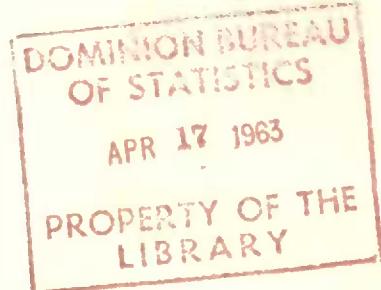


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## CONSTRUCTION IN CANADA

1960-62

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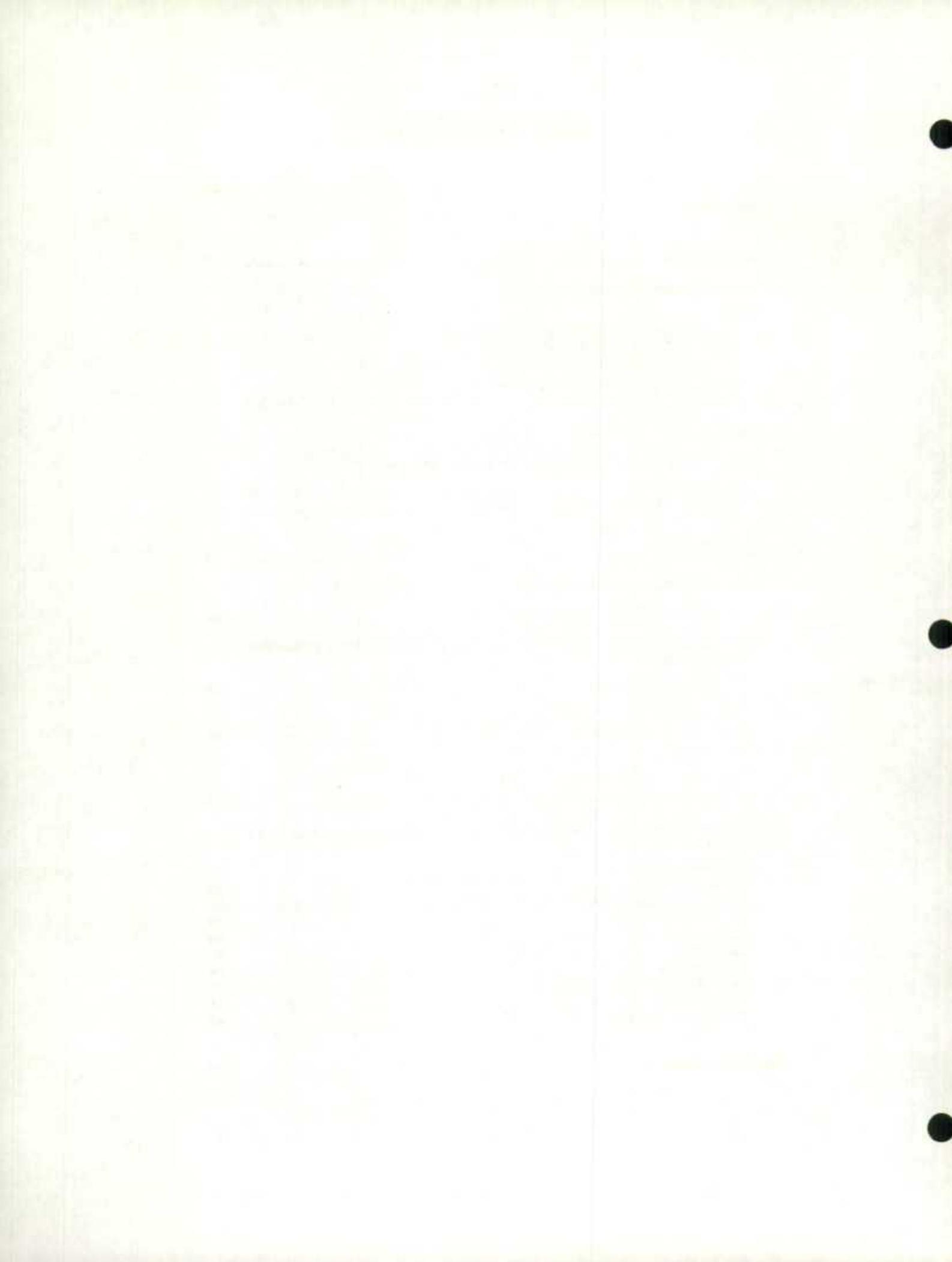
CONSTRUCTION IN CANADA

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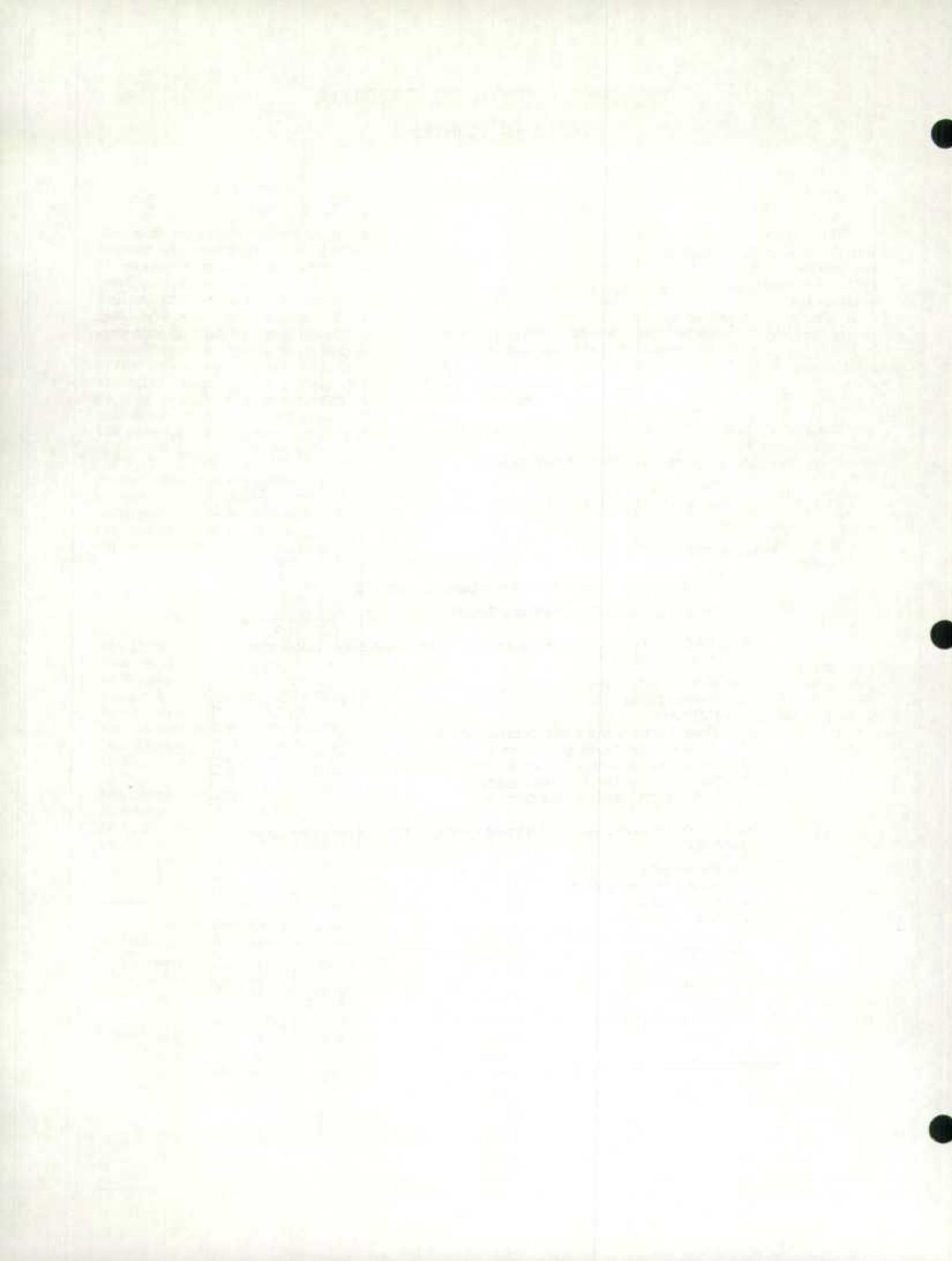
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# CONSTRUCTION IN CANADA

1960-62

## INTRODUCTION

This report contains data on construction activity undertaken in Canada during 1960 and 1961 and provides estimates of the intended program for 1962. The information given for 1961 is preliminary whereas that shown for 1960 and earlier years is final. The probable volume of construction that will be realized in 1962 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 1962", 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 1961 construction program reached \$7.0 billion, a 2.2 per cent increase from the previous year's level of \$6.9 billion. New construction increased 2.2 per cent from \$5,454 million in 1960 to \$5,573 million in 1961, while at the same time repair construction increased from \$1,432 million to \$1,466 million.

Building construction overall was slightly higher in 1961 but there were noticeable declines in factories, warehouses and stores. However, these were offset by increases in residential building, offices, schools and hospitals.

Engineering structures new and repair, at \$2,954 million were somewhat higher than 1960 but still below the level reached in 1957 and 1958. While there were substantially higher outlays for dams and reservoirs, electric power construction and gas and oil facilities, these were offset by declines in railway track and roadbed work and telephone and telegraph lines.

