906
34. Dirt, clay or other streets, roads, parking lots, etc.	2,881	402	3,283	337	257	594	338	243	581
35. Grading, scraping, oiling, filling	3,557	14	3,571	9,010	880	9,890	8,598	874	9,472
36. Sidewalks, paths	3,261	399	3,660	2,877	445	3,322	2,880	482	3,362
37. Aerodromes, landing fields, runways, tarmac	2,211	91	2,302	2,094	99	2,193	1,928	108	2,036
Waterworks and sewage systems	14,368	3,841	18,209	12,824	3,011	15,835	15,637	3,447	19,084
38. Tile drains, drainage ditches, storm sewers	54	68	122	259	151	410	599	71	670
39. Water mains, hydrants and services	5,229	1,870	7,099	4,615	1,670	6,285	5,360	1,895	7,255
40. Sewage systems and connections	8,836	1,779	10,615	7,775	1,106	8,881	8,499	1,344	9,843
41. Pumping stations, water	246	120	366	175	77	252	1,179	120	1,299
42. Water storage tanks	3	4	7	—	7	7	—	17	17
Dams and irrigation	7,940	1,206	9,146	6,533	1,231	7,764	6,119	1,312	7,431
43. Dams and reservoirs	3,806	295	4,101	3,287	290	3,577	3,067	303	3,370
44. Irrigation and land reclamation projects	4,134	911	5,045	3,246	941	4,187	3,052	1,009	4,061
Electric power construction	18,792	3,424	22,216	17,731	3,282	21,013	22,154	3,191	25,345
45. Electric power generating plants, including water conveying and controlling structures	5,436	486	5,922	6,119	504	6,623	6,974	568	7,542
46. Electric transformer stations	1,456	237	1,693	1,289	252	1,541	3,149	229	3,378
47. Power transmission and distribution lines, trolley wires	8,941	2,175	11,116	7,720	2,070	9,790	9,275	1,889	11,164
48. Street lighting	2,959	526	3,485	2,603	456	3,059	2,756	505	3,261
Railway, telephone and telegraph	18,360	14,101	32,461	23,484	14,382	37,866	17,667	15,721	33,388
49. Railway tracks and roadbed	11,581	10,900	22,481	14,135	10,692	24,827	10,055	11,896	21,951
50. Signals and interlockers	413	618	1,031	1,095	649	1,744	579	736	1,315
51. Telegraph and telephone lines, underground and marine cables	6,366	2,583	8,949	8,254	3,041	11,295	7,033	3,089	10,122
Gas and oil facilities	144,735	14,952	159,687	205,897	15,144	220,841	194,782	15,253	210,035
52. Gas mains and services	7,913	874	8,787	3,977	851	4,828	3,190	917	4,107
53. Pumping stations, oil	1,141	319	1,460	2,228	437	2,665	714	436	1,150
54. Pumping stations, gas	325	109	434	267	29	296	6	33	39
55. Oil storage tanks	3,041	649	3,690	1,512	303	1,815	1,329	338	1,667
56. Gas storage tanks	54	—	54	938	—	936	274	—	274
57. Oil pipe lines	7,359	473	7,832	8,778	455	9,233	4,575	445	5,020
58. Gas pipe lines	6,915	379	7,294	20,238	310	20,548	16,719	354	17,073
59. Oil wells	82,285	5,439	87,724	114,088	6,712	120,800	124,097	6,709	130,806
60. Gas wells	16,541	436	16,977	16,049	495	16,544	19,223	604	19,827
61. Oil refinery — Processing units	1,526	3,347	4,873	885	2,921	3,806	1,853	3,010	4,863
62. Natural gas cleaning plants	17,635	2,927	20,562	36,739	2,631	39,370	22,802	2,407	25,209
Other engineering construction	12,505	7,804	20,309	13,350	6,756	20,106	15,216	6,941	22,157
63. Bridges, trestles, culverts, overpasses, viaducts	7,142	4,286	11,428	8,495	4,641	13,136	9,396	4,752	14,148
64. Tunnels and subways	228	—	228	23	—	23	12	—	12
65. Incinerators	24	—	24	23	—	23	21	—	21
66. Park systems, landscaping, sodding, etc.	256	650	906	286	459	725	307	479	786
67. Swimming pools, tennis courts, outdoor recreation facilities ...	278	163	439	260	165	425	229	171	400
68. Mine shafts and other below surface workings	8	—	8	197	—	197	25	—	25
69. Fences, snowsheds, signs, guard rails	2,380	902	3,282	2,381	802	3,183	2,485	896	3,381
70. Other engineering construction	2,191	1,803	3,994	1,705	689	2,394	2,741	643	3,384

