

CATALOGUE No.

64-201

ANNUAL

1.3



CONSTRUCTION IN CANADA
1961-63

DOMINION BUREAU OF STATISTICS

Business Finance Division

Operations Section

DOMINION BUREAU OF STATISTICS
Business Finance Division
Operations Section

CONSTRUCTION IN CANADA

1961-63

Published by Authority of
The Minister of Trade and Commerce

June 1963
6602-504

Price 75 cents

TABLE OF CONTENTS

	Page
Introduction	5
General Review	5
Value of Construction Work Performed:	
Table	
1. Current and Constant Dollars, 1954-63	6
2. By Contractors and Others, 1959-63	6
3. By Principal Types of Construction, 1959-63	6
4. By Principal Types of Construction for Industry or Sector	7
5. Dollar and Percentage Change by Principal Type of Construction for Industry or Sector	7
6. By Type of Structure, Total, 1959-63	8
Labour Content and Cost of Materials Used, 1961-63	
7. By Provinces	10
8. By Contractors and Others	11
Detailed Tables	12
Value of Construction Work Performed – Canada, 1961-63:	
9. By Type of Structure, New and Repair	12
Value of Construction Work Performed, by Type of Structure, Industry or Sector 1961-63:	
10. Primary Industries	14
11. Manufacturing	16
12. Utilities	18
13. Trade Finance and Commercial Services	20
14. Federal Government Departments	22
15. Provincial Government Departments	23
16. Municipal Government Departments	24
17. Housing and Institutional Services	24
Value of Construction Work Performed by Type of Structure – Provinces 1961-63:	
18. Newfoundland	25
19. Prince Edward Island	25
20. Nova Scotia	26
21. New Brunswick	28
22. Quebec	30
23. Ontario	32
24. Manitoba	34
25. Saskatchewan	36
26. Alberta	38
27. British Columbia	40
Statistical Notes	42

INTRODUCTION

This report contains data on construction activity undertaken in Canada during 1961 and 1962 and provides estimates of the intended program for 1963. The information given for 1962 is preliminary whereas that shown for 1961 and earlier years is final. The probable volume of construction that will be realized in 1963 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 1963", 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 1962 construction programme reached \$7.3 billion, a 5.1 per cent increase from the previous year's level of \$7.0 billion. New construction increased 5.8 per cent from \$5,518 million in 1961 to \$5,841 million in 1962, while at the same time repair construction increased 2.2 per cent from \$1,456 million to \$1,488 million.

Overall building construction was substantially higher in 1962 as a result of large increases in institutional, industrial and residential building. The major factor in the increase of institutional construction was the very large programme of technical school construction undertaken with the assistance of the Federal Government. The level of industrial building reflected the increase in construction of factories, plants and mine buildings. On the other hand, the decline of activity in the construction of

office buildings was responsible for the overall reduction in commercial construction.

Total outlays, new and repair, on engineering structures were somewhat lower than 1961 with substantial increases in electric power projects and highway construction, partially offsetting a considerable decline in oil and gas pipelines and marine construction.

Plans for 1963 reveal that the total construction programme is expected to reach \$7.6 billion, an increase of 3.8 per cent over 1962. Should this programme be realized as outlined in the latest survey of intentions there will be a reduction in expenditures on building construction accompanied by a substantial increase in engineering construction, thus constituting a reversal of the trend noticeable in recent years.

Year	Total new and repair construction	To change over previous year in	
		Value	Volume
1954.....	4,842	0.3	0.0
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	1.9
1962.....	7,329	5.1	2.0
1963.....	7,610	3.8	

VALUE OF CONSTRUCTION WORK PERFORMED

TABLE 1. Current and Constant Dollars, 1954-63¹

	New		Repair		Total		Total construction as percentage of Gross National Product	
	Current	Constant	Current	Constant	Current	Constant	Current	Constant
millions of dollars								
1954.....	3,737	4,149	1,105	1,244	4,842	5,393	19.5	20.2
1955.....	4,167	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	5,866	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	5,335	1,456	1,313	6,974	6,648	18.6	19.0
1962.....	5,841	5,482	1,488	1,301	7,329	6,783	18.1	18.2
1963.....	6,061	-	1,549	-	7,610	-	-	-

¹ Actual 1954-61, preliminary 1962, intentions 1963.

Note: Constant dollars in construction for "Construction in Canada," for the years 1959 to 1962 inclusive, will not agree with "Private and Public Investment in Canada, Outlook 1963," due to a revision in price indexes.

TABLE 2. By Contractors and Others, 1959-63¹

	Contract construction			Other construction ²			Total construction		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
millions of dollars [%]									
1959.....	4,685	584	5,269	1,025	783	1,808	5,710	1,367	7,077
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.....	4,904	792	5,696	937	696	1,633	5,841	1,488	7,329
1963.....	5,126	823	5,949	935	726	1,661	6,061	1,549	7,610

¹ Actual 1959-61, preliminary 1962, intentions 1963.

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, 1959-63¹

	1959		1960		1961		1962		1963	
	Value	Percent of total								
	\$ Mill	%								
Total construction	7,077	100.0	6,886	100.0	6,974	100.0	7,329	100.0	7,610	100.0
Total building construction	4,240	59.9	4,051	58.8	4,143	59.4	4,525	61.7	4,488	59.0
Residential.....	2,183	30.9	1,913	27.8	1,951	28.0	2,100	28.7	2,115	27.8
Industrial.....	416	5.9	452	8.6	411	5.9	493	6.7	493	6.5
Commercial.....	759	10.7	738	10.7	755	10.8	733	10.0	661	8.7
Institutional.....	569	8.0	615	8.9	647	9.3	810	11.0	836	11.0
Other building.....	313	4.4	333	4.8	379	5.4	389	5.3	383	5.0
Total engineering	2,837	40.1	2,835	41.2	2,831	40.6	2,804	38.3	3,122	41.0
Marine construction.....	134	1.9	119	1.7	121	1.7	91	1.3	79	1.0
Road highway and aerodrome construction.....	791	11.1	830	12.1	750	10.8	793	10.8	866	11.4
Waterworks and sewage systems.....	226	3.2	233	3.4	223	3.2	231	3.2	254	3.3
Dams and irrigation.....	60	0.8	92	1.3	78	1.1	112	1.5	175	2.3
Electric Power construction.....	395	5.8	349	5.1	411	5.9	455	6.2	537	7.1
Railway, telephone and telegraph construction.....	458	6.5	452	6.8	384	5.5	374	5.1	392	5.1
Gas and oil facilities.....	464	6.6	454	6.6	520	7.5	419	5.7	448	5.9
Other engineering construction.....	309	4.4	308	4.4	344	4.9	329	4.5	371	4.9

¹ Actual 1959-61, preliminary 1962, intentions 1963.

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

	1961			1962			1963		
	Building	Engineering	Total	Building	Engineering	Total	Building	Engineering	Total
thousands of dollars									
Totals	4,143,170	2,831,209	6,974,379	4,524,650	2,804,495	7,329,145	4,488,410	3,121,766	7,610,176
Agriculture and fishing	209,329	23,706	233,035	227,547	25,740	253,287	223,461	25,287	248,748
Forestry	6,334	39,306	45,640	6,298	38,089	44,387	6,465	37,300	43,765
Mining, quarrying and oil wells	75,153	312,957	388,110	98,156	276,127	374,283	90,570	280,105	370,675
Construction	15,853	1,732	17,585	17,194	1,806	19,000	18,268	1,732	20,000
Manufacturing	310,076	93,507	403,583	367,016	102,217	469,233	354,304	89,878	444,182
Utilities	149,966	1,215,878	1,365,844	129,647	1,159,482	1,289,129	126,250	1,414,461	1,540,711
Trade - Wholesale and retail	153,588	12,181	165,769	146,766	10,456	157,222	142,510	10,753	153,263
Finance, insurance and real estate	277,976	7,180	285,156	274,232	4,322	278,554	234,134	4,386	238,520
Commercial services	67,971	2,551	70,522	71,648	1,424	73,072	71,596	771	72,367
Housing	1,951,000	-	1,951,000	2,100,000	-	2,100,000	2,115,100	-	2,115,100
Institutional services	598,506	1,940	600,446	761,704	2,376	764,080	782,674	4,071	786,745
Government departments	327,418	1,120,271	1,447,689	324,442	1,182,456	1,506,898	323,078	1,253,022	1,576,100

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

	Change 1961 to 1962						Change 1962 to 1963					
	Building		Engineering		Total		Building		Engineering		Total	
	Mill	%	Mill	%	Mill	%	Mill	%	Mill	%	Mill	%
Totals	381	9.2	- 27	-- 0.9	355	5.1	- 36	- 0.8	317	11.3	281	3.8
Agriculture and fishing	18	8.7	2	8.6	20	8.7	- 4	- 1.8	-	- 1.8	- 5	- 1.8
Forestry	-	- 0.6	- 1	- 3.1	- 1	- 2.7	-	2.7	- 1	- 2.1	- 1	- 1.4
Mining, quarrying and oil wells	23	30.6	- 37	- 11.8	- 14	- 3.6	- 8	- 7.7	4	1.4	- 4	- 1.0
Construction	1	8.5	-	4.3	1	8.0	1	6.2	-	- 4.1	1	5.3
Manufacturing	57	18.4	9	9.3	66	16.3	- 13	- 3.5	- 12	- 12.1	- 25	- 5.3
Utilities	- 20	- 13.5	- 56	- 4.6	- 77	- 5.6	- 3	- 2.6	255	22.0	252	19.5
Trade - Wholesale and retail	- 7	- 4.4	- 2	- 14.2	- 9	- 5.2	- 4	- 2.9	-	2.8	- 4	- 2.5
Finance, insurance and real estate	- 4	- 1.3	- 3	- 39.8	- 7	- 2.3	- 40	- 14.6	-	1.5	- 40	- 14.4
Commercial services	4	5.4	- 1	- 44.2	3	3.6	-	- 0.1	- 1	- 45.9	- 1	- 1.0
Housing	149	7.6	-	-	149	7.6	15	0.7	-	-	15	0.7
Institutional services	163	27.3	-	22.5	164	27.3	21	2.8	2	71.3	23	3.0
Government departments	- 3	- 0.9	62	5.6	59	4.1	- 1	- 0.4	71	6.0	69	4.6

TABLE 6. By Type of Structure, Total, 1959-63¹

Type of structure	1959	1960	1961	1962	1963
thousands of dollars					
Total value of construction	7,977,383	6,886,255	6,974,379	7,328,145	7,610,176
Total building construction	4,240,059	4,051,104	4,143,170	4,524,650	4,488,410
Residential	2,183,000	1,913,100	1,951,000	2,100,000	2,115,100
Industrial	415,814	451,568	410,868	492,676	493,036
2. Factories, plants, workshops, food canneries	344,692	365,607	318,894	372,439	370,798
3. Mine and mine mill buildings	30,071	45,891	57,576	82,752	84,673
4. Railway stations, offices, roadway buildings	25,650	23,114	22,904	22,839	24,610
5. Railway shops, engine houses, water and fuel stations	15,401	16,856	11,494	14,646	12,955
Commercial	759,065	738,127	754,659	733,300	661,638
6. Warehouses, storehouses, refrigerated storage, etc.	80,951	82,131	65,241	59,552	57,191
7. Grain elevators	27,329	20,901	28,101	29,162	15,730
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	61,122	48,449	46,568	42,123	47,525
9. Office buildings	287,136	309,942	351,877	326,229	285,350
10. Stores, retail and wholesale	195,063	187,987	164,757	175,781	160,374
11. Garages and service stations	53,466	55,223	44,069	40,844	38,801
12. Theatres, arenas, amusement and recreational buildings	52,076	31,868	51,416	57,672	54,836
13. Laundries and dry cleaning establishments	1,922	1,626	2,630	1,937	1,831
Institutional	569,109	615,188	647,056	809,840	835,655
14. Schools and other educational buildings	307,661	346,599	360,968	525,468	521,756
15. Churches and other religious buildings	64,421	70,037	68,705	60,062	54,004
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	153,057	153,707	179,382	184,613	207,735
17. Other institutional buildings	43,970	44,845	38,001	39,697	52,160
Other building construction	313,071	333,121	379,587	368,834	382,981
18. Farm buildings (excluding dwellings)	172,359	168,215	211,739	229,252	225,051
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	41,973	60,749	69,464	63,457	69,390
20. Aeroplane hangars	26,352	17,436	8,633	7,401	5,609
21. Passenger terminals, bus, boat or air	11,476	26,181	22,829	22,154	20,585
22. Armouries, barracks, drill halls, etc.	22,176	20,846	24,298	22,607	22,712
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	21,454	21,280	16,232	17,821	11,995
24. Other building construction	17,281	18,414	26,392	26,142	27,639
Total engineering construction	2,837,324	2,835,151	2,831,209	2,804,495	3,121,766
Marine construction	134,460	119,032	120,843	90,778	78,896
25. Docks, wharves, piers, breakwaters	61,675	71,540	77,080	57,626	48,623
26. Retaining walls, embankments, ripraping	2,980	4,263	2,292	2,516	2,573
27. Canals and waterways	4,384	6,711	10,470	4,018	3,785
28. Dredging and pile driving	51,390	31,590	23,928	21,199	18,774
29. Dyke construction	3,224	294	1,081	917	868
30. Logging booms	1,452	1,246	965	843	698
31. Other marine construction	9,355	3,388	5,027	3,659	3,575

¹ Actual 1959-61, preliminary 1962, intentions 1963.