There was a slight rise in repair expenditures between the two years with most of it appearing in residential construction. Practically all types of buildings and structures continued to show repair work at about the same level as other years.

Year	Total new and repair construction	% change over previous year in	
		Value	Volume
1953 .....	4,826	8.6	4.6
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	- 4.4
1961 .....	7,039	2.2	2.7
1962 .....	7,382	4.9	

**VALUE OF CONSTRUCTION WORK PERFORMED**  
**TABLE 1. Current and Constant Dollars, 1953-62<sup>1</sup>**

	New		Repair		Total		Total construction as percentage of Gross National Product	
	Current	Constant	Current	Constant	Current	Constant	Current	Constant
							1957	millions of dollars
1953 .....	3,756	4,174	1,070	1,223	4,826	5,397	19.3	19.6
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	7,096	21.6	22.0
1959 .....	5,710	5,558	1,367	1,290	7,077	6,848	20.3	20.2
1960 .....	5,454	5,249	1,432	1,301	6,886	6,550	21.4	19.3
1961 .....	5,573	5,407	1,466	1,323	7,039	6,730	19.1	19.5
1962 .....	5,862	-	1,521	-	7,382	-	-	-

<sup>1</sup> Actual 1953-60, preliminary 1961, intentions 1962.

**TABLE 2. By Contractors and Others, 1958-62**

	Contract construction			Other construction <sup>2</sup>			Total construction		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
1958 .....	4,844	597	5,441	987	664	1,651	5,831	1,261	7,092
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 .....	4,571	715	5,286	1,002	751	1,753	5,573	1,466	7,039
1962 .....	4,832	742	5,574	1,030	779	1,809	5,862	1,521	7,383

<sup>1</sup> Actual 1958-60, preliminary 1961, intentions 1962.

<sup>2</sup> 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, 1958-62**

	1958		1959		1960		1961		1962	
	Value	Percent of total								
<b>Total construction .....</b>	<b>7,092</b>	<b>100.0</b>	<b>7,077</b>	<b>100.0</b>	<b>8,886</b>	<b>100.0</b>	<b>7,039</b>	<b>100.0</b>	<b>7,383</b>	<b>100.0</b>
<b>Total building construction .....</b>	<b>4,102</b>	<b>57.8</b>	<b>4,240</b>	<b>59.9</b>	<b>4,031</b>	<b>58.8</b>	<b>4,085</b>	<b>58.0</b>	<b>4,412</b>	<b>59.8</b>
Residential .....	2,189	30.9	2,183	30.9	1,913	27.8	1,951	27.7	2,046	27.7
Industrial .....	396	5.5	416	5.9	452	6.6	402	5.7	462	6.3
Commercial .....	689	9.7	759	10.7	738	10.7	757	10.8	759	10.3
Institutional .....	550	7.8	569	8.0	615	8.9	655	9.3	809	11.0
Other building .....	278	3.9	313	4.4	333	4.8	320	4.5	336	4.5
<b>Total engineering .....</b>	<b>2,990</b>	<b>42.2</b>	<b>2,837</b>	<b>40.1</b>	<b>2,835</b>	<b>41.2</b>	<b>2,954</b>	<b>42.0</b>	<b>2,971</b>	<b>40.2</b>
Marine construction .....	155	2.2	134	1.9	119	1.7	117	1.7	105	1.4
Road highway and aerodrome construction .....	712	10.0	791	11.1	830	12.1	830	11.8	868	11.8
Waterworks and sewage systems .....	198	2.8	226	3.2	233	3.4	228	3.2	281	3.8
Dams and irrigation .....	50	0.7	60	0.8	92	1.3	107	1.5	137	1.8
Electric Power construction .....	501	7.1	395	5.6	349	5.1	408	5.8	422	5.7
Railway, telephone and telegraph construction .....	401	5.7	458	6.5	452	6.6	381	5.4	400	5.4
Gas and oil facilities .....	650	9.2	464	6.6	454	6.6	566	8.1	428	5.8
Other engineering construction .....	323	4.5	309	4.4	306	4.4	317	4.5	330	4.5

<sup>1</sup> Actual 1958-60, preliminary 1961, intentions 1962.

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

	1960			1961			1962		
	Building	Engineering	Total	Building	Engineering	Total	Building	Engineering	Total
thousands of dollars									
Totals .....	4,051,104	2,835,151	6,886,255	4,085,271	2,954,023	7,039,294	4,411,534	2,971,079	7,382,613
Agriculture and fishing .....	164,249	19,118	183,367	166,645	19,125	185,770	168,752	19,375	188,127
Forestry .....	9,603	36,115	45,718	6,223	36,895	43,118	7,462	38,468	45,930
Mining, quarrying and oil wells .....	63,251	266,753	330,004	74,496	324,459	398,955	88,407	272,219	360,626
Construction .....	16,097	1,934	18,031	16,389	1,962	18,351	16,683	1,994	18,677
Manufacturing .....	354,825	106,323	461,148	294,322	93,890	388,212	337,089	105,020	442,109
Utilities .....	150,133	1,192,836	1,342,969	133,458	1,245,329	1,378,787	132,565	1,247,309	1,379,874
Trade-Wholesale and retail .....	186,508	18,358	204,866	171,786	11,927	183,713	180,449	11,170	191,619
Finance, insurance and real estate .....	253,330	5,608	258,938	276,122	6,440	262,562	245,098	6,491	251,589
Commercial services .....	69,313	1,784	71,097	64,464	2,127	66,591	66,279	659	66,938
Housing .....	1,913,100	—	1,913,100	1,951,000	—	1,951,000	2,046,000	—	2,046,000
Institutional services .....	556,909	2,639	559,548	596,542	3,048	599,590	760,119	4,202	764,321
Government departments .....	313,786	1,183,683	1,497,469	333,824	1,208,821	1,542,645	362,631	1,264,172	1,626,803

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

	Change 1960 to 1961						Change 1961 to 1962					
	Building		Engineering		Total		Building		Engineering		Total	
	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%	\$ Mill	%
Totals .....	34	0.8	119	4.2	153	2.2	326	8.0	17	0.6	343	4.9
Agriculture and fishing .....	2	1.5	—	—	2	1.3	2	1.3	—	1.3	2	1.3
Forestry .....	— 3	— 35.2	1	2.2	— 3	— 5.7	1	19.9	2	4.3	3	6.5
Mining, quarrying and oil wells .....	11	17.8	58	21.6	69	20.9	14	18.7	— 52	— 16.1	— 38	— 9.6
Construction .....	—	1.8	—	1.4	—	1.8	—	1.8	—	1.6	—	1.8
Manufacturing .....	— 61	— 17.1	— 12	— 11.7	— 73	— 15.8	43	14.5	11	11.9	54	13.9
Utilities .....	— 17	— 11.1	52	4.4	36	2.7	— 1	— 0.7	2	0.2	1	0.1
Trade-Wholesale and retail .....	— 15	— 7.9	— 6	— 35.0	— 21	— 10.3	9	5.0	— 1	— 6.3	6	4.3
Finance, insurance and real estate .....	23	9.0	1	14.8	24	9.1	— 31	— 11.2	—	0.8	— 31	— 11.0
Commercial services .....	— 5	— 7.0	—	19.2	— 5	— 6.3	2	2.8	— 1	— 69.0	—	0.5
Housing .....	38	2.0	—	—	38	2.0	95	4.9	—	—	95	4.9
Institutional services .....	40	7.1	—	15.5	40	7.2	164	27.4	1	37.9	165	27.5
Government departments .....	20	6.4	25	2.1	45	3.0	29	8.6	55	4.6	84	5.5

TABLE 6. By Type of Structure, Total, 1958-62<sup>1</sup>

Type of structure	1958	1959	1960	1961	1962
thousands of dollars					
Total value of construction .....	7,092,481	7,077,383	6,386,235	7,039,294	7,382,613
Total building construction .....	4,101,751	4,240,059	4,051,104	4,085,271	4,411,534
Residential .....	2,189,000	2,183,006	1,913,100	1,951,000	2,046,000
Industrial .....	395,503	415,814	451,568	402,503	461,352
2. Factories, plants, workshops, food canneries .....	317,550	344,692	365,607	310,094	358,821
3. Mine and mine mill buildings .....	35,746	30,071	45,891	56,900	67,037
4. Railway stations, offices, roadway buildings .....	24,599	25,650	23,114	21,973	22,220
5. Railway shops, engine houses, water and fuel stations .....	17,608	15,401	16,956	13,538	13,274
Commercial .....	688,763	759,065	738,127	756,896	758,582
6. Warehouses, storehouses, refrigerated storage, etc. ....	73,920	80,951	82,131	70,827	63,244
7. Grain elevators .....	25,915	27,329	20,901	25,167	25,774
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	50,413	61,122	48,449	43,976	48,882
9. Office buildings .....	263,742	287,136	309,942	356,220	347,124
10. Stores, retail and wholesale .....	197,395	195,063	187,987	160,165	183,079
11. Garages and service stations .....	47,908	53,466	55,223	58,491	46,977
12. Theatres, arenas, amusement and recreational buildings .....	24,091	52,076	31,868	39,448	41,946
13. Laundries and dry cleaning establishments .....	5,379	1,922	1,626	2,602	1,556
Institutional .....	550,034	569,109	615,188	654,847	809,256
14. Schools and other educational buildings .....	306,130	307,661	346,599	359,406	480,520
15. Churches and other religious buildings .....	53,076	64,421	70,037	65,694	70,385
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	156,891	153,057	153,707	182,240	211,246
17. Other institutional buildings .....	33,937	43,970	44,845	47,507	47,105
Other building construction .....	278,451	313,071	333,121	320,023	336,344
18. Farm buildings (excluding dwellings) .....	161,706	172,359	168,215	169,164	170,901
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	41,018	41,973	60,749	48,599	47,224
20. Aeroplane hangars .....	6,012	26,352	17,436	13,676	13,346
21. Passenger terminals, bus, boat or air .....	12,220	11,476	26,181	29,921	32,416
22. Armouries, barracks, drill halls, etc. ....	24,113	22,176	20,846	22,984	26,086
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	16,700	21,454	21,280	14,608	26,380
24. Other building construction .....	16,682	17,281	18,414	21,071	19,991
Total engineering construction .....	2,990,730	2,837,324	2,835,151	2,954,023	2,971,079
Marine construction .....	155,032	134,460	119,032	117,241	105,344
25. Docks, wharves, piers, breakwaters .....	60,818	61,675	71,540	80,924	76,211
26. Retaining walls, embankments, ripraping .....	2,419	2,980	4,263	3,572	4,384
27. Canals and waterways .....	36,357	4,384	6,711	4,518	3,884
28. Dredging and pile driving .....	49,068	51,390	31,590	23,199	17,975
29. Dyke construction .....	1,496	3,224	294	289	86
30. Logging booms .....	1,101	1,452	1,246	1,088	1,006
31. Other marine construction .....	3,773	9,355	3,388	3,651	1,798