TABLE 27. British Columbia

Type of structure	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Total value of construction	597,736	162,040	759,776	673,107	157,387	830,494	797,236	171,643	968,879
Total building construction	327,293	96,625	423,918	377,887	91,492	469,379	415,504	105,694	521,198
Residential	161,800	52,300	214,100	207,700	55,500	263,200	231,200	69,900	301,100
Industrial	37,997	13,024	51,021	38,829	12,406	51,235	48,118	12,456	60,574
2. Factories, plants, workshops, food canneries	30,525	11,082	41,607	35,478	10,436	45,914	41,519	10,264	51,783
3. Mine and mine mill buildings	6,222	346	6,568	1,564	282	1,846	4,826	288	5,114
4. Railway stations, offices, roadway buildings	940	1,262	2,202	1,226	1,290	2,516	1,395	1,438	2,833
5. Railway shops, engine houses, water and fuel stations	310	334	644	561	398	959	378	466	844
Commercial	45,780	15,066	60,846	56,800	12,365	69,165	58,525	12,110	70,635
6. Warehouses, storehouses, refrigerated storage, etc.	3,876	2,000	5,876	8,947	2,196	11,143	5,818	2,110	7,928
7. Grain elevators	78	93	171	34	132	166	74	115	189
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	6,236	1,665	7,901	6,281	1,094	7,375	5,250	1,064	6,314
9. Office buildings	14,691	4,958	19,649	13,758	2,679	16,437	19,619	2,847	22,466
10. Stores, retail and wholesale	12,730	2,558	15,288	14,566	2,251	16,817	16,131	2,385	18,516
11. Garages and service stations	2,337	1,143	3,460	6,786	1,177	7,963	6,878	1,130	8,008
12. Theatres, arenas, amusement and recreational buildings	5,739	2,283	8,022	5,959	2,462	8,421	4,691	2,379	7,070
13. Laundries and dry cleaning establishments	93	366	459	469	374	843	64	80	144
Institutional	57,925	9,996	67,921	53,224	4,851	58,075	55,527	4,893	60,420
14. Schools and other educational buildings	38,454	5,230	43,684	36,371	2,884	39,255	36,206	3,407	39,613
15. Churches and other religious buildings	3,980	203	4,183	3,856	701	4,557	3,361	197	3,558
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	11,505	2,485	13,990	11,567	1,124	12,691	14,120	1,109	15,229
17. Other institutional buildings	3,986	2,078	6,064	1,430	142	1,572	1,840	180	2,020
Other building construction	23,791	8,239	30,030	21,334	6,370	27,704	22,134	6,335	28,469
18. Farm buildings (excluding dwellings)	10,233	2,701	12,934	9,590	2,531	12,121	10,798	2,846	13,644
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	6,486	259	6,745	5,175	275	5,450	3,339	258	3,597
20. Aeroplane hangars	109	90	199	94	263	357	106	177	283
21. Passenger terminals, bus, boat or air	814	275	1,089	684	119	803	736	169	905
22. Armouries, barracks, drill halls, etc.	2,177	1,059	3,236	1,849	1,082	2,931	1,985	1,119	3,104
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	2,293	1,242	3,535	2,493	1,387	3,880	2,067	1,133	3,200
24. Other building construction	1,679	813	2,292	1,449	713	2,162	3,103	633	3,736
Total engineering construction	270,443	65,415	335,858	295,220	65,895	361,115	381,732	65,949	447,681
Marine construction	5,423	2,984	8,407	6,176	3,331	9,507	11,061	3,167	14,228
25. Docks, wharves, piers, breakwaters	3,593	1,680	5,273	4,297	1,872	6,169	7,327	1,935	9,262
26. Retaining walls, embankments, ripraping	112	32	144	50	253	303	958	4	962
27. Canals and waterways	119	49	166	121	46	167	127	74	201
28. Dredging and pile driving	585	1,005	1,590	643	973	1,616	1,645	909	2,554
29. Dyke construction	2	7	9	—	3	3	—	74	74
30. Logging booms	275	186	461	234	102	336	210	115	325
31. Other marine construction	737	25	762	831	82	913	794	56	850