TABLE 6. By Type of Structure, Total, 1959-63¹ — Concluded

Type of structure	1959	1960	1961	1962	1963
thousands of dollars					
Road, highway and aerodrome construction	791,059	830,359	750,170	793,129	866,233
32. Hard surfaced or paved streets, highways, parking lots, etc.	398,241	457,143	461,738	493,891	560,014
33. Gravel or stone streets, highways, roads, parking lots, etc.	253,712	241,832	170,396	172,017	174,506
34. Dirt, clay or other streets, roads, parking lots, etc.	48,958	50,608	39,227	41,909	41,177
35. Grading, scraping, oiling, filling	30,001	26,345	27,535	35,494	43,067
36. Sidewalks, paths	18,502	24,075	22,275	23,080	24,459
37. Aerodromes, landing fields, runways, tarmac	41,645	30,356	28,999	26,728	23,010
Waterworks and sewage systems	225,707	232,783	223,152	231,554	254,090
38. Tile drains, drainage ditches, storm sewers	13,929	21,122	7,082	8,128	10,064
39. Water mains, hydrants and services	83,136	78,277	77,034	74,821	73,328
40. Sewage systems and connections	112,874	113,367	122,685	126,904	137,035
41. Pumping stations, water	13,883	17,254	14,116	16,835	24,892
42. Water storage tanks	2,085	2,763	2,235	4,866	8,771
Dams and irrigation	60,011	91,743	78,351	111,643	174,981
43. Dams and reservoirs	45,893	76,295	60,016	91,009	153,380
44. Irrigation and land reclamation projects	14,318	15,448	18,333	20,634	21,601
Electric power construction	394,829	348,877	411,381	455,339	536,898
45. Electric power generating plants, including water conveying and controlling structures	161,752	128,977	197,121	201,846	237,691
46. Electric transformer stations	45,848	43,556	33,237	41,882	48,505
47. Power transmission and distribution lines, trolley wires	171,652	159,878	159,854	193,354	232,030
48. Street lighting	15,577	18,666	21,169	18,447	18,870
Railway, telephone and telegraph	457,825	451,561	384,023	373,799	392,067
49. Railway tracks and roadbed	282,338	269,070	231,571	207,401	225,305
50. Signals and interlockers	12,839	13,696	16,104	13,743	14,905
51. Telegraph and telephone lines, underground and marine cables	162,648	168,795	138,348	152,655	151,857
Gas and oil facilities	464,134	454,372	519,526	419,284	447,701
52. Gas mains and services	78,710	60,764	56,542	65,414	65,514
53. Pumping stations, oil	3,268	3,992	3,228	5,479	2,586
54. Pumping stations, gas	15,869	27,370	13,773	23,404	15,438
55. Oil storage tanks	23,618	22,686	20,774	18,965	15,040
56. Gas storage tanks	1,667	8,869	909	459	1,395
57. Oil pipe lines	18,650	16,517	42,957	16,751	18,402
58. Gas pipe lines	38,148	52,807	95,280	23,917	46,071
59. Oil wells	134,963	141,163	121,147	127,830	134,738
60. Gas wells	31,805	34,687	46,422	39,279	45,377
61. Oil refinery — processing units	92,665	64,383	48,229	67,999	63,883
62. Natural gas cleaning plants	24,771	21,134	70,285	29,997	39,259
Other engineering construction	308,299	306,424	343,783	328,959	370,902
63. Bridges, trestles, culverts, overpasses, viaducts	183,110	196,396	207,566	197,625	216,560
64. Tunnels and subways	26,829	21,740	19,261	21,327	44,676
65. Incinerators	2,949	3,491	403	350	496
66. Park systems, landscaping, sodding, etc.	9,100	8,786	10,377	11,393	11,489
67. Swimming pools, tennis courts, outdoor recreation facilities	5,139	3,632	6,262	5,940	6,444
68. Mine shafts and other below surface workings	33,437	29,397	31,821	24,874	25,635
69. Fences, snowsheds, signs, guard rails	20,058	19,172	24,747	24,695	25,239
70. Other engineering construction	28,677	23,810	43,328	42,755	40,363

¹ Actual 1959-61, preliminary 1962, intentions 1963.

LABOUR CONTENT AND COST OF MATERIALS USED, 1959-63¹

TABLE 7. By Provinces

Provinces	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
Canada:				
1959	571,912	2,378,214	3,367,254	7,077,383
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	547,249	2,466,905	3,464,087	7,329,145
1963	564,586	2,555,869	3,563,954	7,610,176
Newfoundland:				
1959	11,382	38,881	43,363	105,065
1960	11,817	47,882	64,053	138,508
1961	13,462	55,022	77,575	169,491
1962	16,275	68,357	96,299	211,812
1963	13,893	57,711	80,777	177,761
Prince Edward Island:				
1959	2,845	7,715	15,647	29,355
1960	2,734	7,930	14,459	30,223
1961	3,160	9,844	15,649	32,254
1962	3,389	10,842	17,620	36,050
1963	3,269	10,473	16,943	34,990
Nova Scotia:				
1959	22,994	73,232	96,223	209,163
1960	22,937	75,163	102,521	220,062
1961	20,841	73,537	94,800	204,845
1962	20,270	72,757	93,313	202,772
1963	21,677	77,929	99,466	219,205
New Brunswick:				
1959	16,421	57,030	86,020	175,003
1960	16,660	54,925	72,880	156,308
1961	15,003	51,688	80,039	157,243
1962	14,475	50,830	79,360	153,683
1963	14,777	51,765	81,010	156,000
Quebec:				
1959	142,154	567,179	894,940	1,772,322
1960	129,350	543,343	804,971	1,654,161
1961	135,116	566,190	860,458	1,732,739
1962	142,211	608,800	929,383	1,873,504
1963	147,068	630,207	952,644	1,943,975
Ontario:				
1959	195,433	844,800	1,130,533	2,392,095
1960	185,694	840,649	1,103,616	2,332,900
1961	172,686	801,021	1,077,333	2,294,781
1962	163,078	869,325	1,172,318	2,492,614
1963	165,523	880,461	1,183,715	2,523,983
Manitoba:				
1959	32,211	127,322	201,946	397,769
1960	31,101	131,066	196,577	398,598
1961	29,020	128,903	177,085	369,662
1962	28,400	128,971	174,717	370,656
1963	31,550	144,282	196,014	420,025

¹ Actual 1959-61, preliminary 1962, intentions 1963.

TABLE 7. By Provinces - Concluded

Provinces	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
Saskatchewan:				
1959	29,186	116,681	171,020	357,717
1960	29,235	116,442	187,463	378,935
1961	28,528	127,292	175,534	383,021
1962	29,576	134,720	187,446	404,181
1963	29,369	133,435	185,945	400,857
Alberta:				
1959	58,931	248,251	367,511	818,597
1960	57,070	244,218	370,242	815,793
1961	60,453	270,128	366,068	876,719
1962	56,519	251,783	375,187	813,207
1963	57,267	257,405	381,198	833,827
British Columbia:				
1959	60,355	297,123	360,051	820,297
1960	54,593	275,273	333,840	762,767
1961	52,605	265,604	328,972	753,624
1962	53,056	270,520	338,444	770,664
1963	60,193	312,201	386,242	899,553

TABLE 8. By Contractors and Others

Type	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
Total:				
1959	571,912	2,378,214	3,367,254	7,077,383
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	574,249	2,466,905	3,464,087	7,329,145
1963	564,586	2,555,869	3,563,954	7,610,178
Contractors:				
1959	383,825	1,650,000	2,531,105	5,269,521
1960	359,711	1,811,273	2,503,376	5,182,772
1961	358,112	1,655,512	2,552,390	5,347,557
1962	376,840	1,769,598	2,741,381	5,696,455
1963	390,701	1,844,646	2,828,426	5,949,363
Utilities:				
1959	66,564	303,082	395,103	779,355
1960	66,235	311,988	379,532	749,932
1961	65,149	319,510	365,810	748,290
1962	65,812	328,541	372,604	765,415
1963	68,396	341,434	385,218	793,120
Governments:				
1959	63,339	203,585	140,417	432,582
1960	74,509	244,938	171,041	528,031
1961	71,833	220,089	173,029	497,272
1962	70,460	219,945	171,832	495,196
1963	71,700	222,983	174,274	500,633
Others:				
1959	58,184	221,547	300,629	595,925
1960	40,736	168,692	197,673	425,520
1961	35,760	154,118	182,284	381,260
1962	34,137	148,821	178,290	372,079
1963	33,789	146,806	176,036	367,060

341.4
223.2
146.2
111.2

VALUE OF CONSTRUCTION WORK PERFORMED - CANADA 1961-63¹

TABLE 9. By Type of Structure, New and Repair

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	3,518,290	1,456,089	6,974,379	5,841,463	1,487,682	7,329,145	6,060,633	1,549,543	7,610,176
Total building construction	3,257,708	885,462	4,143,170	3,608,330	916,320	4,524,650	3,537,679	950,731	4,488,410
Residential	1,487,000	484,000	1,951,000	1,387,000	513,000	2,100,000	1,571,100	544,000	2,115,100
Industrial	294,303	116,565	410,868	370,282	122,394	492,676	370,239	122,797	493,036
2. Factories, plants, workshops, food canneries	227,534	91,360	318,894	278,644	93,795	372,439	277,525	93,273	370,798
3. Mine and mine mill buildings	50,331	7,245	57,576	72,314	10,438	82,752	75,871	8,802	84,673
4. Railway stations, offices, roadway buildings	11,236	11,668	22,904	11,241	11,598	22,839	11,465	13,145	24,610
5. Railway shops, engine houses, water and fuel stations	5,202	6,292	11,494	8,083	6,563	14,646	5,378	7,577	12,955
Commercial	637,305	117,354	754,659	623,701	109,599	733,300	553,558	108,080	661,638
6. Warehouses, storehouses, refrigerated storage, etc.	52,924	12,317	65,241	47,570	11,982	59,552	45,767	11,424	57,191
7. Grain elevators	21,357	6,744	28,101	23,957	5,205	29,162	10,545	5,185	15,730
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	33,876	12,692	46,568	32,554	9,569	42,123	37,034	10,491	47,525
9. Office buildings	311,504	40,373	351,877	284,865	41,364	326,229	244,703	40,647	285,350
10. Stores, retail and wholesale	136,237	28,520	164,757	149,970	25,811	175,781	135,928	24,446	160,374
11. Garages and service stations	34,877	9,192	44,069	31,994	8,850	40,844	29,748	9,053	38,801
12. Theatres, arenas, amusement and recreational buildings	44,824	6,592	51,416	51,836	5,836	57,672	48,913	5,923	54,836
13. Laundries and dry cleaning establishments	1,706	924	2,630	955	982	1,937	920	911	1,831
Institutional	570,415	76,641	647,056	734,500	75,340	809,840	756,993	78,662	835,655
14. Schools and other educational buildings	322,239	38,729	360,968	486,285	39,183	525,468	461,894	39,862	521,756
15. Churches and other religious buildings	59,821	8,884	68,705	53,515	6,547	60,062	47,878	6,126	54,004
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	159,192	20,190	179,382	164,356	20,257	184,613	184,858	22,877	207,735
17. Other institutional buildings	29,163	8,838	38,001	30,344	9,353	39,697	42,363	9,797	52,160
Other building construction	288,685	90,902	379,587	292,847	95,987	388,834	285,789	97,192	382,981
18. Farm buildings (excluding dwellings)	152,951	58,788	211,739	165,828	63,424	229,252	162,706	62,345	225,051
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	65,848	3,616	69,464	59,966	3,491	63,457	65,839	3,551	69,390
20. Aeroplane hangars	5,153	3,480	8,633	3,984	3,417	7,401	2,034	3,575	5,609
21. Passenger terminals, bus, boat or air	22,406	423	22,829	20,563	1,591	22,154	18,584	2,001	20,585
22. Armouries, barracks, drill halls, etc.	10,145	14,153	24,298	9,221	13,386	22,607	8,045	14,667	22,712
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	12,263	3,969	16,232	13,849	3,972	17,821	8,025	3,970	11,995
24. Other building construction	19,919	6,473	26,392	19,436	6,706	26,142	20,556	7,083	27,639
Total engineering construction	2,260,582	570,627	2,831,209	2,233,133	571,362	2,804,495	2,522,954	598,812	3,121,766
Marine construction	104,347	16,496	120,843	74,908	15,870	90,778	63,010	15,886	78,896
25. Docks, wharves, piers, breakwaters	69,732	7,348	77,080	50,574	7,052	57,626	41,358	7,265	48,623
26. Retaining walls, embankments, ripraping	1,363	929	2,292	1,682	834	2,516	1,620	953	2,573
27. Canals and waterways	8,966	1,504	10,470	2,829	1,189	4,018	2,856	929	3,785
28. Dredging and pile driving	19,134	4,794	23,928	16,489	4,710	21,199	14,110	4,664	18,774
29. Dyke construction	914	167	1,081	759	158	917	719	149	868
30. Logging booms	337	628	965	306	537	843	163	535	698
31. Other marine construction	3,901	1,126	5,027	2,269	1,390	3,659	2,184	1,391	3,575

¹ Actual 1961, preliminary 1962, intentions 1963.