<sup>1</sup> Actual 1958-60, preliminary 1961, intentions 1962.

TABLE 6. By Type of Structure, Total, 1958-62<sup>1</sup> — Concluded

Type of structure	1958	1959	1960	1961	1962
thousands of dollars					
Road, highway and aerodrome construction .....	711,854	791,059	830,359	829,997	867,875
32. Hard surfaced or paved streets, highways, parking lots, etc. ....	424,700	398,241	457,143	469,792	498,820
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	169,653	253,712	241,832	243,132	237,869
34. Dirt, clay or other streets, roads, parking lots, etc. ....	47,925	48,958	50,608	41,215	43,523
35. Grading, scraping, oiling, filling .....	19,924	30,001	26,345	22,403	31,986
36. Sidewalks, paths .....	19,563	18,502	24,075	20,963	20,585
37. Aerodromes, landing fields, runways, tarmac .....	30,089	41,645	30,356	32,492	35,092
Waterworks and sewage systems .....	197,546	225,707	232,783	227,711	280,647
38. Tile drains, drainage ditches, storm sewers .....	21,401	13,929	21,122	21,319	22,173
39. Water mains, hydrants and services .....	72,320	83,136	78,277	73,497	86,573
40. Sewage systems and connections .....	91,239	112,674	113,367	114,812	147,137
41. Pumping stations, water .....	6,976	13,883	17,254	15,273	15,066
42. Water storage tanks .....	5,610	2,085	2,763	2,810	9,698
Dams and irrigation .....	50,168	60,011	91,743	106,787	136,713
43. Dams and reservoirs .....	35,693	45,693	76,295	90,048	118,599
44. Irrigation and land reclamation projects .....	14,476	14,318	15,448	16,739	18,114
Electric power construction .....	501,216	394,829	348,877	408,122	422,342
45. Electric power generating plants, including water conveying and controlling structures .....	229,925	161,752	128,977	166,744	156,212
46. Electric transformer stations .....	53,462	45,848	43,556	49,147	58,194
47. Power transmission and distribution lines, trolley wires .....	204,345	171,652	159,678	173,300	190,044
48. Street lighting .....	13,484	15,577	16,666	18,931	17,882
Railway, telephone and telegraph .....	401,400	457,825	451,561	380,965	400,032
49. Railway tracks and roadbed .....	259,858	282,338	269,070	221,756	223,057
50. Signals and interlockers .....	6,602	12,839	13,696	12,281	13,353
51. Telegraph and telephone lines, underground and marine cables .....	134,940	162,648	168,795	146,928	163,622
Gas and oil facilities .....	650,524	464,134	454,372	565,893	428,413
52. Gas mains and services .....	62,947	78,710	60,764	54,780	56,430
53. Pumping stations, oil .....	5,103	3,268	3,992	4,368	4,257
54. Pumping stations, gas .....	24,941	15,869	27,370	15,833	25,421
55. Oil storage tanks .....	21,959	23,618	22,686	13,349	12,915
56. Gas storage tanks .....	3,465	1,867	8,869	11,245	10,514
57. Oil pipe lines .....	19,332	18,650	16,517	43,673	10,978
58. Gas pipe lines .....	209,115	38,148	52,807	107,717	29,225
59. Oil wells .....	128,033	134,963	141,163	128,438	130,418
60. Gas wells .....	29,043	31,805	34,687	48,626	46,294
61. Oil refinery — processing units .....	111,269	92,865	64,383	59,953	79,830
62. Natural gas cleaning plants .....	35,317	24,771	21,134	77,891	22,311
Other engineering construction .....	322,969	309,299	306,424	317,307	329,713
63. Bridges, trestles, culverts, overpasses, viaducts .....	187,640	183,110	196,396	200,853	193,829
64. Tunnels and subways .....	37,110	26,829	21,740	23,167	35,100
65. Incinerators .....	1,870	2,949	3,491	1,998	1,515
66. Park systems, landscaping, sodding, etc. ....	9,054	9,100	8,786	9,317	9,908
67. Swimming pools, tennis courts, outdoor recreation facilities .....	3,338	5,139	3,632	7,012	8,925
68. Mine shafts and other below surface workings .....	35,858	33,437	29,397	29,140	33,077
69. Fences, snowsheds, signs, guard rails .....	16,885	20,058	19,172	17,165	17,646
70. Other engineering construction .....	31,234	28,677	23,810	28,655	29,713

<sup>1</sup> Actual 1958-60, preliminary 1961, intentions 1962.

**LABOUR CONTENT AND COST OF MATERIALS USED, 1958-62<sup>1</sup>**  
**TABLE 7. BY PROVINCES**

Province	Labour content		Cost of materials used	Value of work performed		
	Number	Value				
thousands of dollars						
<b>Canada:</b>						
1958 .....	581,992	2,315,435	3,372,827	7,092,481		
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 .....	542,725	2,387,533	3,315,850	7,039,294		
1962 .....	570,342	2,509,903	3,498,944	7,382,613		
<b>Newfoundland:</b>						
1958 .....	9,226	30,999	41,504	95,682		
1959 .....	11,382	38,881	43,363	105,065		
1960 .....	11,817	47,882	64,053	138,508		
1961 .....	13,845	56,234	75,685	163,179		
1962 .....	15,411	62,988	84,909	181,938		
<b>Prince Edward Island:</b>						
1958 .....	2,070	5,842	9,664	20,498		
1959 .....	2,845	7,715	15,647	29,355		
1960 .....	2,734	7,930	15,459	30,223		
1961 .....	2,796	8,268	16,163	30,583		
1962 .....	2,813	8,317	16,260	30,586		
<b>Nova Scotia:</b>						
1958 .....	19,446	57,766	72,854	159,690		
1959 .....	22,994	73,232	96,223	209,163		
1960 .....	22,937	75,163	102,521	220,062		
1961 .....	22,157	73,566	100,502	215,519		
1962 .....	23,807	79,306	109,209	234,045		
<b>New Brunswick:</b>						
1958 .....	16,644	53,135	87,468	165,880		
1959 .....	16,421	57,030	86,020	175,003		
1960 .....	16,660	54,925	72,880	156,308		
1961 .....	15,834	52,636	70,767	150,280		
1962 .....	16,259	54,135	72,402	152,796		
<b>Quebec:</b>						
1958 .....	144,405	537,707	890,149	1,732,647		
1959 .....	142,154	567,179	894,940	1,772,322		
1960 .....	129,350	543,343	804,971	1,654,161		
1961 .....	131,381	557,136	830,917	1,690,904		
1962 .....	140,871	598,747	893,632	1,821,187		
<b>Ontario:</b>						
1958 .....	214,006	896,629	1,203,999	2,598,625		
1959 .....	195,433	844,800	1,130,533	2,392,095		
1960 .....	185,694	840,649	1,103,616	2,332,900		
1961 .....	183,255	846,519	1,104,888	2,339,923		
1962 .....	199,245	923,261	1,215,141	2,565,358		
<b>Manitoba:</b>						
1958 .....	29,495	112,424	163,746	345,293		
1959 .....	32,211	127,322	201,946	397,769		
1960 .....	31,101	131,066	196,577	396,598		
1961 .....	29,795	128,467	188,399	382,282		
1962 .....	31,703	136,053	197,270	405,974		

<sup>1</sup> Actual 1958-60, preliminary 1961, intentions 1962.