TABLE 31. British Columbia - Concluded

Type of structures	1962			1963			1964		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Road, highway and aerodrome construction	84,352	23,057	107,409	95,411	22,777	118,188	84,002	21,306	105,308
38. Hard surfaced or paved streets, highways, parking lots, etc.	21,235	6,578	27,813	25,251	5,776	31,027	22,892	5,866	28,758
39. Gravel or stone streets, highways, roads, parking lots, etc.....	43,173	3,086	46,259	49,544	13,026	62,570	41,281	11,548	52,829
40. Dirt, clay or other streets, roads, parking lots, etc.	12,065	12,355	24,420	8,026	2,919	10,945	8,638	2,835	11,473
41. Grading, scraping, oiling, filling	2,285	352	2,637	7,655	368	8,023	6,311	372	6,683
42. Sidewalks, paths	2,320	629	2,949	2,171	634	2,805	1,904	629	2,533
43. Abandoned, landing fields, runways, turnoffs	3,274	57	3,331	2,764	54	2,818	2,976	56	3,032
Waterworks and sewage systems	29,774	4,430	34,204	23,036	6,317	29,353	25,668	6,398	32,066
38. Tile drains, drainage ditches, storm sewers	117	355	472	141	330	471	134	339	473
39. Water mains, hydrants and services	11,342	2,413	13,755	6,940	2,497	9,437	8,811	2,488	11,299
40. Sewage systems and connections	17,335	1,436	18,771	14,628	3,316	17,944	15,549	3,419	18,968
41. Pumping stations, water	857	155	1,012	1,189	109	1,288	1,076	106	1,182
42. Water storage tanks	123	71	194	138	65	203	98	46	144
Dams and irrigation	5,341	292	5,633	30,217	278	30,496	41,878	280	42,158
43. Dams and reservoirs	4,604	124	4,728	28,923	120	29,043	40,127	98	40,225
44. Irrigation and land reclamation projects	737	168	905	1,294	159	1,453	1,751	182	1,933
Electric power construction	37,273	7,007	44,280	34,850	5,928	40,578	49,295	6,267	55,562
45. Electric power generating plants, including water conveying and controlling structures	19,273	1,844	21,117	4,321	1,263	5,584	4,879	1,278	6,157
46. Electric transformer stations	242	292	534	634	141	775	1,046	185	1,231
47. Power transmission and distribution lines, trolley wires	15,931	3,942	19,873	26,074	3,603	31,677	42,016	3,842	45,858
48. Street lighting	1,827	929	2,756	1,621	921	2,542	1,354	962	2,316
Railway, telephone and telegraph	23,184	16,491	39,675	29,886	16,525	46,411	38,104	18,064	56,168
49. Railway tracks and roadbed	14,498	12,171	26,669	19,485	12,845	32,330	25,458	13,364	39,322
50. Signals and interlockers	500	646	1,146	777	743	1,520	988	823	1,811
51. Telegraph and telephone lines, underground and aerial cables	8,186	3,674	11,860	9,624	2,937	12,561	11,658	3,377	15,035
Gas and oil facilities	44,969	4,091	49,060	38,201	4,120	42,321	85,567	3,765	89,332
52. Gas mains and services	4,393	287	4,680	5,519	327	5,846	6,340	361	6,701
53. Pumping stations, oil	237	106	343	192	206	398	59	136	195
54. Pumping stations, gas	1,460	100	1,560	414	1	415	639	-	639
55. Oil storage tanks	1,207	556	1,763	1,808	496	2,304	1,548	346	1,894
56. Gas storage tanks	138	-	138	10	3	13	20	2	22
57. Oil pipe lines	1,875	448	2,323	1,224	419	1,643	287	339	626
58. Gas pipe lines	3,162	244	3,406	210	155	365	41,029	162	41,191
59. Oil wells	23,440	264	23,704	17,425	513	17,938	14,838	496	15,334
60. Gas wells	7,046	20	7,066	10,120	50	10,170	9,491	23	9,514
61. Oil refinery - Processing units	1,634	2,066	3,700	1,125	1,950	3,075	953	1,900	2,853
62. Natural gas cleaning plant	377	-	377	154	-	154	10,363	-	10,363
Other engineering construction	40,127	7,063	47,190	37,643	6,618	44,261	46,157	6,702	52,859
63. Bridges, tresties, culverts, overpasses, viaducts	29,338	3,564	32,902	25,415	3,813	29,228	20,163	3,625	23,788
64. Tunnels and subways	152	-	152	98	-	98	85	-	85
65. Incinerators	23	-	23	27	4	31	21	4	25
66. Park systems, landscaping, sodding, etc.	330	282	612	348	279	627	492	268	760
67. Swimming pools, tennis courts, outdoor recreation facilities	300	55	355	670	418	1,088	415	455	870
68. Mine shafts and other below surface workings	2,359	197	2,556	3,438	66	3,504	6,181	169	6,350
69. Fences, snowsheds, signs, guard rails	1,022	1,060	2,082	950	642	1,592	973	735	1,708
70. Other engineering construction	6,603	1,905	8,508	6,697	1,396	8,093	17,827	1,446	19,273