VALUE OF CONSTRUCTION WORK PERFORMED, BY TYPE OF STRUCTURE - INDUSTRY OR SECTOR, 1961-63¹

TABLE 10. Primary Industries²

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total Value of construction	571,680	112,690	684,370	569,612	121,345	690,957	563,587	119,601	683,188
Total building construction	233,270	73,399	306,669	267,771	81,424	349,195	259,599	79,165	338,764
Residential	-	-	-	-	-	-	-	-	-
Industrial	58,619	9,285	67,904	82,368	12,238	94,606	79,793	10,630	90,423
2. Factories, plants, workshops, food canneries	7,969	2,104	10,073	8,526	1,808	10,334	8,594	1,837	10,431
3. Mine and mine mill buildings	50,170	7,177	57,347	71,118	10,425	81,543	71,193	8,790	79,983
4. Railway stations, offices, roadway buildings	94	4	98	123	4	127	5	2	7
5. Railway shops, engine houses, water and fuel stations	386	-	386	2,601	1	2,602	1	1	2
Commercial	14,995	2,476	17,471	14,484	2,500	16,984	13,527	2,575	16,102
6. Warehouses, storehouses, refrigerated storage, etc.	4,179	1,145	5,324	4,704	1,257	5,961	3,437	1,355	4,792
7. Grain elevators	-	-	-	-	-	-	-	-	-
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	1,906	52	1,958	390	60	450	20	58	78
9. Office buildings	7,582	1,135	8,717	7,175	1,012	8,187	9,025	976	10,001
10. Stores, retail and wholesale	292	5	297	278	3	281	278	6	284
11. Garages and service stations	553	107	660	1,142	128	1,270	681	146	827
12. Theatres, arenas, amusement and recreational buildings	454	27	481	795	38	833	86	32	118
13. Laundries and dry cleaning establishments	29	5	34	-	2	2	-	2	2
Institutional	1,531	43	1,574	1,880	112	1,992	823	427	1,250
14. Schools and other educational buildings	1,202	9	1,211	1,140	30	1,170	174	43	217
15. Churches and other religious buildings	-	1	1	16	15	31	-	-	-
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	329	33	362	724	67	791	649	384	1,033
17. Other institutional buildings	-	-	-	-	-	-	-	-	-
Other building construction	158,125	61,595	219,720	169,039	66,574	235,613	165,456	65,533	230,989
18. Farm buildings (excluding dwellings)	150,580	58,287	208,867	164,089	62,937	227,026	161,045	61,888	222,933
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	18	27	45	18	17	35	11	18	29
20. Aeroplane hangars	13	-	13	374	1	375	1	1	2
21. Passenger terminals, bus, boat or air	-	-	-	-	-	-	-	-	-
22. Armouries, barracks, drill halls, etc.	-	-	-	-	-	-	-	-	-
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	7,269	3,251	10,520	4,529	3,533	8,062	4,331	3,541	7,872
24. Other building construction	245	30	275	29	86	115	68	85	153
Total engineering construction	338,410	39,291	377,701	301,841	39,921	341,762	303,988	40,436	344,424
Marine construction	12,979	2,305	15,284	11,733	2,469	14,202	5,825	2,112	7,937
25. Docks, wharves, piers, breakwaters	10,427	1,250	11,677	10,070	1,409	11,479	4,953	1,271	6,224
26. Retaining walls, embankments, ripraping	196	20	216	487	5	492	3	5	8
27. Canals and waterways	218	39	257	171	128	299	102	117	219
28. Dredging and pile driving	1,184	251	1,435	225	271	496	101	63	164
29. Dyke construction	75	6	81	13	12	25	-	-	-
30. Logging booms	240	430	670	264	393	657	148	437	585
31. Other marine construction	639	309	948	503	251	754	518	219	737

See footnotes at end of table.

TABLE 10. Primary Industries¹ — Concluded

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	26,440	13,543	39,983	30,060	12,733	42,793	28,373	12,855	41,228
32. Hard surfaced or paved streets, highways, parking lots, etc.	2,782	115	2,897	2,421	241	2,662	2,018	377	2,395
33. Gravel or stone streets, highways, roads, parking lots, etc.	8,066	5,141	13,207	7,620	4,598	12,218	7,144	4,827	11,771
34. Dirt, clay or other streets, roads, parking lots, etc.	13,957	8,056	22,013	16,114	7,548	23,662	15,051	7,574	22,625
35. Grading, scraping, oiling, filling	1,562	200	1,762	3,367	205	3,572	3,838	126	3,964
36. Sidewalks, paths	28	—	28	231	120	351	322	135	457
37. Aerodromes, landing fields, runways, tarmac	45	31	76	307	21	328	—	16	16
Waterworks and sewage systems	4,992	522	5,514	4,429	692	5,121	5,574	737	6,311
38. Tile drains, drainage ditches, storm sewers	170	7	177	1,555	12	1,567	3,003	4	3,007
39. Water mains, hydrants and services	2,441	287	2,708	1,793	478	2,271	1,737	414	2,151
40. Sewage systems and connections	1,697	115	1,812	659	103	762	572	214	786
41. Pumping stations, water	505	121	626	317	95	412	193	102	295
42. Water storage tanks	179	12	191	105	4	109	69	3	72
Dams and irrigation	9,760	3,432	13,192	10,633	3,862	14,495	10,243	3,684	13,927
43. Dams and reservoirs	1,397	193	1,590	1,517	365	1,882	1,297	247	1,544
44. Irrigation and land reclamation projects	8,363	3,239	11,602	9,116	3,497	12,613	8,946	3,437	12,383
Electric power construction	1,812	707	2,519	4,456	720	5,176	3,979	777	4,756
45. Electric power generating plants, including water conveying and controlling structures	692	250	942	1,204	296	1,500	109	407	516
46. Electric transformer stations	126	19	145	553	43	596	179	31	210
47. Power transmission and distribution lines, trolley wires	979	328	1,307	2,653	354	3,007	3,647	309	3,956
48. Street lighting	15	110	125	46	27	73	44	30	74
Railway, telephone and telegraph	2,880	1,094	3,974	6,069	1,113	7,182	1,022	1,285	2,307
49. Railway tracks and roadbed	2,781	928	3,709	6,020	990	7,010	988	1,156	2,144
50. Signals and interlockers	1	—	1	7	6	13	1	2	3
51. Telegraph and telephone lines, underground and marine cables	98	166	264	42	117	159	33	127	160
Gas and oil facilities	235,983	9,448	245,429	194,907	12,229	207,136	213,617	12,756	226,373
52. Gas mains and services	297	5	302	5,273	48	5,321	1,935	51	1,986
53. Pumping stations, oil	2	1	3	24	1	25	210	1	211
54. Pumping stations, gas	107	—	107	12	1	13	24	—	24
55. Oil storage tanks	4,112	317	4,429	2,239	77	2,316	1,434	64	1,498
56. Gas storage tanks	4	—	4	13	—	13	18	—	18
57. Oil pipe lines	55	12	67	482	7	489	844	5	849
58. Gas pipe lines	5,359	292	5,651	2,138	375	2,513	1,822	329	2,151
59. Oil wells	115,294	5,853	121,147	119,654	7,976	127,630	126,798	7,938	134,736
60. Gas wells	44,630	1,514	46,144	37,272	1,328	38,598	43,765	1,416	45,181
61. Oil refinery—processing units	303	—	303	325	—	325	526	—	526
62. Natural gas cleaning plants	65,820	1,452	67,272	27,475	2,418	29,893	36,241	2,952	39,193
Other engineering construction	43,564	8,242	51,806	39,554	6,103	45,657	35,355	6,230	41,585
63. Bridges, trestles, culverts, overpasses, viaducts	494	253	747	213	130	343	324	136	460
64. Tunnels and subways	22	—	22	—	—	—	49	—	49
65. Incinerators	—	4	4	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.	59	22	81	327	47	374	4	51	55
67. Swimming pools, tennis courts, outdoor recreation facilities	1	24	25	2	32	34	33	31	64
68. Mine shafts and other below surface workings	28,474	3,345	31,819	22,951	1,917	24,868	23,304	2,237	25,541
69. Fences, snowsheds, signs, guard rails	6,400	3,302	11,702	9,204	3,546	12,750	9,059	3,486	12,545
70. Other engineering construction	6,114	1,292	7,406	6,857	431	7,288	2,582	289	2,871

¹ Actual 1961, preliminary 1962, intentions 1963.

² Primary industries include agriculture, fishing, mining, quarrying, oil wells and the construction industry.

TABLE 11. Manufacturing

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	279,037	124,546	403,583	346,436	122,797	469,233	320,279	123,903	444,182
Total building construction	221,760	88,318	310,076	276,622	90,394	367,016	264,831	89,473	354,304
Residential	—	—	—	—	—	—	—	—	—
Industrial	194,676	84,511	279,187	248,288	87,492	335,780	245,898	86,922	332,820
2. Factories, plants, workshops, food canneries	193,507	81,196	274,703	245,970	84,767	330,737	239,713	83,879	323,592
3. Mine and mine mill buildings	4	68	72	657	13	670	4,678	12	4,690
4. Railway stations, offices, roadway buildings	5	4	9	12	3	15	80	2	82
5. Railway shops, engine houses, water and fuel stations	1,160	3,243	4,403	1,649	2,709	4,358	1,427	3,029	4,456
Commercial	24,932	3,109	28,041	27,225	2,581	29,806	18,443	2,313	20,758
6. Warehouses, storehouses, refrigerated storage, etc.	15,280	1,031	16,311	14,275	923	15,198	7,635	890	8,525
7. Grain elevators	1,293	77	1,370	424	29	453	106	16	122
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	281	98	379	117	79	196	80	81	161
9. Office buildings	7,405	1,667	9,072	12,268	1,451	13,719	10,292	1,254	11,546
10. Stores, retail and wholesale	226	77	303	20	44	64	36	31	67
11. Garages and service stations	434	133	567	109	45	154	289	36	325
12. Theatres, arenas, amusement and recreational buildings	13	26	39	5	10	15	5	5	10
13. Laundries and dry cleaning establishments	—	—	—	7	—	7	—	—	—
Institutional	160	51	211	221	17	238	52	20	72
14. Schools and other educational buildings	158	—	158	115	—	115	—	—	—
15. Churches and other religious buildings	—	25	25	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	2	26	28	106	17	123	52	20	72
17. Other institutional buildings	—	—	—	—	—	—	—	—	—
Other building construction	1,992	645	2,637	888	304	1,192	438	218	656
18. Farm buildings (excluding dwellings)	717	143	860	201	115	316	105	67	172
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	—	7	7	6	—	6	10	—	10
20. Aeroplane hangars	310	87	397	32	5	37	20	7	27
21. Passenger terminals, bus, boat or air	—	—	—	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc.	—	—	—	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	434	408	842	596	184	780	209	144	353
24. Other building construction	531	—	531	53	—	53	94	—	94
Total engineering construction	57,277	36,230	93,507	69,814	32,403	102,217	55,448	34,430	89,878
Marine construction	6,592	1,685	8,277	3,500	1,204	4,704	2,235	1,136	3,371
25. Docks, wharves, piers, breakwaters	4,838	1,061	5,889	3,315	700	4,015	2,103	613	2,716
26. Retaining walls, embankments, ripraping	86	19	105	21	78	99	46	8	54
27. Canals and waterways	13	51	64	—	—	—	—	—	—
28. Dredging and pile driving	89	288	377	128	287	415	10	417	427
29. Dyke construction	1	11	12	6	—	6	66	—	66
30. Logging booms	93	198	291	30	123	153	10	83	93
31. Other marine construction	1,472	57	1,529	—	16	16	—	15	15

TABLE 11. Manufacturing — Concluded

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	5,572	1,606	7,178	2,190	1,025	3,215	1,883	1,119	3,002
32. Hard surfaced or paved streets, highways, parking lots, etc.	3,229	729	3,958	1,156	523	1,679	947	668	1,615
33. Gravel or stone streets, highways, roads, parking lots, etc.	554	504	1,058	330	221	551	477	195	672
34. Dirt, clay or other streets, roads, parking lots, etc.	686	324	1,010	191	247	438	209	217	426
35. Grading, scraping, oiling, filling	1,009	37	1,046	451	28	477	232	26	258
36. Sidewalks, paths	94	12	106	21	8	29	18	11	29
37. Aerodromes, landing fields, runways, tarmac	—	—	—	41	—	41	—	2	2
Waterworks and sewage systems	5,960	1,172	7,132	6,138	940	7,078	4,385	1,025	5,410
38. Tile drains, drainage ditches, storm sewers	669	176	845	414	92	506	599	20	619
39. Water mains, hydrants and services	2,238	343	2,581	3,337	337	3,674	980	469	1,449
40. Sewage systems and connections	1,443	221	1,664	1,396	253	1,649	1,308	261	1,569
41. Pumping stations, water	1,411	327	1,738	921	186	1,107	1,360	197	1,557
42. Water storage tanks	199	105	304	70	72	142	138	78	216
Dams and irrigation	466	85	551	432	140	572	225	129	354
43. Dams and reservoirs	466	85	551	430	140	570	225	129	354
44. Irrigation and land reclamation projects	—	—	—	2	—	2	—	—	—
Electric power construction	4,775	1,193	5,968	5,600	1,566	7,166	3,980	1,696	5,676
45. Electric power generating plants, including water conveying and controlling structures	1,912	502	2,414	1,260	387	1,647	849	452	1,301
46. Electric transformer stations	2,157	463	2,620	1,555	946	2,501	866	957	1,823
47. Power transmission and distribution lines, trolley wires	632	204	836	2,782	221	2,983	2,257	266	2,523
48. Street lighting	74	24	98	23	12	35	8	21	29
Railway, telephone and telegraph	723	807	1,530	1,009	545	1,554	720	532	1,252
49. Railway tracks and roadbed	674	775	1,449	1,004	502	1,506	715	494	1,209
50. Signals and interlockers	9	2	11	3	—	3	—	—	—
51. Telegraph and telephone lines, underground and marine cables	40	30	70	2	43	45	5	38	43
Gas and oil facilities	31,547	26,765	58,312	49,162	26,242	75,404	41,319	27,969	69,288
52. Gas mains and services	32	16	48	32	9	41	10	9	19
53. Pumping stations, oil	71	16	87	2	4	6	—	3	3
54. Pumping stations, gas	—	14	14	—	—	—	—	—	—
55. Oil storage tanks	5,382	858	6,240	5,606	1,075	6,681	3,363	1,093	4,456
56. Gas storage tanks	29	—	29	11	—	11	—	—	—
57. Oil pipe lines	884	124	1,008	645	55	700	1,383	47	1,430
58. Gas pipe lines	72	18	90	142	27	169	—	23	23
59. Oil wells	—	—	—	—	—	—	—	—	—
60. Gas wells	—	—	—	122	—	122	—	—	—
61. Oil refinery — processing units	23,957	23,969	47,926	42,602	25,072	67,674	36,563	26,794	63,357
62. Natural gas cleaning plants	1,120	1,750	2,870	—	—	—	—	—	—
Other engineering construction	1,642	2,917	4,559	1,783	741	2,524	701	824	1,525
63. Bridges, testles, culverts, overpasses, viaducts	491	253	744	300	148	448	73	143	216
64. Tunnels and subways	18	3	21	13	1	14	—	2	2
65. Incinerators	62	—	62	28	—	28	111	—	111
66. Park systems, landscaping, sodding, etc.	102	245	347	50	208	258	16	188	202
67. Swimming pools, tennis courts, outdoor recreation facilities	22	9	31	25	4	29	4	14	16
68. Mine shafts and other below surface workings	2	—	2	5	1	6	94	—	94
69. Fences, snowsheds, signs, guard rails	262	83	345	179	68	247	312	89	401
70. Other engineering construction	683	2,324	3,007	1,183	311	1,494	91	390	481