TABLE 7. By Provinces — Concluded

Province	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
<b>Saskatchewan:</b>				
1958	28,959	114,656	192,193	383,344
1959	29,186	116,681	171,020	357,717
1960	29,235	116,442	187,463	378,935
1961	29,783	121,950	196,831	398,464
1962	30,582	125,112	198,751	402,233
<b>Alberta:</b>				
1958	57,141	229,400	355,157	787,336
1959	58,931	248,251	367,511	818,597
1960	57,070	244,218	370,242	815,793
1961	59,086	259,242	391,956	886,693
1962	54,637	237,196	366,982	802,148
<b>British Columbia:</b>				
1958	60,800	276,877	356,093	803,486
1959	60,355	297,123	360,051	820,297
1960	54,593	275,273	333,840	762,767
1961	54,793	283,515	339,942	781,467
1962	55,014	284,788	344,388	786,348

TABLE 8. By Contractors and Others

Type	Labour content		Cost of materials used	Value of work performed
	Number	Value		
thousands of dollars				
<b>Total:</b>				
1958	581,992	2,315,435	3,372,827	7,092,481
1959	571,912	2,378,214	3,367,284	7,077,383
1960	541,191	2,336,891	3,251,632	6,886,255
1961	542,725	2,387,533	3,315,850	7,039,294
1962	570,342	2,509,903	3,498,944	7,382,613
<b>Contractors:</b>				
1958	393,854	1,655,812	2,806,012	5,441,352
1959	383,825	1,650,000	2,531,105	5,269,521
1960	359,711	1,611,273	2,503,378	5,182,772
1961	360,904	1,642,104	2,544,100	5,285,684
1962	382,898	1,741,123	2,702,768	5,574,418
<b>Utilities:</b>				
1958	72,694	284,921	411,438	774,336
1959	66,564	303,082	395,103	779,355
1960	66,235	311,988	379,532	749,932
1961	67,954	328,684	397,434	786,993
1962	70,511	340,190	412,226	815,872
<b>Governments:</b>				
1958	65,806	200,102	113,079	398,070
1959	63,339	203,585	140,417	432,582
1960	74,509	244,938	171,041	528,031
1961	73,655	246,276	170,968	529,399
1962	74,989	250,731	173,415	538,689
<b>Others:</b>				
1958	49,638	174,600	242,298	478,723
1959	58,184	221,547	300,629	595,925
1960	40,736	168,692	197,673	425,520
1961	40,212	170,489	203,348	437,218
1962	41,944	177,859	210,535	453,434

VALUE OF CONSTRUCTION WORK PERFORMED - CANADA, 1960-62<sup>1</sup>

TABLE 9. By Type of Structure, New and Repair

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	5,453,732	1,432,523	6,886,255	5,572,891	1,466,303	7,039,284	5,861,990	1,520,623	7,382,613
Total building construction .....	3,185,494	865,610	4,051,104	3,207,367	877,904	4,085,271	3,503,624	907,910	4,411,534
Residential .....	1,456,100	457,000	1,913,100	1,467,000	484,000	1,951,000	1,533,000	513,000	2,046,000
Industrial .....	331,319	120,249	451,568	290,041	112,464	402,505	345,384	115,958	461,352
2. Factories, plants, workshops, food canneries .....	271,727	93,880	365,607	224,843	85,451	310,094	271,115	87,706	358,821
3. Mine and mine mill buildings .....	37,925	7,966	45,891	48,573	8,327	56,900	59,210	7,827	67,037
4. Railway stations, offices, roadway buildings .....	12,112	11,002	23,114	10,488	11,485	21,973	9,408	12,812	22,220
5. Railway shops, engine houses, water and fuel stations .....	9,555	7,401	16,956	6,337	7,201	13,538	5,661	7,613	13,274
Commercial .....	620,577	117,350	738,127	645,354	111,542	756,896	652,476	106,106	758,582
6. Warehouses, storehouses, refrigerated storage, etc. ....	68,472	13,659	82,131	57,964	12,863	70,827	50,493	12,751	63,244
7. Grain elevators .....	13,339	7,562	20,901	18,469	6,698	25,167	20,243	5,531	25,774
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	37,735	10,714	48,449	31,650	12,326	43,976	39,024	9,858	48,882
9. Office buildings .....	266,793	43,149	309,942	318,897	37,323	356,220	309,104	38,020	347,124
10. Stores, retail and wholesale .....	160,848	27,139	187,987	137,847	22,318	160,165	159,844	23,235	183,079
11. Garages and service stations .....	45,039	10,184	55,223	44,565	13,826	58,491	36,176	10,801	46,977
12. Theatres, arenas, amusement and recreational buildings .....	27,562	4,306	31,868	34,221	5,227	38,448	36,892	5,054	41,946
13. Laundries and dry cleaning establishments .....	789	837	1,626	1,741	861	2,802	700	856	1,556
Institutional .....	543,146	72,042	615,188	583,688	71,159	654,847	737,100	72,156	809,256
14. Schools and other educational buildings .....	310,831	35,768	346,599	321,345	38,061	359,406	440,702	39,818	480,520
15. Churches and other religious buildings .....	60,858	9,179	70,037	56,649	9,045	65,694	63,219	7,166	70,385
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	137,199	16,508	153,707	163,167	19,073	182,240	190,615	20,631	211,246
17. Other institutional buildings .....	34,258	10,587	44,845	42,527	4,980	47,507	42,564	4,541	47,105
Other building construction .....	234,352	98,769	333,121	221,264	98,739	320,023	235,654	100,690	336,344
18. Farm buildings (excluding dwellings) .....	98,858	69,359	168,215	98,755	70,409	169,164	99,645	71,256	170,901
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	58,376	2,373	60,749	46,144	2,455	48,598	44,555	2,669	47,224
20. Aeroplane hangars .....	14,710	2,726	17,436	10,800	2,876	13,676	10,348	2,998	13,346
21. Passenger terminals, bus, boat or air .....	25,146	1,035	26,181	29,596	325	29,921	32,066	350	32,416
22. Armouries, barracks, drill halls, etc. ....	5,988	14,860	20,846	7,894	15,090	22,984	9,858	16,228	26,086
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	17,005	4,275	21,280	11,179	3,429	14,608	23,185	3,195	26,380
24. Other building construction .....	14,273	4,141	18,414	16,918	4,155	21,071	15,997	3,994	19,991
Total engineering construction .....	2,268,238	566,913	2,835,151	2,365,624	588,399	2,954,023	2,358,366	612,713	2,971,078
Marine construction .....	100,503	18,529	119,032	101,058	16,183	117,241	88,385	16,949	105,344
25. Docks, wharves, piers, breakwaters .....	62,713	8,827	71,540	72,693	8,231	80,924	67,553	8,658	76,211
26. Retaining walls, embankments, ripraping .....	3,957	306	4,263	3,203	369	3,572	4,014	370	4,384
27. Canals and waterways .....	5,182	1,529	6,711	3,052	1,466	4,518	2,131	1,753	3,884
28. Dredging and pile driving .....	26,143	5,447	31,590	18,297	4,902	23,199	12,988	4,987	17,975
29. Dyke construction .....	249	45	294	261	28	289	66	20	86
30. Logging booms .....	388	858	1,246	375	713	1,088	171	835	1,006
31. Other marine construction .....	1,871	1,517	3,388	3,177	474	3,651	1,472	326	1,798

<sup>1</sup> Actual 1960, preliminary 1961, intentions 1962.