STATISTICAL NOTES

1. Definitions

The purpose of this report is to provide statistics on all new and repair construction undertaken in Canada. By definition, therefore, the figures indicating the value of construction work performed include work done by the labour forces of industrial concerns, institutions, governments and individuals, in addition to that done by general, trade and subcontractors. The figures shown for the value of construction include all costs incurred, directly and indirectly, by the firm paying for the erection of a new structure. For instance, if all of the work put in place is done by a contractor, other cost items such as legal, architectural and engineering fees are included together with payments made to the contractor. Payments received by a contractor generally cover salaries and wages paid, cost of materials used and miscellaneous costs, such as insur-

ance, fuel, office expenses and taxes plus net profit, if any. In terms of cost, the essential difference between work done by contract and that done by the labour force of the firm paying for the work would be the net profit realized by the contractor.

New construction is comprised of all new work put in place, additions and major renovations, conversions and alterations where either a structural change takes place or the life of the structure is extended.

Repair construction includes minor renovations and alterations. As far as possible, snow removal, flushing and sanding of streets and general day-to-day maintenance such as char services are excluded.

2. Sources and Methods

The following is a general description of the various sources of information and methods used to derive the statistics presented in this report. It is hoped that with this information, users of these statistics will be better able to appraise their usefulness in various employments.

Total Value of Construction by Type of Structure

The statistics presented in this report are based largely on information received from firms and individuals paying for the work done. Most of the data on the value of construction by type of structure is the result of two separate surveys: (a) the capital expenditures survey which obtained this information from business firms, institutions and government-owned enterprises, (b) the construction survey of government departments which provided much of the remainder. In both these surveys respondents reported their total expenditures on new and repair construction by type of structure and, in addition, a breakdown of these totals into the value of work done by contract, and that done by their own labour force, the latter being the cost of own account work plus miscellaneous expenditures such as legal, architectural and engineering fees. Briefly, these are the sources used to obtain the total value of construction work by type of structure and the value done by construction contractors.