TABLE 12. Utilities

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction.....	1,068,528	277,316	1,365,844	1,012,866	276,263	1,289,129	1,241,197	299,514	1,540,711
Total building construction.....	118,989	30,977	149,966	99,075	30,572	129,647	93,206	33,044	126,250
Residential.....	-	-	-	-	-	-	-	-	-
Industrial.....	21,269	16,252	37,521	20,273	16,500	36,773	17,376	18,673	36,049
2. Factories, plants, workshops, food canneries.....	6,319	1,543	7,862	4,795	1,056	5,851	2,436	1,070	3,506
3. Mine and mine mill buildings.....	157	-	157	539	-	539	-	-	-
4. Railway stations, offices, roadway buildings.....	11,137	11,660	22,797	11,106	11,591	22,697	10,990	13,056	24,046
5. Railway shops, engine houses, water and fuel stations.....	3,656	3,049	6,705	3,833	3,853	7,686	3,950	4,547	8,497
Commercial.....	66,015	12,394	80,409	51,701	10,748	62,449	37,902	10,653	48,555
6. Warehouses, storehouses, refrigerated storage, etc.....	7,124	2,784	9,908	7,238	3,247	10,485	11,872	3,217	15,089
7. Grain elevators.....	20,062	6,667	26,729	23,530	5,176	28,706	10,419	5,133	15,552
8. Hotels, clubs, restaurants, cafeterias, tourist cabins.....	43	8	51	20	7	27	364	23	387
9. Office buildings.....	34,821	2,304	37,125	17,965	1,832	19,797	13,940	1,662	15,602
10. Stores, retail and wholesale.....	15	1	16	27	-	27	75	-	75
11. Garages and service stations.....	5,950	622	6,572	2,902	486	3,388	1,232	614	1,846
12. Theatres, arenas, amusement and recreational buildings.....	-	8	8	19	-	19	-	4	4
13. Laundries and dry cleaning establishments.....	-	-	-	-	-	-	-	-	-
Institutional.....	63	7	70	-	6	6	-	6	6
14. Schools and other educational buildings.....	63	5	68	-	5	5	-	4	4
15. Churches and other religious buildings.....	-	-	-	-	1	1	-	-	-
16. Hospitals, sanatoria, clinics, first-aid stations, etc.....	-	2	2	-	-	-	-	2	2
17. Other institutional buildings.....	-	-	-	-	-	-	-	-	-
Other building construction.....	29,642	2,324	31,966	27,101	3,318	30,419	37,928	3,712	41,640
18. Farm buildings (excluding dwellings).....	-	-	-	-	-	-	-	-	-
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges.....	26,434	1,763	28,197	24,128	1,648	25,776	35,307	1,661	36,968
20. Aeroplane hangars.....	2,843	42	2,885	1,814	100	1,914	466	81	547
21. Passenger terminals, bus, boat or air.....	207	298	505	150	1,468	1,618	1,405	1,870	3,275
22. Armouries, barracks, drill halls, etc.....	-	-	-	-	-	-	-	-	-
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps.....	14	77	91	473	59	532	99	51	150
24. Other building construction.....	144	144	288	536	43	579	651	49	700
Total engineering construction.....	969,539	246,339	1,215,878	913,791	245,691	1,159,482	1,147,991	286,470	1,414,461
Marine construction.....	37,639	3,914	41,553	14,471	3,214	17,685	12,921	2,942	15,863
25. Docks, wharves, piers, breakwaters.....	23,031	2,044	25,075	9,263	1,863	11,126	9,882	2,162	12,044
26. Retaining walls, embankments, ripraping.....	6	151	157	106	16	122	527	9	536
27. Canals and waterways.....	8,417	1,027	9,444	2,365	676	3,041	2,507	403	2,910
28. Dredging and pile driving.....	6,124	666	6,790	2,704	616	3,320	-	332	332
29. Dyke construction.....	-	2	2	-	2	2	-	-	-
30. Logging booms.....	4	-	4	12	21	33	5	15	20
31. Other marine construction.....	57	24	81	21	20	41	-	21	21

TABLE 13. Trade Finance and Commercial Services

TABLE 13. Trade Finance and Commercial Services — Concluded

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	6,244	372	6,616	4,921	309	5,230	4,489	343	4,832
32. Hard surfaced or paved streets, highways, parking lots, etc....	4,264	327	4,591	4,233	262	4,495	3,970	290	4,260
33. Gravel or stone streets, highways, roads, parking lots, etc.	547	29	576	290	33	323	306	38	344
34. Dirt, clay or other streets, roads, parking lots, etc.	867	4	871	26	2	28	7	2	9
35. Grading, scraping, oiling, filling.....	389	11	400	303	9	312	161	10	171
36. Sidewalks, paths	177	1	178	69	3	72	45	3	48
37. Aerodromes, landing fields, runways, tarmac	—	—	—	—	—	—	—	—	—
Waterworks and sewage systems	3,034	15	3,049	1,387	14	1,401	1,325	10	1,335
38. Tile drains, drainage ditches, storm sewers	753	5	758	346	4	350	331	4	335
39. Water mains, hydrants and services	544	2	546	748	3	751	706	—	706
40. Sewage systems and connections	1,380	8	1,368	238	7	243	288	6	294
41. Pumping stations, water	377	—	377	57	—	57	—	—	—
42. Water storage tanks	—	—	—	—	—	—	—	—	—
Dams and irrigation	34	2	36	—	—	—	—	—	—
43. Dams and reservoirs	2	2	4	—	—	—	—	—	—
44. Irrigation and land reclamation projects	32	—	32	—	—	—	—	—	—
Electric power construction	696	7	703	184	5	189	115	6	121
45. Electric power generating plants, including water conveying and controlling structures	—	—	—	—	—	—	—	1	1
46. Electric transformer stations	—	1	1	—	—	—	—	—	—
47. Power transmission and distribution lines, trolley wires	68	—	66	112	5	117	69	5	74
48. Street lighting	630	6	636	72	—	72	46	—	46
Railway, telephone and telegraph	63	16	79	20	—	20	9	—	9
49. Railway tracks and roadbed	45	16	61	8	—	8	9	—	9
50. Signals and interlockers	—	—	—	—	—	—	—	—	—
51. Telegraph and telephone lines, underground and marine cables	18	—	16	12	—	12	—	—	—
Gas and oil facilities	6,707	1,459	8,166	6,045	1,521	7,566	6,481	1,446	7,927
52. Gas mains and services	—	—	—	1	—	1	—	—	—
53. Pumping stations, oil	—	—	—	1	8	9	—	4	4
54. Pumping stations, gas	45	11	56	57	6	63	37	5	42
55. Oil storage tanks	5,789	1,442	7,231	5,386	1,496	6,884	6,037	1,427	7,464
56. Gas storage tanks	709	—	709	224	—	224	174	—	174
57. Oil pipe lines	164	6	170	375	9	364	233	10	243
58. Gas pipe lines	—	—	—	1	—	1	—	—	—
59. Oil wells	—	—	—	—	—	—	—	—	—
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery — processing units	—	—	—	—	—	—	—	—	—
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	1,443	480	1,923	636	423	1,059	764	419	1,183
63. Bridges, trestles, culverts, overpasses, viaducts	67	—	67	39	3	42	3	3	6
64. Tunnels and subways	—	—	—	—	—	—	—	—	—
65. Incinerators	1	—	1	—	—	—	4	—	4
66. Park systems, landscaping, sodding, etc.	126	2	128	85	3	88	313	3	316
67. Swimming pools, tennis courts, outdoor recreation facilities	703	453	1,156	247	402	649	65	398	463
68. Mine shafts and other below surface workings	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails	226	18	244	206	9	215	205	8	213
70. Other engineering construction	320	7	327	59	6	65	174	7	161

TABLE 14. Federal Government Departments

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Total value of construction	308,313	79,248	387,561	283,296	76,518	359,814	246,730	81,458	328,188
Total building construction	156,893	45,676	202,569	146,044	44,050	190,094	129,077	46,966	176,043
2. Factories, plants, workshops, food canneries	13,029	5,836	18,865	14,486	5,593	20,079	16,862	5,871	22,733
6. Warehouses, storehouses, refrigerated storage, etc.	2,297	1,909	4,206	2,021	1,763	3,784	1,685	1,866	3,551
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	2,209	1,352	3,561	2,180	1,313	3,493	2,021	1,375	3,396
9. Office buildings	37,265	10,332	47,597	33,920	10,151	44,071	28,770	10,732	39,502
10. Stores, retail and wholesale	78	163	239	68	161	229	60	168	228
11. Garages and service stations	1,810	531	2,341	1,635	508	2,143	1,409	535	1,944
12. Theatres, arenas, amusement and recreational buildings	3,323	909	4,232	3,041	895	3,936	2,732	941	3,673
14. Schools and other educational buildings	8,347	2,701	11,048	7,900	2,593	10,493	6,501	2,728	9,229
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	5,581	1,543	7,124	5,243	1,517	6,760	4,735	1,606	6,341
17. Other institutional buildings	2,838	183	3,021	2,524	180	2,704	2,304	189	2,493
18. Farm buildings (excluding dwellings)	1,355	240	1,595	1,209	228	1,437	1,060	238	1,298
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	39,364	428	39,792	35,785	422	36,207	30,480	447	30,927
20. Aeroplane hangars	1,987	3,351	5,338	1,764	3,311	5,075	1,547	3,486	5,033
21. Passenger terminals, bus, boat or air	22,199	125	22,324	20,413	123	20,536	17,179	131	17,310
22. Armouries, barracks, drill halls, etc.	9,749	14,138	23,887	8,807	13,378	22,185	7,588	14,659	22,247
24. Other building construction	5,464	1,935	7,399	5,048	1,914	6,962	4,144	1,994	6,138
Total engineering construction	151,420	33,572	184,992	137,252	32,468	169,720	117,653	34,492	152,145
25. Docks, wharves, piers, breakwaters	29,079	2,779	31,858	26,020	2,731	28,751	22,629	2,860	25,489
26. Retaining walls, embankments, ripraping	671	553	1,224	624	548	1,172	517	746	1,263
27. Canals and waterways	310	387	697	285	385	670	238	409	647
28. Dredging and pile driving	8,598	3,550	10,148	6,082	3,473	9,555	5,088	3,787	8,875
29. Dyke construction	838	144	980	740	144	884	651	149	800
31. Other marine construction	1,187	192	1,379	1,050	187	1,237	933	195	1,128
32. Hard surfaced or paved streets, highways, parking lots, etc.	23,438	2,600	26,038	20,644	2,517	23,161	18,103	2,657	20,760
33. Gravel or stone streets, highways, roads, parking lots, etc.	13,233	4,031	17,264	11,740	3,839	15,579	10,587	4,136	14,723
34. Dirt, clay or other streets, roads, parking lots, etc.	2,009	279	2,288	1,788	272	2,060	1,578	279	1,857
35. Grading, scraping, oiling, filling	86	795	881	86	759	845	75	796	871
37. Aerodromes, landing fields, runways, tarmac	26,431	2,314	28,745	23,956	2,288	26,244	20,534	2,375	22,909
38. Tile drains, drainage ditches, storm sewers	396	955	1,351	330	917	1,247	302	965	1,267
39. Water mains, hydrants and services	3,814	1,136	4,950	3,566	1,100	4,666	3,130	1,156	4,286
40. Sewage systems and connections	2,439	614	3,053	2,265	601	2,866	2,002	629	2,631
43. Dams and reservoirs	19,476	1,905	21,381	16,844	1,737	18,581	15,361	1,818	17,179
44. Irrigation and land reclamation projects	1,060	763	1,823	953	700	1,653	830	737	1,567
45. Electric power generating plants, including water conveying and controlling structures	2,416	1,646	4,062	4,353	1,624	5,977	1,393	1,704	3,097
46. Electric transformer stations	87	174	261	76	169	245	66	179	245
47. Power transmission and distribution lines, trolley wires	1,229	782	2,011	1,092	764	1,856	940	804	1,744
55. Oil storage tanks	1,386	79	1,465	1,260	76	1,336	1,074	79	1,153
57. Oil pipe lines	22	57	79	19	56	75	17	59	76
63. Bridges, trestles, culverts, overpasses, viaducts	6,018	779	6,797	5,121	752	5,873	4,337	790	5,127
66. Park systems, landscaping, sodding, etc.	1,705	1,905	3,610	1,525	1,870	3,395	1,326	1,947	3,273
67. Swimming pools, tennis courts, outdoor recreation facilities	754	367	1,121	666	355	1,021	591	370	961
69. Fences, snowsheds, signs, guard rails	1,693	1,752	3,445	1,521	1,682	3,203	1,322	1,761	3,083
70. Other engineering construction	5,047	3,034	8,081	4,646	2,922	7,568	4,029	3,105	7,134