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

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	630,920	199,439	830,359	619,488	210,509	829,997	655,642	212,233	867,875
32. Hard surfaced or paved streets, highways, parking lots, etc. ....	370,321	86,822	457,143	376,215	93,577	469,792	403,022	95,798	498,820
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	159,390	82,442	241,832	150,981	92,151	243,132	146,663	91,206	237,889
34. Dirt, clay or other streets, roads, parking lots, etc. ....	30,865	19,743	50,608	26,773	14,442	41,215	28,900	14,623	43,523
35. Grading, scraping, oiling, filling.....	23,671	2,674	26,345	18,984	3,419	22,403	28,594	3,392	31,986
36. Sidewalks, paths .....	18,575	5,500	24,075	16,365	4,598	20,963	15,864	4,721	20,585
37. Aerodromes, landing fields, runways, tarmac .....	28,098	2,258	30,356	30,170	2,322	32,492	32,599	2,493	35,092
Waterworks and sewage systems .....	192,899	39,884	232,783	189,196	38,515	227,711	236,946	43,701	280,647
38. Tile drains, drainage ditches, storm sewers .....	12,132	8,990	21,122	12,054	9,265	21,319	12,891	9,282	22,173
39. Water mains, hydrants and services .....	61,202	17,075	78,277	57,036	16,461	73,497	67,486	19,087	86,573
40. Sewage systems and connections .....	103,454	9,913	113,367	105,903	8,909	114,812	138,626	8,511	147,137
41. Pumping stations, water .....	13,595	3,659	17,254	11,900	3,373	15,273	11,800	3,266	15,066
42. Water storage tanks .....	2,516	247	2,763	2,303	507	2,810	6,143	3,555	9,698
Dams and irrigation .....	82,434	9,309	91,743	97,563	9,224	106,787	127,347	9,366	136,713
43. Dams and reservoirs .....	72,729	3,566	76,295	86,465	3,583	90,048	114,967	3,632	118,599
44. Irrigation and land reclamation projects.....	9,705	5,743	15,448	11,098	5,641	16,739	12,380	5,734	18,114
Electric power construction .....	298,818	50,259	348,877	349,117	59,005	408,122	364,317	58,025	422,342
45. Electric power generating plants, including, water conveying and controlling structures.....	116,971	12,006	128,977	153,733	13,011	166,744	144,898	11,314	156,212
46. Electric transformer stations .....	36,109	7,447	43,556	40,783	8,364	49,147	50,072	8,122	58,194
47. Power transmission and distribution lines, trolley wires .....	133,415	26,263	159,678	141,669	31,631	173,300	157,553	32,491	190,044
48. Street lighting .....	12,123	4,543	16,666	12,932	5,999	18,931	11,794	6,098	17,892
Railway, telephone and telegraph .....	299,146	152,415	451,561	224,930	156,035	380,965	229,298	170,736	400,032
49. Railway tracks and roadbed .....	163,198	105,872	269,070	110,137	111,619	221,756	99,151	123,906	223,057
50. Signals and interlockers .....	7,080	6,616	13,696	4,855	7,426	12,281	5,147	8,206	13,353
51. Telegraph and telephone lines, underground and marine cables .....	128,868	39,927	168,795	109,938	36,990	146,928	124,998	38,624	163,622
Gas and oil facilities .....	409,302	45,070	454,372	518,821	47,072	565,893	379,085	49,328	428,413
52. Gas mains and services .....	54,794	5,970	60,764	49,317	5,463	54,780	50,651	5,779	56,430
53. Pumping stations, oil .....	3,075	917	3,992	3,390	998	4,388	3,220	1,037	4,257
54. Pumping stations, gas .....	27,316	54	27,370	15,742	91	15,833	25,267	154	25,421
55. Oil storage tanks .....	20,045	2,641	22,686	11,440	1,909	13,349	11,089	1,826	12,915
56. Gas storage tanks .....	8,752	117	8,869	11,092	153	11,245	10,412	102	10,514
57. Oil pipe lines .....	15,010	1,507	16,517	41,982	1,691	43,673	8,748	2,050	10,796
58. Gas pipe lines .....	51,728	1,079	52,807	106,903	614	107,717	28,237	988	29,225
59. Oil wells .....	135,426	5,737	141,163	122,788	5,640	128,438	124,777	5,641	130,418
60. Gas wells .....	33,919	768	34,687	47,095	1,531	48,626	44,651	1,643	46,294
61. Oil refinery — processing units .....	39,416	24,967	64,383	33,418	26,535	59,953	52,230	27,600	79,630
62. Natural gas cleaning plants .....	19,821	1,313	21,134	75,644	2,247	77,891	19,803	2,508	22,311
Other engineering construction .....	254,416	52,008	308,424	265,451	51,856	317,307	277,338	52,375	329,713
63. Bridges, trestles, culverts, overpasses, viaducts .....	170,738	25,658	196,396	175,237	25,616	200,853	167,826	26,003	193,829
64. Tunnels and subways .....	21,591	149	21,740	22,608	559	23,167	34,412	688	35,100
65. Incinerators .....	1,981	1,510	3,491	1,552	446	1,998	1,078	437	1,515
66. Park systems, landscaping, sodding, etc. ....	5,068	3,718	8,786	5,912	3,405	9,317	6,352	3,556	9,908
67. Swimming pools, tennis courts, outdoor recreation facilities .....	2,587	1,045	3,632	5,352	1,660	7,012	7,050	1,875	8,925
68. Mine shafts and other below surface working .....	26,242	3,155	29,397	24,916	4,224	29,140	29,046	4,031	33,077
69. Fences, snowsheds, signs, guard rails .....	10,743	8,429	19,172	9,494	7,671	17,165	9,609	8,037	17,646
70. Other engineering construction .....	15,466	8,344	23,810	20,380	8,275	28,655	21,965	7,748	29,713

VALUE OF CONSTRUCTION WORK PERFORMED, BY TYPE OF STRUCTURE - INDUSTRY OR SECTOR, 1960-62<sup>1</sup>

TABLE 10. Primary Industries<sup>2</sup>

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	450,831	126,289	577,120	519,166	127,028	646,194	486,302	127,058	613,360
Total building construction .....	167,739	85,461	253,200	177,534	86,219	263,753	194,497	86,807	281,304
Residential .....	-	-	-	-	-	-	-	-	-
Industrial .....	46,391	10,075	56,466	55,557	10,641	66,198	67,388	9,672	77,060
2. Factories, plants, workshops, food canneries .....	8,740	2,133	10,873	6,974	2,332	9,306	8,011	2,001	10,012
3. Mine and mine mill buildings .....	37,450	7,933	45,383	47,983	8,302	56,285	58,580	7,665	66,245
4. Railway stations, offices, roadway buildings .....	201	9	210	136	7	143	4	6	10
5. Railway shops, engine houses, water and fuel stations .....	-	-	-	464	-	464	793	-	793
Commercial .....	16,475	2,581	19,056	14,430	2,455	16,885	16,463	3,412	19,875
6. Warehouses, storehouses, refrigerated storage, etc. ....	5,536	1,079	6,615	3,603	1,046	4,649	3,054	1,069	4,123
7. Grain elevators .....	-	-	-	-	-	-	-	-	-
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	1,480	43	1,523	1,759	49	1,808	2,428	215	2,643
9. Office buildings .....	7,370	1,095	8,465	8,010	1,101	9,111	9,099	1,867	10,966
10. Stores, retail and wholesale .....	60	6	66	24	6	30	443	6	449
11. Garages and service stations .....	914	257	1,171	623	223	846	582	220	802
12. Theatres, arenas, amusement and recreational buildings .....	1,105	99	1,204	405	28	433	857	20	877
13. Laundries and dry cleaning establishments .....	10	2	12	6	2	8	-	15	15
Institutional .....	1,585	202	1,787	1,941	35	1,976	1,886	37	1,923
14. Schools and other educational buildings .....	856	21	877	1,423	6	1,429	1,340	5	1,345
15. Churches and other religious buildings .....	-	-	-	-	1	1	-	-	-
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	729	181	910	518	28	546	546	32	578
17. Other institutional buildings .....	-	-	-	-	-	-	-	-	-
Other building construction .....	103,288	72,603	175,891	105,606	73,088	178,694	108,760	73,686	182,446
18. Farm buildings (excluding dwellings) .....	94,739	68,886	163,625	96,236	69,976	166,212	97,452	70,856	168,308
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	50	68	118	31	41	72	45	42	87
20. Aeroplane hangars .....	1	4	5	-	1	1	493	1	494
21. Passenger terminals, bus, boat or air .....	-	-	-	-	-	-	4	20	24
22. Armouries, barracks, drill halls, etc. ....	-	-	-	1,659	-	1,859	3,421	-	3,421
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	7,976	3,613	11,589	6,961	3,016	9,977	6,872	2,729	9,601
24. Other building construction .....	522	32	554	519	54	573	473	38	511
Total engineering construction .....	283,092	40,828	323,920	341,632	40,809	382,441	291,805	40,251	332,056
Marine construction .....	4,201	3,987	8,188	13,405	3,406	16,811	21,092	3,140	24,232
25. Docks, wharves, piers, breakwaters .....	1,345	1,643	2,988	10,936	1,965	12,901	18,246	2,015	20,261
26. Retaining walls, embankments, ripraping .....	9	31	40	221	28	249	155	30	185
27. Canals and waterways .....	31	131	162	234	21	255	53	22	75
28. Dredging and pile driving .....	2,177	1,084	3,261	1,265	609	1,874	2,294	301	2,595
29. Dyke construction .....	10	8	18	238	-	238	45	-	45
30. Logging booms .....	330	708	1,038	272	527	799	137	641	778
31. Other marine-construction .....	299	382	681	239	256	495	162	131	293

See footnotes at end of table.