Of the total value of construction shown, 75 per cent is the result of direct surveys of business firms, institutions, government-owned enterprises and departments and of residential building activity. The remainder is estimated. A brief outline of the methods employed to make these estimates is given in the following paragraphs. For a more complete description of these methods, see pages 19 to 23 of the report "Private and Public Investment in Canada, Outlook 1964".

The value of work figures in the tables of this report are estimates. In order to approximate full coverage in an industry group, reported data were inflated to allow for those firms which did not report. In manufacturing, the method used to inflate the reported expenditures was to multiply the known expenditures by a factor obtained by dividing the total value of shipments in 1961 of all the firms in each industry by the corresponding 1961 total for the firms reporting in the 1964 survey. In carrying out this procedure it has been assumed that the proportion of shipments of the reporting establishments in both 1961 and 1964 has not changed significantly during the period and, further, that there is a relationship between total value of production and expenditures on construction. In the utilities, trade, finance and institutional and commercial services sectors, the same principle has been followed using appropriate basic data for the sector concerned. Expenditures reported by new establishments for which no production or other basic data are available, are included as "net additions". For some industries, which are not amenable to direct survey methods, independent estimates were made. Since reporting firms accounted for 75 per cent of the total, it is believed that the estimating procedure for the non-reporting firms and industries not covered by direct survey does not introduce any great margin of error into the total. Estimates for individual industries or regions are, of course, subject to greater error than the total figures for Canada.

Both the 1963 preliminary actual figures and the 1964 intentions estimates were reported by firms on the same questionnaire. With the reported figures covering both years coming from the same group of establishments and with the estimating techniques for non-reporting firms the same for each year, the percentage change from 1963 to 1964 can be calculated with more precision than the absolute magnitude of expenditures in the two years.