TABLE 15. Provincial Government Departments

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	462,976	145,900	608,876	524,200	151,727	675,927	581,503	152,350	733,853
Total building construction	37,133	20,810	57,943	42,585	21,475	64,060	47,013	22,414	69,427
2. Factories, plants, workshops, food canneries	443	321	764	414	255	669	419	260	679
6. Warehouses, storehouses, refrigerated storage, etc.	1,123	283	1,406	1,350	309	1,659	1,536	342	1,878
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	103	31	134	134	51	185	159	54	213
9. Office buildings	16,315	9,369	25,684	19,717	9,284	29,001	21,912	9,575	31,487
11. Garages and service stations	1,820	419	2,239	1,846	650	2,496	2,067	674	2,741
12. Theatres, arenas, amusement and recreational buildings	675	738	1,413	735	534	1,269	893	527	1,420
17. Other institutional buildings	14,384	7,022	21,406	16,122	7,452	23,574	17,605	7,809	25,414
24. Other building construction	2,270	2,627	4,897	2,267	2,940	5,207	2,422	3,173	5,595
Total engineering construction	425,843	125,090	550,933	481,615	130,252	611,867	534,490	129,936	664,426
25. Docks, wharves, piers, breakwaters	1,284	190	1,474	1,209	309	1,518	1,331	322	1,653
28. Dredging and pile driving	4,973	39	5,012	7,350	63	7,413	8,911	65	8,976
31. Other marine construction	796	728	1,524	1,052	1,101	2,153	1,166	1,124	2,290
32. Hard surfaced or paved streets, highways, parking lots, etc.	189,909	40,802	230,711	217,209	44,021	261,230	247,692	43,192	290,884
33. Gravel or stone streets, highways, roads, parking lots, etc.	83,432	47,873	131,305	94,255	45,418	139,673	97,086	45,550	142,636
34. Dirt, clay or other streets, roads, parking lots, etc.	11,369	946	12,315	13,312	754	14,066	15,019	754	15,773
35. Grading, scraping, oiling, filling	9,967	11,738	21,705	11,906	14,623	26,529	15,176	14,881	30,057
38. Tile drains, drainage ditches, storm sewers	980	1,499	2,479	1,181	2,182	3,363	1,418	2,262	3,680
39. Water mains, hydrants and services	91	37	128	98	41	139	111	47	158
43. Dams and reservoirs	165	—	165	243	—	243	294	—	294
44. Irrigation and land reclamation projects	4,835	2	4,837	6,314	2	6,316	7,378	2	7,380
47. Power transmission and distribution lines, trolley wires	839	4	843	1,235	7	1,242	1,496	7	1,503
51. Telegraph and telephone lines, underground and marine cables	669	19	688	835	16	851	1,099	16	1,115
63. Bridges, trestles, culverts, overpasses, viaducts	109,707	12,203	121,910	116,743	11,611	128,354	126,083	11,303	137,386
66. Park systems, landscaping, sodding, etc.	953	1,530	2,483	997	2,119	3,116	1,128	2,219	3,347
67. Swimming pools, tennis courts, outdoor recreation facilities	103	41	144	144	66	210	178	69	247
69. Fences, snowsheds, signs, guard rails	1,191	2,511	3,702	1,425	3,411	4,836	1,670	3,554	5,224
70. Other engineering construction	4,560	4,928	9,508	6,107	4,508	10,615	7,254	4,569	11,823

TABLE 16. Municipal Government Departments¹

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	353,664	97,588	451,252	373,147	98,010	471,157	413,574	100,485	514,059
Total building construction	56,765	10,141	66,906	60,230	10,058	70,288	67,342	10,266	77,608
9. Office buildings	11,967	2,081	14,048	12,758	2,102	14,860	13,969	2,155	16,124
12. Theatres, arenas, amusement and recreational buildings	22,185	3,444	25,629	23,544	3,291	26,835	26,193	3,330	29,523
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	7,167	318	7,485	7,523	323	7,846	8,776	329	9,105
24. Other building construction	15,446	4,298	19,744	16,405	4,342	20,747	18,404	4,452	22,856
Total engineering construction	296,899	87,447	384,346	312,917	87,852	400,869	346,232	90,219	436,451
32. Hard surfaced or paved streets, highways, parking lots, etc.	135,396	58,935	194,331	142,518	59,404	201,922	157,376	61,032	218,408
36. Sidewalks, paths	15,051	4,130	19,181	15,762	4,163	19,925	16,823	4,269	21,092
40. Sewage systems and connections	93,451	11,864	105,315	98,816	11,816	110,632	109,003	12,173	121,176
48. Street lighting	4,557	3,088	7,645	4,995	2,983	7,976	5,348	3,033	8,381
63. Bridges, trestles, culverts, overpasses, viaducts	29,578	2,841	32,417	30,878	2,951	33,829	35,309	2,995	38,304
70. Other engineering construction	18,868	6,589	25,457	19,948	6,635	26,583	22,373	8,717	29,090

¹ Due to a change in the method of collecting municipal statistics further detail is no longer available.

TABLE 17. Housing and Institutional Services

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Residential	1,467,000	484,000	1,951,000	1,587,000	513,000	2,100,000	1,571,100	544,000	2,115,100
Institutional:									
Total value of work performed	535,851	64,495	800,446	701,206	62,874	764,080	721,248	65,499	786,745
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	537	35	572	862	8	870	1,500	11	1,511
9. Office buildings	175	—	175	220	2	222	—	—	—
12. Theatres, arenas, amusement and recreational buildings	2,226	38	2,264	1,627	15	1,642	1,006	14	1,020
14. Schools and other educational buildings	312,359	35,851	348,210	476,745	38,409	513,154	475,104	36,839	512,043
15. Churches and other religious buildings	58,590	8,830	68,420	53,286	6,504	59,790	47,700	6,098	53,798
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	144,128	18,055	162,181	148,463	18,140	166,603	167,959	20,340	188,299
17. Other institutional buildings	9,959	1,220	11,179	9,764	1,306	11,070	20,593	1,378	21,971
18. Farm buildings (excluding dwellings)	144	48	192	11	40	51	3	43	46
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	4,351	117	4,468	8,039	78	8,117	3,286	107	3,393
24. Other building construction	828	17	845	176	9	185	592	1	593
Total engineering construction	1,656	284	1,940	2,013	363	2,376	3,503	568	4,071

VALUE OF CONSTRUCTION WORK PERFORMED, BY TYPE OF STRUCTURE - PROVINCES, 1961-63

TABLE 18. Newfoundland

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	144,648	24,843	169,491	184,533	27,259	211,812	148,163	29,598	177,761
Total building construction	83,301	13,882	97,183	117,831	13,371	131,202	91,229	14,963	106,192
Residential	24,800	8,200	33,000	21,500	7,200	28,700	22,000	7,600	29,600
Industrial	32,395	1,556	33,951	51,500	1,902	53,402	41,135	2,732	43,867
Commercial	6,050	1,594	9,644	6,711	1,678	8,389	7,494	1,862	9,356
Institutional	13,333	1,515	14,848	33,888	1,482	35,370	15,488	1,685	17,173
Other building construction	4,723	1,017	5,740	4,232	1,109	5,341	5,112	1,084	6,196
Total engineering construction	61,347	10,961	72,308	66,722	13,888	80,610	56,934	14,835	71,569
Marine construction	20,128	1,255	21,383	18,458	1,499	19,957	11,858	1,785	13,643
Road, highway and aerodrome construction	10,655	5,981	16,636	18,364	8,934	27,298	18,683	9,113	27,796
Waterworks and sewage systems	2,513	813	3,328	3,263	705	3,968	4,106	887	4,993
Dams and irrigation	275	77	352	480	70	550	595	32	627
Electric power construction	14,475	981	15,456	12,145	828	12,973	16,784	621	17,405
Railway, telephone and telegraph	5,510	1,045	6,555	7,299	1,006	8,305	2,248	1,415	3,663
Gas and oil facilities	5,715	35	5,750	152	15	167	146	14	160
Other engineering construction	2,076	774	2,850	6,561	831	7,392	2,514	788	3,282

TABLE 19. Prince Edward Island

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	24,975	7,279	32,254	28,941	7,109	36,050	27,593	7,397	34,990
Total building construction	14,827	4,069	18,896	17,740	4,638	22,378	16,119	4,842	20,961
Residential	6,000	1,900	7,900	7,600	2,600	10,400	7,900	2,700	10,600
Industrial	1,099	219	1,318	182	253	435	242	332	574
Commercial	2,784	538	3,322	2,691	465	3,156	2,962	491	3,453
Institutional	3,402	332	3,734	5,604	320	5,924	3,655	257	3,912
Other building construction	1,542	1,080	2,622	1,463	1,000	2,463	1,360	1,062	2,422
Total engineering construction	10,148	3,210	13,358	11,201	2,471	13,672	11,474	2,555	14,029
Marine construction	1,238	570	1,808	1,028	470	1,498	971	523	1,494
Road, highway and aerodrome construction	5,778	1,480	7,258	6,661	1,062	7,723	6,511	1,086	7,597
Waterworks and sewage systems	351	164	515	201	74	275	135	70	205
Dams and irrigation	32	48	80	33	50	83	33	48	81
Electric power construction	1,410	203	1,613	1,822	205	2,127	2,688	215	2,903
Railway, telephone and telegraph	570	204	774	690	167	857	628	175	803
Gas and oil facilities	253	4	257	47	—	47	19	—	19
Other engineering construction	516	537	1,053	619	443	1,062	489	438	927

TABLE 20. Nova Scotia

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	150,799	54,046	204,845	150,265	52,507	202,772	163,255	55,950	219,205
Total building construction	106,888	31,673	138,561	105,968	28,602	134,570	96,916	29,288	126,204
Residential	49,300	16,400	65,700	44,100	14,400	58,500	44,000	15,200	59,200
Industrial	12,716	2,935	15,651	7,223	2,778	10,001	6,063	2,925	8,988
2. Factories, plants, workshops, food canneries	11,981	2,498	14,479	5,902	2,241	8,143	5,477	2,258	7,735
3. Mine and mine mill buildings	310	6	316	849	38	887	88	93	181
4. Railway stations, offices, roadway buildings	309	296	605	302	337	639	319	392	711
5. Railway shops, engine houses, water and fuel stations	116	135	251	170	162	332	179	182	361
Commercial	14,944	4,922	19,866	14,669	4,121	18,790	13,546	3,781	17,327
6. Warehouses, storehouses, refrigerated storage, etc.	1,694	677	2,371	964	694	1,658	1,390	710	2,100
7. Grain elevators	31	66	97	1	95	96	1	85	86
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	628	1,081	1,709	1,030	267	1,297	1,181	271	1,452
9. Office buildings	4,904	1,487	6,391	4,342	1,677	6,019	4,683	1,383	6,066
10. Stores, retail and wholesale	5,928	900	6,828	5,694	767	6,461	3,523	757	4,280
11. Garages and service stations	1,389	399	1,768	2,395	284	2,879	2,511	223	2,734
12. Theatres, arenas, amusement and recreational buildings	228	308	536	243	308	551	257	323	580
13. Laundries and dry cleaning establishments	162	4	166	—	29	29	—	29	29
Institutional	21,188	2,501	23,689	32,539	2,535	35,074	26,801	2,307	29,108
14. Schools and other educational buildings	11,569	1,117	12,686	19,400	1,278	20,678	11,038	1,046	12,084
15. Churches and other religious buildings	2,543	249	2,792	2,134	332	2,466	1,019	285	1,304
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	4,483	754	5,217	7,259	477	7,736	11,468	513	11,981
17. Other institutional buildings	2,613	381	2,994	3,746	448	4,194	3,278	463	3,739
Other building construction	8,740	4,915	13,655	7,437	4,768	12,205	6,506	5,075	11,581
18. Farm buildings (excluding dwellings)	2,253	1,324	3,577	2,345	1,378	3,723	2,322	1,367	3,689
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	2,523	142	2,685	2,132	91	2,223	1,767	78	1,845
20. Aeroplane hangars	801	527	1,328	1,198	527	1,725	451	554	1,005
21. Passenger terminals, bus, boat or air	230	22	252	239	11	250	565	7	572
22. Armouries, barracks, drill halls, etc.	1,105	1,857	2,962	980	1,719	2,699	859	1,954	2,813
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	1,337	92	1,429	78	73	151	74	74	148
24. Other building construction	491	951	1,442	465	969	1,434	468	1,041	1,509
Total engineering construction	43,911	22,373	66,284	44,297	23,905	68,202	66,339	26,662	93,001
Marine construction	4,582	1,781	6,363	3,820	1,743	5,563	4,150	1,812	5,962
25. Docks, wharves, piers, breakwaters	3,655	1,062	4,717	2,839	1,088	3,927	3,428	1,126	4,554
26. Retaining walls, embankments, ripraping	36	30	68	61	25	86	28	23	51
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	134	519	653	252	519	771	104	546	650
29. Dyke construction	729	101	830	646	101	747	567	106	673
30. Logging booms	6	—	6	—	—	—	—	—	—
31. Other marine construction	22	69	91	22	10	32	23	11	34