TABLE 10. Primary Industries<sup>1</sup> — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	23,849	11,872	35,721	24,002	11,303	35,305	23,656	11,635	35,291
32. Hard surfaced or paved streets, highways, parking lots, etc. ....	698	175	873	2,252	328	2,580	1,732	517	2,249
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	6,739	4,129	10,868	7,848	5,256	12,904	6,504	5,181	11,685
34. Dirt, clay or other streets, roads, parking lots, etc. ....	15,917	7,374	23,291	12,258	5,355	17,613	13,694	5,627	19,321
35. Grading, scraping, oiling, filling .....	254	163	417	1,728	331	2,059	1,503	291	1,794
36. Sidewalks, paths .....	9	4	13	47	—	47	65	—	65
37. Aerodromes, landing fields, runways, tarmac .....	232	27	259	69	33	102	158	19	177
Waterworks and sewage systems .....	8,629	525	9,154	4,337	508	4,845	3,252	445	3,897
38. Tile drains, drainage ditches, storm sewers .....	300	28	328	78	6	84	136	6	142
39. Water mains, hydrants and services .....	3,692	259	3,951	2,381	297	2,678	1,308	276	1,584
40. Sewage systems and connections .....	1,821	118	1,939	1,395	123	1,518	1,378	92	1,470
41. Pumping stations, water .....	2,546	78	2,624	359	72	431	414	63	477
42. Water storage tanks .....	270	42	312	124	10	134	16	6	24
Dams and irrigation .....	5,929	4,142	10,071	6,705	4,200	10,905	6,802	4,230	11,032
43. Dams and reservoirs .....	666	315	981	1,356	313	1,669	1,387	292	1,679
44. Irrigation and land reclamation projects .....	5,263	3,827	9,090	5,349	3,887	9,236	5,415	3,938	9,353
Electric power construction .....	3,317	838	4,155	1,685	606	2,291	1,756	602	2,358
45. Electric power generating plants, including water conveying and controlling structures .....	1,909	390	2,299	604	260	864	259	279	538
46. Electric transformer stations .....	405	16	421	242	15	257	633	12	645
47. Power transmission and distribution lines, trolley wires .....	989	415	1,404	823	311	1,134	839	293	1,132
48. Street lighting .....	14	17	31	16	20	36	25	18	43
Railway, telephone and telegraph .....	3,689	2,724	6,413	2,424	1,631	4,055	1,389	1,330	2,719
49. Railway tracks and roadbed .....	3,542	2,439	5,981	2,357	1,405	3,762	579	1,138	1,717
50. Signals and interlockers .....	—	—	—	—	—	—	694	—	694
51. Telegraph and telephone lines, underground and marine cables .....	147	285	432	67	226	293	116	192	308
Gas and oil facilities .....	197,648	8,032	205,680	254,342	8,964	263,306	192,972	9,326	202,298
52. Gas mains and services .....	—	—	—	175	68	241	80	63	143
53. Pumping stations, oil .....	—	3	3	—	2	2	—	1	1
54. Pumping stations, gas .....	23	—	23	9	—	9	258	—	258
55. Oil storage tanks .....	5,205	66	5,271	2,320	31	2,351	1,865	36	1,901
56. Gas storage tanks .....	—	—	—	17	—	17	6	—	6
57. Oil pipe lines .....	331	87	418	1,289	89	1,378	934	93	1,027
58. Gas pipe lines .....	2,895	249	3,144	5,279	82	5,361	706	52	758
59. Oil wells .....	135,426	5,737	141,163	122,798	5,640	128,438	124,777	5,641	130,418
60. Gas wells .....	33,578	624	34,202	46,691	1,510	48,201	44,201	1,619	45,820
61. Oil refinery — processing units .....	422	2	424	296	—	296	465	—	465
62. Natural gas cleaning plants .....	19,768	1,264	21,032	75,468	1,544	77,012	19,680	1,821	21,501
Other engineering construction .....	35,830	8,708	44,538	34,732	10,191	44,923	40,886	9,543	50,429
63. Bridges, trestles, culverts, overpasses, viaducts .....	462	267	729	604	603	1,207	422	155	577
64. Tunnels and subways .....	16	1	17	29	—	29	4	—	4
65. Incinerators .....	—	2	2	—	4	4	—	—	—
66. Park systems, landscaping, sodding, etc. ....	57	35	92	76	34	110	91	44	135
67. Swimming pools, tennis courts, outdoor recreation facilities .....	11	1	12	16	29	45	22	33	55
68. Mine shafts and other below surface workings .....	26,242	3,155	29,397	24,918	4,224	29,140	29,046	4,031	33,077
69. Fences, snowsheds, signs, guard rails .....	5,330	3,831	9,161	5,417	3,900	9,317	5,556	3,946	9,502
70. Other engineering construction .....	3,712	1,416	5,128	3,874	1,397	5,071	5,745	1,334	7,079

<sup>1</sup> Actual 1960, preliminary 1961, intentions 1962.

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

TABLE 11. Manufacturing

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	335,252	125,896	461,148	268,409	119,803	388,212	320,401	121,708	442,109
Total building construction .....	263,953	90,872	354,825	212,272	82,050	294,322	253,183	83,906	337,089
Residential .....	-	-	-	-	-	-	-	-	-
Industrial .....	222,615	86,936	309,551	189,459	78,976	268,435	232,338	80,911	313,249
2. Factories, plants, workshops, food canneries .....	221,130	83,721	304,851	187,682	75,990	263,672	230,617	78,268	308,885
3. Mine and mine mill buildings .....	469	33	502	409	25	434	427	162	589
4. Railway stations, offices, roadway buildings .....	58	73	131	161	6	169	125	11	136
5. Railway shops, engine houses, water and fuel stations .....	958	3,109	4,067	1,207	2,953	4,160	1,169	2,470	3,639
Commercial .....	38,730	3,327	42,057	21,970	2,681	24,651	20,345	2,561	22,906
6. Warehouses, storehouses, refrigerated storage, etc. ....	20,977	880	21,857	13,820	1,099	14,919	11,272	1,006	12,280
7. Grain elevators .....	230	77	307	829	125	954	51	168	219
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	224	215	439	320	96	416	50	95	145
9. Office buildings .....	15,860	1,902	17,762	6,203	1,228	7,429	8,492	1,139	9,631
10. Stores, retail and wholesale .....	1,229	206	1,435	497	95	592	324	103	427
11. Garages and service stations .....	183	31	214	286	29	315	131	29	160
12. Theatres, arenas, amusement and recreational buildings .....	27	16	43	15	11	26	25	19	44
13. Laundries and dry cleaning establishments .....	-	-	-	-	-	-	-	-	-
Institutional .....	4	39	43	148	27	175	171	89	260
14. Schools and other educational buildings .....	-	-	-	137	-	137	123	-	123
15. Churches and other religious buildings .....	-	-	-	-	-	-	-	51	51
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	4	39	43	11	27	38	48	38	86
17. Other institutional buildings .....	-	-	-	-	-	-	-	-	-
Other building construction .....	2,604	570	3,174	695	366	1,061	329	345	674
18. Farm buildings (excluding dwellings) .....	976	111	1,087	295	145	440	172	88	260
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	-	2	2	3	4	7	-	2	2
20. Aeroplane hangars .....	691	151	1,042	20	7	27	30	5	35
21. Passenger terminals, bus, boat or air .....	-	-	-	-	-	-	-	-	-
22. Armouries, barracks, drill halls, etc. ....	-	-	-	-	-	-	-	-	-
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	733	306	1,039	377	210	587	127	250	377
24. Other building construction .....	4	-	4	-	-	-	-	-	-
Total engineering construction .....	71,299	35,024	106,323	56,137	37,753	93,890	67,218	37,802	105,020
Marine construction .....	5,321	2,303	7,624	5,419	1,783	7,202	1,494	1,535	3,029
25. Docks, wharves, piers, breakwaters .....	5,076	1,775	6,851	3,636	1,163	4,799	1,225	879	2,104
26. Retaining walls, embankments, ripraping .....	53	7	60	29	40	69	10	13	23
27. Canals and waterways .....	45	66	111	-	-	-	-	-	-
28. Dredging and pile driving .....	91	252	343	77	332	409	248	435	683
29. Dyke construction .....	2	3	5	-	16	16	-	7	7
30. Logging booms .....	54	150	204	98	161	259	11	168	179
31. Other marine construction .....	-	50	50	1,579	71	1,650	-	33	33

TABLE 11. Manufacturing — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	5,957	1,674	7,631	2,803	1,420	4,023	1,687	1,260	2,947
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	2,858	810	3,668	1,319	691	2,010	906	610	1,516
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	1,365	348	1,713	593	240	833	229	231	460
34. Dirt, clay or other streets, roads, parking lots, etc. ....	526	338	864	401	437	838	449	352	801
35. Grading, scraping, oiling, filling .....	1,122	144	1,266	265	35	300	72	40	112
36. Sidewalks, paths .....	75	29	104	25	15	40	31	25	56
37. Aerodromes, landing fields, runways, tarmac .....	11	5	16	—	2	2	—	2	2
Waterworks and sewage systems .....	4,805	1,325	5,930	4,914	1,080	5,994	2,748	1,008	3,758
38. Tile drains, drainage ditches, storm sewers .....	590	57	647	275	57	332	86	35	121
39. Water mains, hydrants and services .....	1,747	605	2,352	1,408	408	1,816	1,359	380	1,739
40. Sewage systems and connections .....	1,032	335	1,367	1,163	196	1,359	714	157	871
41. Pumping stations, water .....	739	277	1,016	1,672	309	1,981	491	331	822
42. Water storage tanks .....	497	51	548	396	110	506	98	105	203
Dams and irrigation .....	311	91	402	96	151	247	—	184	184
43. Dams and reservoirs .....	282	91	373	96	147	243	—	184	184
44. Irrigation and land reclamation projects .....	29	—	29	—	4	4	—	—	—
Electric power construction .....	2,688	1,490	4,178	4,189	1,601	5,790	3,880	1,431	5,311
45. Electric power generating plants, including water conveying and controlling structures .....	824	529	1,353	1,993	371	2,364	1,767	309	2,076
46. Electric transformer stations .....	1,237	645	1,882	1,211	353	1,564	1,394	95	1,489
47. Power transmission and distribution lines, trolley wires .....	612	306	918	937	848	1,785	712	1,020	1,732
48. Street lighting .....	15	10	25	48	29	77	7	7	14
Railway, telephone and telegraph .....	1,711	1,018	2,727	747	702	1,449	586	732	1,318
49. Railway tracks and roadbed .....	1,703	971	2,674	712	666	1,378	558	690	1,248
50. Signals and interlockers .....	—	—	—	26	—	26	16	—	16
51. Telegraph and telephone lines, underground and marine cables .....	8	45	53	9	36	45	12	42	54
Gas and oil facilities .....	46,810	26,275	73,085	35,834	28,253	64,087	56,195	29,255	85,450
52. Gas mains and services .....	79	34	113	75	16	91	45	30	75
53. Pumping stations, oil .....	2	4	6	113	—	113	—	1	1
54. Pumping stations, gas .....	—	1	1	—	—	—	—	—	—
55. Oil storage tanks .....	6,019	1,026	7,045	1,595	904	2,499	3,821	853	4,674
56. Gas storage tanks .....	35	13	48	64	1	65	—	2	2
57. Oil pipe lines .....	1,235	73	1,308	650	133	783	230	116	346
58. Gas pipe lines .....	383	39	422	56	27	83	228	19	247
59. Oil wells .....	—	—	—	—	—	—	—	—	—
60. Gas wells .....	63	120	183	—	—	—	—	—	—
61. Oil refinery — processing units .....	38,994	24,965	63,959	33,122	26,535	59,657	51,765	27,600	79,365
62. Natural gas cleaning plants .....	—	—	—	159	637	796	106	634	740
Other engineering construction .....	3,896	850	4,746	2,335	2,763	5,098	628	2,397	3,025
63. Bridges, trestles, culverts, overpasses, viaducts .....	2,539	253	2,792	1,415	297	1,712	67	312	379
64. Tunnels and subways .....	45	—	45	6	1	7	—	1	1
65. Incinerators .....	55	4	59	45	—	45	156	10	166
66. Park systems, landscaping, sodding, etc. ....	276	408	684	157	209	366	33	229	262
67. Swimming pools, tennis courts, outdoor recreation facilities ..	102	5	107	1	—	1	22	10	32
68. Mine shafts and other below surface workings .....	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails .....	303	62	365	135	95	230	126	80	206
70. Other engineering construction .....	576	118	694	576	2,161	2,737	224	1,755	1,979