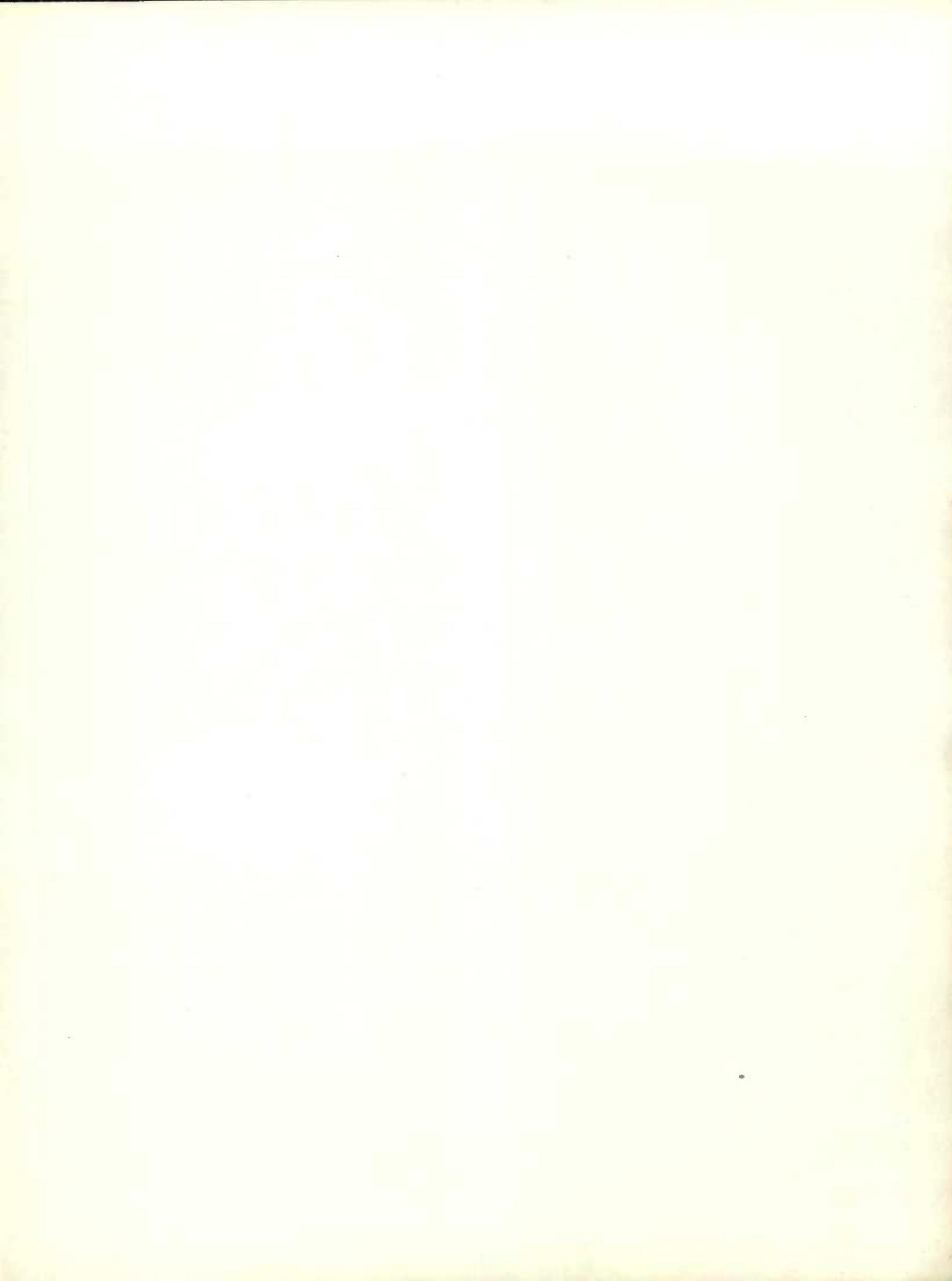
Housing estimates were made on a different basis from those derived from information submitted directly by business or government. For 1962 and 1963, estimates of the volume of residential construction were prepared on the basis of results from surveys conducted by the Central Mortgage and Housing Corporation and the value estimates were prepared by the Dominion Bureau of Statistics. Appraisals of the probable volume of housing construction in 1964 were made by field representatives of the Central Mortgage and Housing Corporation who consulted local officials, builders, contractors, supply firms, and other individuals and firms concerned with future housing construction projects. Using information obtained from these sources and their own knowledge, the representatives of the Corporation made estimates of private and government initiated housing for all municipalities in Canada with a population of 5,000 and over. The five regional offices and the head office of the Corporation checked these estimates. Independent estimates were made of housing in areas of less than 5,000 population. Finally, an allowance was made for conversions which amounted to a small part of the total. Allowing for probable changes in construction costs, estimates were then prepared for the value of new residential construction work performed and alterations and repair work likely to be undertaken in 1963.

Labour and Material Content

The estimates of labour and material content are derived from the application of ratios of these items to total value of work performed. The 1962 survey of construction contractors provided the basic data for deriving the ratios applied to break

down the total value of work done by contractors in the years 1962 to 1964. The ratios used to break down own account work were computed from information obtained in the capital expenditures and government departments surveys, wherein the respondent was requested to provide data on the costs involved in such work.

Indirect methods were also used in estimating the number of persons, working full-time, required to construct the facilities estimated to be erected in each of the years. In the 1951 to 1953 surveys, respondents were requested to report the average number of employees engaged in construction each month. In the 1954 survey they were asked to report the total number on the payroll during the last pay period of the month. From this point on, however, the same procedure was followed. The monthly data were summed and divided by 12 to compute the annual averages. To allow for non-response and non-coverage, this annual average number of employees of the reporting firms was "blown-up" by the relationship of estimated total salaries and wages of reporting firms. For working owners and partners reported in the contractors survey, salaries were imputed from data reported for salaried employees of construction firms and included in the labour content of the total value of work performed. The resulting figures therefore represent an estimate of the number of persons working full time throughout the year. The total number working at any given time may, of course, be above or below the average. In arriving at the average number for 1963 and 1964 an average annual earnings figure was computed from 1962, projected forward, and divided into the estimated total salaries and wages, including an allowance for working owners and partners, for these years.



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