TABLE 20. Nova Scotia - Concluded

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	Thousands of dollars								
Road, highway and aerodrome construction	16,196	9,633	25,829	18,055	11,235	29,290	20,555	11,875	32,430
32. Hard surfaced or paved streets, highways, parking lots, etc.	13,622	5,733	19,355	15,129	6,775	21,904	17,354	7,216	24,572
33. Gravel or stone streets, highways, roads, parking lots, etc.	1,506	3,307	4,813	1,522	3,882	5,404	1,776	4,038	5,814
34. Dirt, clay or other streets, roads, parking lots, etc.	424	283	707	507	251	758	369	249	616
35. Grading, scraping, oiling, filling	1	24	25	—	23	23	—	24	24
36. Sidewalks, paths	309	98	407	566	116	682	796	148	944
37. Aerodromes, landing fields, runways, tarmac	334	188	522	331	188	519	260	198	458
Waterworks and sewage systems	4,008	989	4,997	3,452	958	4,410	6,326	1,018	7,344
38. Tile drains, drainage ditches, storm sewers	15	39	54	14	40	54	256	42	298
39. Water mains, hydrants and services	1,997	694	2,691	970	638	1,808	2,669	636	3,327
40. Sewage systems and connections	1,456	213	1,671	2,410	243	2,653	3,357	294	3,651
41. Pumping stations, water	439	43	482	58	37	95	24	44	66
42. Water storage tanks	99	—	99	—	—	—	—	—	—
Dams and irrigation	1,101	122	1,223	570	125	695	804	233	1,037
43. Dams and reservoirs	969	49	1,016	434	49	463	670	158	828
44. Irrigation and land reclamation projects	132	73	205	136	76	212	134	75	209
Electric power construction	6,082	1,646	7,728	5,822	1,832	7,654	12,472	2,423	14,895
45. Electric power generating plants, including water conveying and controlling structures	1,998	268	2,266	629	230	859	3,433	326	3,759
46. Electric transformer stations	270	39	309	270	61	331	1,571	155	1,726
47. Power transmission and distribution lines, trolley wires	3,609	1,268	4,877	4,469	1,399	5,868	7,004	1,792	6,796
48. Street lighting	205	71	276	454	142	596	464	150	614
Railway, telephone and telegraph	5,995	4,047	10,042	5,500	3,757	9,257	5,719	4,362	10,081
49. Railway tracks and roadbed	3,000	3,074	6,074	2,516	3,051	5,569	2,717	3,477	6,194
50. Signals and interlockers	171	175	346	170	166	356	180	216	396
51. Telegraph and telephone lines, underground and marine cables	2,824	798	3,622	2,812	520	3,332	2,622	669	3,491
Gas and oil facilities	235	1,485	1,720	1,645	1,469	3,114	9,975	1,666	11,641
52. Gas mains and services	6	—	6	—	—	—	—	—	—
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	14	14	—	—	—	—	—	—
55. Oil storage tanks	169	49	238	470	29	499	1,706	24	1,730
56. Gas storage tanks	40	—	40	—	—	—	—	—	—
57. Oil pipe lines	—	38	38	44	40	84	1,100	42	1,142
58. Gas pipe lines	—	—	—	—	—	—	—	—	—
59. Oil wells	—	—	—	—	—	—	150	—	150
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery - processing units	—	1,384	1,384	1,131	1,400	2,531	7,019	1,600	6,619
62. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	5,712	2,670	8,382	5,433	2,786	8,219	6,338	3,273	9,611
63. Bridges, trestles, culverts, overpasses, viaducts	3,219	1,728	4,947	3,356	1,879	5,235	3,776	2,062	5,838
64. Tunnels and subways	—	24	24	1	24	25	1	25	26
65. Incinerators	—	1	1	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.	37	252	289	39	250	289	33	263	296
67. Swimming pools, tennis courts, outdoor recreation facilities	4	31	35	4	31	35	3	33	36
68. Mine shafts and other below surface workings	327	232	559	201	214	415	769	474	1,243
69. Fences, snowsheds, signs, guard rails	436	190	626	391	172	563	494	183	677
70. Other engineering construction	1,689	212	1,901	1,441	216	1,657	1,262	233	1,495

TABLE 21. New Brunswick

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction.....	115,876	41,367	157,243	110,865	42,818	153,683	111,946	44,054	156,000
Total building construction.....	62,120	18,731	80,871	66,246	18,715	84,961	67,706	19,581	87,287
Residential.....	28,600	9,700	38,300	30,000	9,700	39,700	29,900	10,300	40,200
Industrial.....	4,477	2,726	7,203	5,754	2,561	8,315	8,239	2,919	12,158
2. Factories, plants, workshops, food canneries.....	3,536	1,874	5,410	4,377	1,373	5,750	7,984	1,610	9,594
3. Mine and mine mill buildings.....	187	—	187	182	13	195	34	18	52
4. Railway stations, offices, roadway buildings.....	530	556	1,086	472	555	1,027	461	633	1,094
5. Railway shops, engine houses, water and fuel stations.....	224	296	520	723	620	1,343	760	658	1,418
Commercial.....	12,614	3,203	15,817	10,847	3,348	14,195	8,925	3,227	13,152
6. Warehouses, storehouses, refrigerated storage, etc.	1,378	466	1,844	884	471	1,355	1,109	450	1,559
7. Grain elevators.....	8	101	109	4	36	40	2	29	31
8. Hotels, clubs, restaurants, cafeterias, tourist cabins.....	561	250	811	384	256	640	232	257	489
9. Office buildings.....	4,628	1,361	5,989	4,800	1,528	6,328	4,545	1,497	6,042
10. Stores, retail and wholesale.....	3,054	619	3,673	2,704	615	3,319	2,532	637	3,169
11. Garages and service stations.....	1,267	301	1,568	907	296	1,203	1,119	248	1,367
12. Theatres, arenas, amusement and recreational buildings.....	1,523	76	1,599	1,084	65	1,149	338	69	407
13. Laundries and dry cleaning establishments.....	195	29	224	80	81	161	48	40	88
Institutional.....	12,538	1,114	13,632	13,576	1,066	16,662	13,871	989	14,860
14. Schools and other educational buildings.....	7,411	247	7,658	9,827	264	10,091	8,682	232	8,914
15. Churches and other religious buildings.....	1,807	215	2,022	2,057	208	2,265	1,481	115	1,596
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	2,997	600	3,597	3,426	572	3,998	3,384	604	3,988
17. Other institutional buildings.....	323	52	375	266	42	308	324	38	362
Other building construction.....	3,891	2,008	5,899	4,069	2,020	6,089	4,771	2,146	6,917
18. Farm buildings (excluding dwellings).....	2,127	1,232	3,359	2,136	1,280	3,416	2,088	1,269	3,357
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges.....	1,058	117	1,175	960	137	1,097	1,273	139	1,412
20. Aeroplane hangars.....	53	72	125	46	72	118	42	72	114
21. Passenger terminals, bus, boat or air.....	—	7	7	2	3	5	—	2	2
22. Armouries, barracks, drill halls, etc.	170	327	497	149	185	334	133	327	460
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps.....	191	181	372	468	276	744	936	268	1,204
24. Other building construction.....	292	72	364	308	67	375	299	69	368
Total engineering construction.....	53,756	22,616	76,372	44,619	24,103	68,722	44,240	24,473	68,713
Marine construction.....	3,998	802	4,800	5,038	778	5,816	2,059	832	2,891
25. Docks, wharves, piers, breakwaters.....	3,209	347	3,556	4,339	350	4,689	1,443	385	1,828
26. Retaining walls, embankments, ripraping.....	23	2	25	20	—	20	18	8	26
27. Canals and waterways.....	—	2	2	—	—	—	—	5	5
28. Dredging and pile driving.....	654	359	1,013	573	336	909	513	344	857
29. Dyke construction.....	107	40	147	94	40	134	84	40	124
30. Logging booms.....	4	20	24	11	20	31	—	18	18
31. Other marine construction.....	1	32	33	1	32	33	1	32	33

TABLE 21. New Brunswick — Concluded

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	20,223	10,733	30,956	15,843	12,253	28,096	18,111	11,728	29,839
32. Hard surfaced or paved streets, highways, parking lots, etc.	11,503	2,793	14,296	8,803	2,973	11,776	10,245	2,895	13,140
33. Gravel or stone streets, highways, roads, parking lots, etc.	6,152	7,256	13,408	4,593	8,380	12,973	5,497	7,920	13,417
34. Dirt, clay or other streets, roads, parking lots, etc.	964	584	1,548	1,000	803	1,803	1,053	813	1,866
35. Grading, scraping, oiling, filling	—	18	18	—	19	19	1	19	20
36. Sidewalks, paths	238	39	277	253	35	288	245	38	283
37. Aerodromes, landing fields, runways, tarmac	1,366	43	1,409	1,194	43	1,237	1,070	43	1,113
Waterworks and sewage systems	2,951	1,060	4,011	3,002	1,050	4,052	2,828	1,114	3,942
38. Tile drains, drainage ditches, storm sewers	—	11	11	43	4	47	27	4	31
39. Water mains, hydrants and services	1,277	810	2,087	1,155	840	1,995	1,119	897	2,016
40. Sewage systems and connections	1,552	210	1,762	1,626	193	1,819	1,578	200	1,778
41. Pumping stations, water	88	29	117	105	12	117	104	11	115
42. Water storage tanks	34	—	34	73	1	74	—	2	2
Dams and irrigation	462	96	558	272	81	353	450	82	532
43. Dams and reservoirs	362	26	388	168	8	176	347	10	357
44. Irrigation and land reclamation projects	100	70	170	104	73	177	103	72	175
Electric power construction	10,927	1,117	12,044	7,774	1,051	8,825	6,987	1,100	8,087
45. Electric power generating plants, including water conveying and controlling structures	4,045	319	4,364	2,794	140	2,934	2,195	189	2,384
46. Electric transformer stations	1,031	15	1,046	579	54	633	361	56	417
47. Power transmission and distribution lines, trolley wires	5,504	706	6,210	4,180	790	4,970	4,205	788	4,993
48. Street lighting	347	77	424	221	67	288	226	67	293
Railway, telephone and telegraph	6,820	5,923	12,743	7,010	6,063	13,073	7,708	6,792	14,500
49. Railway tracks and roadbed	4,352	4,885	9,237	3,880	4,738	8,618	3,863	5,393	9,256
50. Signals and interlockers	259	347	606	270	336	606	258	378	636
51. Telegraph and telephone lines, underground and marine cables	2,209	691	2,900	2,860	989	3,849	3,587	1,021	4,608
Gas and oil facilities	2,146	516	2,662	508	422	930	612	412	1,024
52. Gas mains and services	—	—	—	—	—	—	—	—	—
53. Pumping stations, oil	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas	—	—	—	—	—	—	—	—	—
55. Oil storage tanks	1,923	43	1,966	334	20	354	356	10	366
56. Gas storage tanks	32	—	32	—	—	—	—	—	—
57. Oil pipe lines	56	—	56	46	—	46	127	—	127
58. Gas pipe lines	—	—	—	—	—	—	—	—	—
59. Oil wells	—	—	—	—	—	—	—	—	—
60. Gas wells	—	—	—	—	—	—	—	—	—
61. Oil refinery — processing units	135	473	608	128	402	530	129	402	531
82. Natural gas cleaning plants	—	—	—	—	—	—	—	—	—
Other engineering construction	6,229	2,369	8,598	5,172	2,403	7,577	5,485	2,413	7,898
63. Bridges, trestles, culverts, overpasses, viaducts	5,024	1,645	6,669	4,052	1,718	5,770	4,298	1,717	6,015
64. Tunnels and subways	1	26	27	4	26	30	1	26	27
65. Incinerators	—	—	—	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.	38	158	196	36	161	197	42	160	202
67. Swimming pools, tennis courts, outdoor recreation facilities	268	—	268	235	1	236	210	1	211
68. Mine shafts and other below surface workings	330	91	421	427	30	457	489	30	519
69. Fences, snowsheds, signs, guard rails	379	203	582	299	191	490	337	200	537
70. Other engineering construction	189	246	435	119	278	397	108	279	387

TABLE 24. Manitoba

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	283,409	86,253	369,662	288,644	82,014	370,658	335,946	84,079	420,025
Total building construction	170,912	49,441	220,353	146,173	46,703	192,876	154,689	47,062	201,751
Residential	67,100	22,300	89,400	59,200	19,000	78,200	58,100	20,100	78,200
Industrial	10,643	5,226	15,869	10,443	6,001	16,444	18,748	8,311	23,057
2. Factories, plants, workshops, food canneries	6,863	2,389	9,252	7,561	3,670	11,231	14,015	3,423	17,438
3. Mine and mine mill buildings	1,833	280	2,113	1,218	324	1,542	814	350	1,164
4. Railway stations, offices, roadway buildings	1,034	1,449	2,483	1,212	1,290	2,502	1,391	1,441	2,832
5. Railway shops, engine houses, water and fuel stations	913	1,108	2,021	452	717	1,169	526	1,097	1,623
Commercial	26,245	6,316	32,561	23,292	6,052	29,344	24,547	5,968	30,515
6. Warehouses, storehouses, refrigerated storage, etc.	3,235	743	3,978	2,520	802	3,322	2,829	747	3,576
7. Grain elevators	1,328	695	2,023	1,127	576	1,703	488	515	1,003
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	3,311	656	3,967	2,146	456	2,602	2,413	570	2,983
9. Office buildings	7,889	1,440	9,329	7,554	1,568	9,122	9,013	1,636	10,649
10. Stores, retail and wholesale	5,567	1,739	7,306	5,491	1,628	7,119	4,574	1,505	6,079
11. Garages and service stations	1,980	452	2,432	1,070	456	1,526	964	419	1,383
12. Theatres, arenas, amusement and recreational buildings	2,892	511	3,403	3,266	519	3,785	4,268	517	4,783
13. Laundries and dry cleaning establishments	43	80	123	118	47	185	—	59	59
Institutional	40,362	8,230	48,592	26,486	8,223	34,709	28,807	7,222	36,029
14. Schools and other educational buildings	29,685	7,131	36,816	22,094	7,115	29,209	19,055	6,133	25,188
15. Churches and other religious buildings	3,894	121	4,015	888	186	1,074	2,579	95	2,674
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	6,369	842	7,211	3,031	731	3,762	8,206	810	7,016
17. Other institutional buildings	414	136	550	473	191	664	967	184	1,151
Other building construction	28,562	7,369	33,931	26,752	7,427	34,179	26,489	7,461	33,950
18. Farm buildings (excluding dwellings)	12,923	4,318	17,241	13,621	4,559	18,180	13,208	4,423	17,631
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	5,175	221	5,396	4,925	242	5,167	5,767	233	6,000
20. Aeroplane hangars	201	305	506	117	304	421	92	318	410
21. Passenger terminals, bus, boat or air	6,010	51	6,061	5,647	12	5,659	4,667	15	4,682
22. Armouries, barracks, drill halls, etc.	845	1,986	2,831	794	1,886	2,680	656	2,069	2,725
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	139	191	330	158	106	264	184	79	263
24. Other building construction	1,269	297	1,566	1,490	318	1,808	1,915	324	2,239
Total engineering construction	112,497	36,812	149,309	142,471	35,311	177,782	181,257	37,017	218,274
Marine construction	2,188	354	2,542	1,370	334	1,704	750	350	1,100
25. Docks, wharves, piers, breakwaters	1,820	130	1,950	816	101	917	719	110	829
26. Retaining walls, embankments, ripraping	9	1	10	11	1	12	15	1	16
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	359	221	580	543	230	773	18	237	253
29. Dyke construction	—	1	1	—	1	1	—	1	1
30. Logging booms	—	—	—	—	—	—	—	—	—
31. Other marine construction	—	1	1	—	1	1	—	1	1