TABLE 12. Utilities

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	1,073,866	269,103	1,342,969	1,097,414	281,373	1,378,787	1,074,252	305,622	1,379,874
Total building construction .....	117,861	32,272	150,133	101,934	31,524	133,458	98,791	33,774	132,565
Residential .....	-	-	-	-	-	-	-	-	-
Industrial .....	26,482	16,974	43,456	17,009	16,713	33,722	16,330	19,082	35,412
2. Factories, plants, workshops, food canneries .....	6,026	1,762	7,788	1,971	1,035	3,006	3,149	1,144	4,293
3. Mine and mine mill buildings .....	6	-	6	181	-	181	203	-	203
4. Railway stations, offices, roadway buildings .....	11,853	10,920	22,773	10,191	11,470	21,661	9,279	12,795	22,074
5. Railway shops, engine houses, water and fuel stations .....	8,597	4,292	12,689	4,666	4,208	8,874	3,699	5,143	8,842
Commercial .....	41,118	12,736	53,854	51,490	12,576	64,066	53,147	12,400	65,547
6. Warehouses, storehouses, refrigerated storage, etc. ....	6,094	2,322	8,416	6,827	2,223	9,050	6,874	2,390	9,264
7. Grain elevators .....	13,063	7,485	20,548	17,638	6,541	24,179	20,190	5,363	25,553
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	152	2	154	79	-	79	-	5	5
9. Office buildings .....	13,229	1,488	14,717	21,537	1,852	23,389	20,681	2,035	22,716
10. Stores, retail and wholesale .....	-	18	18	9	2	11	-	-	-
11. Garages and service stations .....	8,580	1,421	10,001	5,400	1,956	7,358	5,402	2,607	8,009
12. Theatres, arenas, amusement and recreational buildings .....	-	-	-	-	-	-	-	-	-
13. Laundries and dry cleaning establishments .....	-	-	-	-	-	-	-	-	-
Institutional .....	110	2	112	21	-	21	-	-	-
14. Schools and other educational buildings .....	107	2	109	21	-	21	-	-	-
15. Churches and other religious buildings .....	3	-	3	-	-	-	-	-	-
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	-	-	-	-	-	-	-	-	-
17. Other institutional buildings .....	-	-	-	-	-	-	-	-	-
Other building construction .....	50,151	2,560	52,711	33,414	2,235	35,649	29,314	2,292	31,606
18. Farm buildings (excluding dwellings) .....	-	-	-	-	-	-	-	-	-
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	41,241	1,345	42,586	28,760	1,420	30,180	26,427	1,555	27,982
20. Aeroplane hangars .....	6,189	139	6,328	3,688	381	4,069	2,407	325	2,732
21. Passenger terminals, bus, boat or air .....	199	992	1,191	54	282	336	345	283	628
22. Armouries, barracks, drill halls, etc. ....	-	-	-	-	-	-	-	-	-
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	2,521	84	2,605	823	63	888	66	50	116
24. Other building construction .....	1	-	1	89	89	178	69	79	148
Total engineering construction .....	956,005	236,831	1,192,836	995,480	240,849	1,245,329	975,461	271,848	1,247,309
Marine construction .....	38,854	3,429	42,283	40,686	3,483	44,169	20,444	4,116	24,560
25. Docks, wharves, piers, breakwaters .....	21,610	1,526	23,138	23,620	1,607	25,227	10,732	1,973	12,705
26. Retaining walls, embankments, ripraping .....	3,029	10	3,039	19	1	20	209	7	216
27. Canals and waterways .....	4,853	913	5,766	2,558	1,036	3,594	1,799	1,294	3,093
28. Dredging and pile driving .....	9,351	913	10,264	14,417	776	15,193	7,685	768	8,453
29. Dyke construction .....	7	-	7	7	-	7	-	-	-
30. Logging booms .....	4	-	4	5	25	30	19	26	45
31. Other marine construction .....	-	67	67	60	38	98	-	48	48

TABLE 12. Utilities — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	9,932	539	10,471	7,441	967	8,408	29,216	442	29,658
32. Hard surfaced or paved streets, highways, parking lots, etc. ....	1,370	279	1,649	1,867	239	2,106	11,251	214	11,465
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	6,649	76	6,725	5,216	625	5,841	7,642	129	7,771
34. Dirt, clay or other streets, roads, parking lots, etc. ....	893	96	989	209	21	230	300	22	322
35. Grading, scraping, oiling, filling .....	892	82	974	27	82	109	10,015	77	10,092
36. Sidewalks, paths .....	87	6	93	10	—	10	8	—	8
37. Aerodromes, landing fields, runways, tarmac .....	41	—	41	112	—	112	—	—	—
Waterworks and sewage systems .....	72,787	18,581	91,368	70,744	18,109	88,853	102,332	23,587	125,919
38. Tile drains, drainage ditches, storm sewers .....	83	36	119	67	46	113	4	7	11
39. Water mains, hydrants and services .....	51,491	15,058	66,549	48,927	14,634	63,561	60,077	17,234	77,311
40. Sewage systems and connections .....	9,167	40	9,207	10,575	55	10,630	25,554	39	25,593
41. Pumping stations, water .....	10,310	3,303	13,613	9,421	2,990	12,411	10,678	2,870	13,548
42. Water storage tanks .....	1,738	144	1,880	1,754	384	2,138	6,019	3,437	9,456
Dams and irrigation .....	58,592	832	59,424	53,986	832	54,818	76,955	782	77,737
43. Dams and reservoirs .....	58,535	832	59,367	53,986	832	54,818	76,955	782	77,737
44. Irrigation and land reclamation projects .....	57	—	57	—	—	—	—	—	—
Electric power construction .....	283,063	43,303	326,366	327,875	51,314	379,189	344,784	50,130	394,814
45. Electric power generating plants, including water conveying and controlling structures .....	110,822	9,759	120,581	144,838	11,303	156,141	136,930	9,531	146,461
46. Electric transformer stations .....	34,194	6,653	40,847	39,027	7,860	48,887	47,909	7,867	55,776
47. Power transmission and distribution lines, trolley wires .....	130,552	24,781	155,333	136,849	29,705	166,554	152,875	30,348	183,223
48. Street lighting .....	7,495	2,110	9,605	7,161	2,446	9,607	7,070	2,384	9,454
Railway, telephone and telegraph .....	292,030	148,372	440,402	221,200	153,388	374,586	226,795	168,347	395,142
49. Railway tracks and roadbed .....	157,379	102,425	259,814	106,828	109,518	216,346	97,796	122,051	219,847
50. Signals and interlockers .....	7,080	3,616	13,696	4,829	7,426	12,255	4,437	8,206	12,643
51. Telegraph and telephone lines, underground and marine cables .....	127,571	39,321	166,892	109,543	36,444	145,987	124,562	38,090	162,852
Gas and oil facilities .....	147,196	9,279	156,475	212,434	8,807	221,241	113,902	9,803	123,705
52. Gas mains and services .....	54,379	5,938	60,315	49,065	5,376	54,441	50,525	5,676	58,201
53. Pumping stations, oil .....	3,073	910	3,983	3,277	996	4,273	3,220	1,035	4,255
54. Pumping stations, gas .....	27,272	47	27,319	15,718	86	15,804	24,977	150	25,127
55. Oil storage tanks .....	388	161	549	2,038	65	2,103	535	81	618
56. Gas storage tanks .....	251	24	275	888	28	916	188	31	218
57. Oil pipe lines .....	13,055	1,337	14,392	39,494	1,484	40,958	6,728	1,836	8,564
58. Gas pipe lines .....	48,447	791	49,238	101,533	705	102,238	27,262	917	28,179
59. Oil wells .....	—	—	—	—	—	—	—	—	—
60. Gas wells .....	278	24	302	404	21	425	450	24	474
61. Oil refinery — processing units .....	—	—	—	—	—	—	—	—	—
62. Natural gas cleaning plants .....	53	49	102	17	66	83	17	53	70
Other engineering construction .....	53,551	12,486	66,047	61,114	12,949	74,063	61,033	14,841	75,674
63. Bridges, trestles, culverts, overpasses, viaducts .....	32,432	9,324	41,756	36,177	9,689	45,866	23,203	10,970	34,173
64. Tunnels and subways .....	17,863	48	17,911	17,845	246	18,091	30,389	370	30,759
65. Incinerators .....	—	—	—	—	—	—	61	—	61
66. Park systems, landscaping, sodding, etc. ....	157	60	217	155	100	255	642	65	707
67. Swimming pools, tennis courts, outdoor recreation facilities .....	—	8	8	—	—	—	21	—	21
68. Mine shafts and other below surface workings .....	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails .....	2,480	2,221	4,701	1,862	2,065	3,927	1,651	2,308	3,959
70. Other engineering construction .....	619	835	1,454	5,075	849	5,924	5,066	928	5,994