TABLE 24. Manitoba — Concluded

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	31,927	7,268	39,195	38,303	8,168	46,471	48,917	7,979	56,896
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	16,836	5,147	21,983	20,278	6,111	26,389	26,232	5,975	32,207
33. Gravel or stone streets, highways, roads, parking lots, etc. ..	4,479	917	5,396	5,490	898	6,388	7,314	903	6,217
34. Dirt, clay or other streets, roads, parking lots, etc.	184	111	295	193	100	293	165	103	268
35. Grading, scraping, oiling, filling	7,752	862	8,614	9,705	795	10,500	12,855	733	13,588
36. Sidewalks, paths	379	177	556	439	210	649	567	207	774
37. Aerodromes, landing fields, runways, tarmac	2,297	54	2,351	2,198	54	2,252	1,784	58	1,842
Waterworks and sewage systems	10,082	1,585	11,667	9,345	1,861	11,206	16,539	1,869	18,408
38. Tile drains, drainage ditches, storm sewers	672	129	801	567	95	662	651	92	743
39. Water mains, hydrants and services	5,591	1,043	6,634	3,961	1,299	5,260	6,373	1,322	7,695
40. Sewage systems and connections	3,418	357	3,775	3,792	418	4,210	4,493	408	4,901
41. Pumping stations, water	210	58	266	541	48	589	1,544	43	1,587
42. Water storage tanks	191	—	191	484	1	485	3,478	4	3,482
Dams and irrigation	1,436	575	2,011	1,408	605	2,013	1,292	604	1,896
43. Dams and reservoirs	365	334	699	317	351	668	284	357	641
44. Irrigation and land reclamation projects	1,071	241	1,312	1,091	254	1,345	1,008	247	1,255
Electric power construction	29,572	1,761	31,333	47,417	2,092	49,509	57,111	2,151	59,262
45. Electric power generating plants, including water conveying and controlling structures	19,866	410	20,276	24,777	951	25,728	29,901	1,013	30,914
46. Electric transformer stations	781	822	1,603	1,923	433	2,356	2,228	437	2,665
47. Power transmission and distribution lines, trolley wires	7,820	418	8,238	19,200	679	19,879	23,314	671	23,985
48. Street lighting	1,105	111	1,216	1,517	29	1,546	1,868	30	1,698
Railway, telephone and telegraph	18,779	16,730	35,529	18,186	16,194	34,380	16,899	17,631	34,530
49. Railway tracks and roadbed	11,223	12,813	24,036	9,338	11,245	20,583	10,837	12,508	23,345
50. Signals and interlockers	571	627	1,198	711	803	1,514	854	886	1,740
51. Telegraph and telephone lines, underground and marine cables	6,985	3,310	10,295	8,137	4,146	12,283	5,208	4,237	9,445
Gas and oil facilities	7,573	1,629	9,204	14,952	1,864	16,816	25,338	1,986	27,324
52. Gas mains and services	4,077	400	4,477	5,509	—	5,509	5,972	—	5,972
53. Pumping stations, oil	50	245	295	497	234	731	54	238	292
54. Pumping stations, gas	2,518	—	2,518	4,216	—	4,218	2,713	—	2,713
55. Oil storage tanks	260	112	372	765	99	864	364	118	482
56. Gas storage tanks	182	—	182	14	—	14	1,134	—	1,134
57. Oil pipe lines	13	72	85	60	73	133	5,216	79	5,295
58. Gas pipe lines	110	—	110	1,938	—	1,938	6,713	—	6,713
59. Oil wells	202	239	441	122	64	186	198	73	271
60. Gas wells	—	—	—	313	136	449	875	145	1,020
61. Oil refinery — processing units	163	561	724	1,516	1,258	2,774	2,099	1,333	3,432
62. Natural gas clearing palms	—	—	—	—	—	—	—	—	—
Other engineering construction	10,938	6,890	17,828	11,490	4,193	15,683	14,411	4,447	18,858
63. Bridges, trestles, culverts, overpasses, viaducts	4,635	1,849	6,484	5,087	2,011	7,098	6,485	2,124	8,609
64. Tunnels and subways	—	—	—	24	—	24	35	—	35
65. Incinerators	18	—	18	—	—	—	—	—	—
66. Park systems, landscaping, sodding, etc.	595	221	818	572	221	793	600	226	826
67. Swimming pools, tennis courts, outdoor recreation facilities	64	22	86	99	25	124	480	25	505
68. Mine shafts and other below surface workings	3,607	765	4,372	3,556	243	3,799	4,448	320	4,768
69. Fences, snowsheds, signs, guard rails	1,158	625	1,783	1,097	554	1,651	1,031	570	1,601
70. Other engineering construction	861	3,408	4,269	1,055	1,139	2,194	1,332	1,182	2,514

TABLE 25. Saskatchewan

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	301,754	81,267	383,021	321,914	82,267	404,181	312,719	88,138	400,857
Total building construction	147,846	43,817	191,663	166,835	45,684	212,519	171,155	47,838	218,993
Residential	66,700	21,800	88,500	74,900	24,100	99,000	73,800	25,600	99,400
Industrial	6,889	2,414	9,303	7,742	3,123	10,865	5,779	3,000	8,778
2. Factories, plants, workshops, food canneries	4,425	865	5,290	3,011	1,202	4,213	4,430	1,128	5,558
3. Mine and mine mill buildings	1,171	137	1,308	3,397	370	3,767	48	107	155
4. Railway stations, offices, roadway buildings	813	1,063	1,976	963	1,139	2,102	912	1,283	2,195
5. Railway shops, engine houses, water and fuel stations	380	349	729	371	412	783	389	482	871
Commercial	26,125	6,654	32,779	24,411	5,765	30,176	25,932	6,468	32,400
6. Warehouses, storehouses, refrigerated storage, etc.	4,833	431	5,264	2,329	509	2,838	1,609	534	2,143
7. Grain elevators	5,764	2,396	8,160	4,504	1,749	6,253	1,971	1,606	3,577
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	2,026	407	2,433	2,376	423	2,799	2,467	936	3,403
9. Office buildings	6,661	1,605	8,266	9,053	1,649	10,702	14,738	1,922	16,660
10. Stores, retail and wholesale	3,755	1,218	4,973	3,511	1,020	4,531	3,468	1,018	4,486
11. Garages and service stations	1,652	361	2,013	1,313	210	1,523	616	228	844
12. Theatres, arenas, amusement and recreational buildings	1,434	222	1,656	1,325	185	1,510	1,063	208	1,271
13. Laundries and dry cleaning establishments	—	14	14	—	20	20	—	16	16
Institutional	25,118	5,328	30,447	34,388	4,310	38,698	38,662	4,583	43,245
14. Schools and other educational buildings	16,225	3,540	19,765	21,301	2,795	24,096	19,429	2,954	22,383
15. Churches and other religious buildings	3,238	358	3,596	4,857	142	4,999	3,195	166	3,361
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	4,750	1,098	5,848	6,876	1,111	7,987	14,476	1,139	15,615
17. Other institutional buildings	905	333	1,238	1,354	282	1,618	1,562	324	1,886
Other building construction	23,014	7,620	30,634	25,394	8,386	33,780	26,982	8,187	35,169
18. Farm buildings (excluding dwellings)	17,124	6,878	24,003	19,135	7,691	26,828	18,457	7,429	25,886
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	4,799	100	4,899	5,232	101	5,333	7,319	112	7,431
20. Aeroplane hangars	4	66	70	28	58	86	3	60	63
21. Passenger terminals, bus, boat or air	31	8	39	29	14	43	25	16	41
22. Armouries, barracks, drill halls, etc.	297	285	582	256	249	505	234	260	494
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	116	72	188	126	64	190	409	66	475
24. Other building construction	643	210	853	588	209	797	535	244	779
Total engineering construction	153,908	37,450	191,358	155,079	36,583	191,662	141,564	40,300	181,864
Marine construction	243	53	296	153	46	199	146	55	201
25. Docks, wharves, piers, breakwaters	181	49	230	153	43	196	146	52	198
26. Retaining walls, embankments, ripraping	—	2	2	—	1	1	—	2	2
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	—	—	—	—	—	—	—	—	—
29. Dyke construction	62	—	62	—	—	—	—	—	—
30. Logging booms	—	—	—	—	—	—	—	—	—
31. Other marine construction	—	2	2	—	2	2	—	1	1

TABLE 26. Alberta

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	721,545	155,174	876,719	662,313	150,894	813,207	675,577	158,250	833,827
Total building construction	307,857	82,373	390,230	363,621	89,051	452,672	350,097	93,158	443,255
Residential	146,900	48,400	195,300	173,600	55,900	229,500	171,200	59,300	230,500
Industrial	9,593	4,199	13,792	12,551	4,688	17,239	12,699	4,758	17,457
2. Factories, plants, workshops, food canneries	6,698	2,610	9,308	10,405	3,018	13,423	11,271	2,945	14,216
3. Mine and mine mill buildings	160	1	161	553	44	597	35	28	63
4. Railway stations, offices, roadway buildings	2,168	1,116	3,284	1,254	1,144	2,398	1,023	1,250	2,273
5. Railway shops, engine houses, water and fuel stations	567	472	1,039	339	482	821	370	535	905
Commercial	50,812	12,921	83,733	48,389	10,461	58,850	48,000	10,281	58,281
6. Warehouses, storehouses, refrigerated storage, etc.	3,223	1,063	4,286	5,501	1,048	6,549	2,218	1,066	3,284
7. Grain elevators	3,164	1,373	4,537	2,477	988	3,465	1,077	933	2,010
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	3,096	1,263	4,359	2,373	1,106	3,479	5,721	1,000	6,721
9. Office buildings	27,868	5,401	33,267	21,285	3,925	25,210	21,623	3,819	25,442
10. Stores, retail and wholesale	7,335	2,084	9,419	9,488	2,020	11,508	10,417	2,046	12,463
11. Garages and service stations	2,399	693	3,092	2,961	595	3,556	2,979	588	3,567
12. Theatres, arenas, amusement and recreational buildings	3,626	941	4,567	4,118	671	4,789	3,671	705	4,376
13. Laundries and dry cleaning establishments	103	103	206	188	108	294	294	124	418
Institutional	54,349	6,271	60,620	82,104	6,178	88,282	72,497	6,794	79,291
14. Schools and other educational buildings	28,556	3,856	32,412	62,851	4,066	66,917	47,804	4,537	52,341
15. Churches and other religious buildings	3,186	201	3,387	2,841	162	3,003	1,998	157	2,155
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	17,513	1,507	19,020	12,092	1,512	13,604	17,186	1,692	18,878
17. Other institutional buildings	5,094	707	5,801	4,320	438	4,756	5,509	408	5,917
Other building construction	46,203	10,582	56,785	46,977	11,824	58,801	45,701	12,025	57,726
18. Farm buildings (excluding dwellings)	32,216	8,537	40,753	37,708	10,010	47,718	36,666	9,770	46,436
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	8,341	375	8,716	4,216	310	4,526	4,623	316	4,939
20. Aeroplane hangers	121	333	454	106	272	378	94	288	382
21. Passenger terminals, bus, boat or air	1,945	33	1,978	1,728	39	1,767	1,527	382	1,909
22. Armouries, barracks, drill halls, etc.	1,696	965	2,661	1,499	889	2,388	1,335	938	2,273
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	566	146	712	394	144	538	195	166	361
24. Other building construction	1,318	193	1,511	1,326	160	1,486	1,281	165	1,426
Total engineering construction	413,688	72,801	486,489	298,692	61,843	360,535	325,480	65,092	390,572
Marine construction	544	614	1,158	526	565	1,091	522	391	1,113
25. Docks, wharves, piers, breakwaters	66	82	148	57	65	122	56	73	129
26. Retaining walls, embankments, riprapping	26	19	45	23	11	34	20	12	32
27. Canals and waterways	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving	—	296	296	—	274	274	—	280	290
29. Dyke construction	—	—	—	—	—	—	—	—	—
30. Logging booms	6	—	6	—	—	—	—	—	—
31. Other marine construction	446	217	663	446	215	661	446	216	662

TABLE 26. Alberta - Concluded

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction	71,645	29,454	101,099	63,860	20,950	86,810	63,748	21,315	85,061
32. Hard surfaced or paved streets, highways, parking lots, ect. ..	45,097	20,027	65,124	41,652	15,177	56,829	39,806	15,531	55,337
33. Gravel or stone streets, highways, roads, parking lots, ect.	12,200	8,349	20,549	10,814	4,872	15,686	10,263	4,854	15,117
34. Dirt, clay or other streets, roads, parking lots, ect.	6,406	501	6,907	5,598	351	5,949	5,606	351	5,957
35. Grading, scraping, oiling, filling	1,965	40	2,005	2,105	40	2,145	2,824	41	2,865
36. Sidewalks, paths	3,112	447	3,559	3,159	431	3,590	2,992	453	3,445
37. Aerodromes, landing fields, runways, tarmac	2,865	90	2,955	2,532	79	2,611	2,257	83	2,340
Waterworks and sewage systems	13,199	3,404	16,603	14,363	3,438	17,801	13,690	3,683	17,373
38. Tile drains, drainage ditches, storm sewers	333	116	449	38	73	111	29	77	106
39. Water mains, hydrants and services	3,911	1,662	5,573	5,299	1,740	7,039	4,717	1,894	6,611
40. Sewage systems and connections	8,493	1,522	10,015	8,677	1,487	10,164	8,240	1,555	9,795
41. Pumping stations, water	197	88	285	349	131	480	704	138	842
42. Water storage tanks	265	16	281	-	7	7	-	19	19
Dams and irrigation	6,046	1,499	7,545	5,913	1,505	7,418	5,104	1,544	6,648
43. Dams and reservoirs	2,396	460	2,856	2,168	426	2,594	1,466	450	1,916
44. Irrigation and land reclamation projects	3,650	1,039	4,689	3,745	1,079	4,824	3,638	1,094	4,732
Electric power construction	16,896	3,872	20,768	20,126	2,487	22,613	17,487	3,010	20,497
45. Electric power generating plants, including water conveying and controlling structures	3,610	412	4,022	7,315	279	7,594	6,314	342	6,656
46. Electric transformer stations	1,312	266	1,578	1,535	189	1,724	1,170	226	1,396
47. Power transmission and distribution lines, trolley wires	9,251	2,768	12,019	8,703	1,498	10,201	7,682	1,863	9,545
48. Street lighting	2,723	426	3,149	2,573	521	3,094	2,321	579	2,900
Railway, telephone and telegraph	18,190	14,109	32,299	17,844	13,847	31,691	17,957	14,875	32,832
49. Railway tracks and roadbed	10,528	11,276	21,804	12,083	10,280	22,343	12,288	11,108	23,394
50. Signals and interlockers	2,204	652	2,856	770	652	1,422	592	714	1,306
51. Telegraph and telephone lines, underground and marine cables	5,458	2,181	7,639	4,991	2,935	7,926	5,079	3,053	8,132
Gas and oil facilities	271,098	11,681	282,759	158,831	13,441	172,272	191,774	14,362	206,136
52. Gas mains and services	3,320	785	4,105	8,874	907	9,781	5,580	1,008	6,588
53. Pumping stations, oil	724	362	1,086	1,348	460	1,808	490	467	957
54. Pumping stations, gas	1,266	93	1,359	294	37	331	471	104	575
55. Oil storage tanks	3,845	534	4,379	2,434	308	2,742	1,752	376	2,128
56. Gas storage tanks	82	-	82	-	-	-	-	-	-
57. Oil pipe lines	13,878	419	14,297	7,676	461	8,137	4,661	397	5,058
58. Gas pipe lines	59,638	444	60,082	7,914	300	8,214	24,490	293	24,783
59. Oil wells	85,609	3,682	89,291	77,723	4,818	82,541	88,425	4,879	93,304
60. Gas wells	35,884	1,219	37,103	23,546	1,075	24,621	28,765	1,126	29,891
61. Oil refinery - processing units	1,013	2,628	3,641	1,489	2,639	4,126	1,154	2,734	3,888
62. Natural gas cleaning plants	65,839	1,495	67,334	27,533	2,436	29,969	35,986	2,978	38,964
Other engineering construction	16,070	8,188	24,258	13,229	5,610	20,839	13,198	5,714	20,912
63. Bridges, trestles, culverts, overpasses, viaducts	10,926	5,131	16,057	10,510	3,422	13,932	10,744	3,496	14,240
64. Tunnels and subways	267	-	267	37	-	37	20	-	20
65. Incinerators	47	-	47	42	-	42	37	-	37
66. Park systems, landscaping, sodding, etc.	658	467	1,125	594	334	928	549	343	892
67. Swimming pools, tennis courts, outdoor recreation facilities....	194	152	346	171	141	312	153	149	302
68. Mine shafts and other below surface workings	11	3	14	6	-	6	-	-	-
69. Fences, snowsheds, signs, guard rails	2,269	1,005	3,274	2,458	929	3,387	2,368	947	3,315
70. Other engineering construction	1,698	1,430	3,128	1,411	734	2,195	1,327	779	2,106

TABLE 27. British Columbia

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction	595,242	158,382	753,624	609,189	161,475	770,664	734,415	165,138	899,553
Total building construction	295,793	90,847	386,640	319,670	95,588	415,258	329,361	98,320	427,681
Residential	149,300	48,900	198,200	161,800	52,300	214,100	160,300	55,500	215,800
Industrial	29,550	10,707	40,257	32,501	12,425	44,926	40,695	11,458	52,153
2. Factories, plants, workshops, food canneries	21,729	8,816	30,545	26,336	10,412	36,748	37,719	9,210	46,929
3. Mine and mine mill buildings	6,698	277	6,975	4,806	305	5,111	948	302	1,250
4. Railway stations, offices, roadway buildings	836	1,150	1,986	931	1,271	2,202	1,569	1,454	3,023
5. Railway shops, engine houses, water and fuel stations	287	464	751	428	437	865	459	492	951
Commercial	47,003	11,619	58,622	46,521	11,163	57,684	50,300	11,308	61,608
6. Warehouses, storehouses, refrigerated storage, etc.	4,714	1,706	6,420	4,583	1,725	6,308	7,336	1,676	9,012
7. Grain elevators	74	90	164	76	248	324	77	91	168
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	8,196	1,784	9,980	6,013	1,655	7,668	4,345	1,640	5,985
9. Office buildings	11,771	2,287	14,058	13,184	2,230	15,414	14,531	2,504	17,035
10. Stores, retail and wholesale	13,639	2,587	16,226	11,471	2,448	13,919	14,192	2,491	16,683
11. Garages and service stations	3,024	656	3,680	3,675	674	4,349	3,619	712	4,331
12. Theatres, arenas, amusement and recreational buildings	5,501	2,378	7,879	7,420	2,054	9,474	6,051	2,076	8,127
13. Laundries and dry cleaning establishments	84	131	215	99	129	228	149	118	267
Institutional	44,146	12,279	56,425	55,554	12,111	67,665	55,486	12,124	67,610
14. Schools and other educational buildings	24,300	7,131	31,431	35,651	6,897	42,548	35,786	7,372	43,158
15. Churches and other religious buildings	6,270	544	6,814	3,381	186	3,567	4,129	201	4,330
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	11,294	2,176	13,470	12,548	2,555	15,103	12,986	1,835	14,821
17. Other institutional buildings	2,282	2,428	4,710	3,974	2,473	6,447	2,585	2,716	5,301
Other building construction	25,794	7,342	33,136	23,294	7,589	30,883	22,580	7,930	30,510
18. Farm buildings (excluding dwellings)	9,099	2,324	11,423	10,085	2,609	12,694	9,657	2,500	12,157
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	6,061	441	6,502	5,863	281	6,144	6,064	303	6,367
20. Aeroplane hangars	1,827	65	1,892	36	72	108	24	71	95
21. Passenger terminals, bus, boat or air	1,560	30	1,590	1,421	247	1,668	1,583	306	1,889
22. Armouries, barracks, drill halls, etc.	1,620	934	2,554	1,444	887	2,331	1,270	934	2,204
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	2,886	1,326	4,212	1,992	1,314	3,306	1,599	1,448	3,047
24. Other building construction	2,741	2,222	4,963	2,453	2,179	4,632	2,383	2,368	4,751
Total engineering construction	299,449	67,535	366,984	289,519	65,887	355,406	405,054	66,818	471,872
Marine construction	7,687	3,221	10,908	5,357	2,922	8,279	5,685	3,228	8,913
25. Docks, wharves, piers, breakwaters	4,485	1,704	6,189	3,274	1,655	4,929	3,909	1,873	5,782
26. Retaining walls, embankments, ripraping	167	145	312	52	5	57	72	3	75
27. Canals and waterways	582	71	653	170	21	191	109	26	135
28. Dredging and pile driving	1,026	979	2,005	577	1,002	1,579	420	1,086	1,506
29. Dyke construction	13	25	38	13	4	17	66	2	68
30. Logging booms	141	239	380	194	178	372	141	178	319
31. Other marine construction	1,273	58	1,331	1,077	57	1,134	968	60	1,028

TABLE 27. British Columbia — Concluded

Type of structure	1961			1962			1963		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Road, highway and aerodrome construction	96,871	24,688	121,559	102,207	25,203	127,410	95,209	23,838	119,047
32. Hard surfaced or paved streets, highways, parking lots, etc..	31,919	7,131	39,050	31,592	8,973	40,565	29,682	7,747	37,429
33. Gravel or stone streets, highways, roads, parking lots, etc. ..	47,188	13,092	60,280	49,938	12,080	62,018	43,929	11,973	55,902
34. Dirt, clay or other streets, roads, parking lots, etc.	9,628	3,257	12,885	11,168	3,055	14,223	9,976	2,995	12,971
35. Grading, scraping, oiling, filling	313	711	1,024	2,210	655	2,865	4,978	675	5,653
36. Sidewalks, paths	1,559	450	2,009	1,774	391	2,165	1,786	393	2,179
37. Aerodromes, landing fields, runways, tarmac	6,264	47	6,311	5,525	49	5,574	4,858	55	4,913
Waterworks and sewage systems	24,820	4,640	29,460	27,750	4,294	32,044	26,002	4,414	30,416
38. Tile drains, drainage ditches, storm sewers	202	607	809	142	549	691	170	575	745
39. Water mains, hydrants and services	10,608	2,387	12,995	11,317	2,304	13,621	8,454	2,397	10,851
40. Sewage systems and connections	13,250	1,404	14,654	15,240	1,289	16,529	15,556	1,282	16,838
41. Pumping stations, water	399	144	543	901	79	980	1,643	77	1,720
42. Water storage tanks	381	98	459	150	73	223	179	83	262
Dams and irrigation	6,280	399	6,679	5,448	478	5,926	67,153	461	67,614
43. Dams and reservoirs	5,667	245	5,912	4,800	309	5,109	66,302	297	66,599
44. Irrigation and land reclamation projects	613	154	767	648	169	817	851	164	1,015
Electric power construction	21,771	7,178	28,949	42,420	5,182	47,602	95,751	5,476	101,227
45. Electric power generating plants, including water conveying and controlling structures	2,270	2,537	4,807	20,948	1,062	22,010	59,364	1,118	60,482
46. Electric transformer stations	481	423	904	289	224	513	384	193	577
47. Power transmission and distribution lines, trolley wires	16,789	2,799	19,568	18,965	2,588	21,553	33,817	2,853	36,670
48. Street lighting	2,231	1,419	3,650	2,218	1,308	3,526	2,186	1,312	3,498
Railway, telephone and telegraph	21,705	16,490	38,195	21,527	16,421	37,948	32,735	18,058	30,793
49. Railway tracks and roadbed	13,695	13,125	26,820	12,933	12,537	25,470	21,237	13,640	34,877
50. Signals and interlockers	525	612	1,137	536	760	1,296	726	823	1,549
51. Telegraph and telephone lines, underground and marine cables	7,485	2,753	10,238	8,058	3,124	11,182	10,772	3,595	14,367
Gas and oil facilities	84,618	3,645	88,263	47,073	4,055	51,128	44,826	4,079	48,905
52. Gas mains and services	4,930	412	5,342	5,420	360	5,780	7,202	369	7,571
53. Pumping stations, oil	971	76	1,047	269	210	479	—	253	253
54. Pumping stations, gas	2,026	11	2,037	57	7	64	37	6	43
55. Oil storage tanks	1,771	332	2,103	1,234	549	1,783	1,314	392	1,706
56. Gas storage tanks	8	—	8	178	—	178	—	—	—
57. Oil pipe lines	24,205	273	24,478	1,538	515	2,053	1,469	455	1,924
58. Gas pipe lines	27,812	188	28,000	3,081	256	3,337	1,486	423	1,909
59. Oil wells	13,495	302	13,757	19,640	243	19,883	17,697	200	17,897
60. Gas wells	7,910	27	7,937	13,380	68	13,448	13,553	93	13,646
61. Oil refinery — processing units	727	1,867	2,594	2,256	1,847	4,103	1,912	1,888	3,800
62. Natural gas cleaning plants	763	157	920	20	—	20	156	—	156
Other engineering construction	35,697	7,274	42,971	37,737	7,332	45,069	37,693	7,264	44,957
63. Bridges, trestles, culverts, overpasses, viaducts	24,613	3,683	28,296	28,031	3,868	31,899	27,744	3,657	31,401
64. Tunnels and subways	310	—	310	16	—	16	32	—	32
65. Incinerators	50	4	54	12	—	12	11	10	21
66. Park systems, landscaping, sodding etc.	283	293	576	230	405	635	202	422	624
67. Swimming pools, tennis courts, outdoor recreation facilities ..	96	84	180	38	8	46	27	7	34
68. Mine shafts and other below surface workings	2,197	44	2,241	2,155	33	2,188	3,136	25	3,161
69. Fences, snowsheds, signs, guard rails	1,111	1,365	2,476	850	1,319	2,169	801	1,404	2,205
70. Other engineering construction	7,037	1,801	8,838	6,405	1,699	8,104	5,740	1,739	7,479

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 1963".

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 1960 of all the firms in each industry by the corresponding 1960 total for the firms reporting in the 1963 survey. In carrying out this procedure it has been assumed that the proportion of shipments of the reporting establishments in both 1960 and 1963 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 1962 preliminary actual figures and the 1963 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 1962 to 1963 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 1961 and 1962, 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 1963 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 1962.

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 1961 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 1961 to 1963. 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 1962 and 1963 an average annual earnings figure was computed from 1961, projected forward, and divided into the estimated total salaries and wages, including an allowance for working owners and partners, for these years.

STATISTICS CANADA LIBRARY
BIBLIOTHÈQUE STATISTIQUE CANADA



1010767037