TABLE 13. Trade Finance and Commercial Services

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	466,393	68,508	534,801	464,452	68,414	532,866	449,135	61,011	510,146
Total building construction .....	443,341	65,810	509,151	445,802	66,570	512,372	432,640	59,186	491,826
Residential .....	—	—	—	—	—	—	—	—	—
Industrial .....	9,024	659	9,683	3,719	448	4,167	3,483	408	3,891
2. Factories, plants, work shops, food canneries .....	9,024	659	9,683	3,719	408	4,127	3,483	408	3,891
3. Mine and mine mill buildings .....	—	—	—	—	—	—	—	—	—
4. Railway stations, offices, roadway buildings .....	—	—	—	—	—	—	—	—	—
5. Railway shops, engine houses, water and fuel stations .....	—	—	—	—	40	40	—	—	—
Commercial .....	429,943	64,960	494,903	439,300	65,934	505,234	426,238	58,632	484,870
6. Warehouses, storehouses, refrigerated storage, etc. ....	29,334	5,400	34,734	27,906	5,820	33,726	23,293	5,404	28,697
7. Grain elevators .....	—	—	—	2	—	2	2	—	2
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	32,519	9,282	41,801	26,137	11,007	37,144	31,149	8,290	39,439
9. Office buildings .....	163,599	13,605	177,204	196,955	14,108	211,063	169,679	12,971	182,650
10. Stores, retail and wholesale .....	159,005	26,728	185,733	137,239	22,065	159,304	158,993	22,966	181,959
11. Garages and service stations .....	30,894	7,729	38,623	33,771	11,000	44,771	26,772	7,284	34,056
12. Theatres, arenas, amusement and recreational buildings .....	13,813	1,382	15,195	15,581	1,078	16,659	15,653	879	16,532
13. Laundries and dry cleaning establishments .....	779	834	1,613	1,709	856	2,565	697	838	1,535
Institutional .....	2,572	176	2,748	2,503	188	2,891	2,898	148	3,044
14. Schools and other educational buildings .....	—	—	—	—	—	—	—	—	—
15. Churches and other religious buildings .....	—	—	—	—	—	—	—	—	—
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	1,673	166	1,839	1,980	185	2,165	2,497	143	2,640
17. Other institutional buildings .....	899	10	909	523	3	528	401	3	404
Other building construction .....	1,802	15	1,817	280	—	280	21	—	21
18. Farm buildings (excluding dwellings) .....	1,697	5	1,702	228	—	228	21	—	21
19. Broadcasting, radio and television, relay and booster stations telephone exchanges .....	—	—	—	—	—	—	—	—	—
20. Aeroplane hangars .....	—	—	—	—	—	—	—	—	—
21. Passenger terminals, bus, boat or air .....	—	—	—	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc. ....	—	—	—	—	—	—	—	—	—
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	78	—	78	—	—	—	—	—	—
24. Other building construction .....	27	10	37	52	—	52	—	—	—
Total engineering construction .....	23,052	2,698	25,750	16,650	1,844	20,494	16,495	1,825	18,320
Marine construction .....	2,824	101	2,925	1,400	29	1,429	598	28	626
25. Docks, wharves, piers, breakwaters .....	1,917	79	1,996	1,175	26	1,201	540	28	566
26. Retaining walls, embankments, ripraping .....	103	—	103	76	—	76	—	—	—
27. Canals and waterways .....	—	—	—	—	—	—	—	—	—
28. Dredging and pile driving .....	588	—	586	143	—	143	—	—	—
29. Dyke construction .....	216	22	236	2	—	2	4	—	4
30. Logging booms .....	—	—	—	—	—	—	4	—	4
31. Other marine construction .....	—	—	—	4	3	7	50	2	52

TABLE 13. Trade Finance and Commercial Services — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	6,238	775	7,013	5,964	369	6,333	6,314	458	6,772
32. Hard surfaced or paved streets, highways, parking lots, etc .....	5,307	668	5,975	4,459	308	4,767	4,734	393	5,127
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	382	80	462	664	42	706	862	48	910
34. Dirt, clay or other streets, roads, parking lots, etc. ....	31	9	40	181	9	190	79	8	87
35. Grading, scraping, oiling, filling .....	406	18	424	463	10	493	509	8	517
36. Sidewalks, paths .....	103	—	103	177	—	177	130	1	131
37. Aerodromes, landing fields, runways, tarmac .....	9	—	9	—	—	—	—	—	—
Waterworks and sewage systems .....	2,603	24	2,627	2,635	45	2,680	1,725	16	1,741
38. Tile drains, drainage ditches, storm sewers .....	582	11	593	539	20	559	538	2	540
39. Water mains, hydrants and services .....	1,319	—	1,319	390	14	404	495	—	495
40. Sewage systems and connections .....	702	13	715	1,288	11	1,299	601	9	610
41. Pumping stations, water .....	—	—	—	418	—	418	91	—	91
42. Water storage tanks .....	—	—	—	—	—	—	—	5	5
Dams and irrigation .....	—	—	—	36	—	36	3	—	3
43. Dams and reservoirs .....	—	—	—	4	—	4	3	—	3
44. Irrigation and land reclamation projects .....	—	—	—	32	—	32	—	—	—
Electric power construction .....	145	6	151	719	3	722	209	3	212
45. Electric power generating plants, including water conveying and controlling structures .....	—	3	3	29	—	29	—	—	—
46. Electric transformer stations .....	—	—	—	—	1	1	—	2	2
47. Power transmission and distribution lines, trolley wires .....	40	—	40	62	—	62	80	1	81
48. Street lighting .....	105	3	108	628	2	630	129	—	129
Railway, telephone and telegraph .....	331	4	335	52	1	53	32	2	34
49. Railway tracks and roadbed .....	331	4	335	42	1	43	32	2	34
50. Signals and interlockers .....	—	—	—	—	—	—	—	—	—
51. Telegraph and telephone lines, underground and marine cables .....	—	—	—	10	—	10	—	—	—
Gas and oil facilities .....	9,500	1,401	10,901	6,628	958	7,786	6,901	844	7,745
52. Gas mains and services .....	—	—	—	2	—	2	—	—	—
53. Pumping stations, oil .....	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas .....	21	6	27	15	5	20	32	4	38
55. Oil storage tanks .....	8,066	1,367	9,433	5,066	888	5,954	4,511	834	5,345
56. Gas storage tanks .....	1,302	18	1,320	1,472	60	1,532	1,780	1	1,781
57. Oil pipe lines .....	111	10	121	238	5	243	537	5	542
58. Gas pipe lines .....	—	—	—	35	—	35	41	—	41
59. Oil wells .....	—	—	—	—	—	—	—	—	—
60. Gas wells .....	—	—	—	—	—	—	—	—	—
61. Oil refinery — processing units .....	—	—	—	—	—	—	—	—	—
62. Natural gas cleaning plants .....	—	—	—	—	—	—	—	—	—
Other engineering construction .....	1,411	387	1,796	1,016	439	1,455	713	474	1,176
63. Bridges, trestles, culverts, overpasses, viaducts .....	64	—	64	18	3	21	25	2	27
64. Tunnels and subways .....	—	—	—	—	—	—	—	—	—
65. Incinerators .....	—	—	—	1	—	1	3	—	3
66. Park systems, landscaping, sodding, etc. ....	206	1	207	70	5	75	72	6	78
67. Swimming pools, tennis courts, outdoor recreation facilities .....	64	270	354	375	407	782	23	427	450
68. Mine shafts and other below surface workings .....	—	—	—	—	—	—	—	—	—
69. Fences, snowsheds, signs, guard rails .....	436	116	552	228	16	244	338	28	366
70. Other engineering construction .....	621	—	621	324	8	332	252	11	263

TABLE 14. Federal Government Departments

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	303,078	73,379	376,457	344,511	74,444	418,955	361,509	79,857	441,366
Total building construction .....	162,173	43,319	205,494	170,906	44,010	214,916	178,827	47,101	225,928
2. Factories, plants, workshops, food canneries .....	22,142	4,993	27,135	20,294	5,040	25,334	20,983	5,260	26,243
6. Warehouses, storehouses, refrigerated storage, etc. ....	2,959	2,006	4,965	3,314	2,045	5,359	3,274	2,195	5,469
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	2,257	1,086	3,343	2,363	1,108	3,471	2,773	1,183	3,956
9. Office buildings .....	42,551	9,257	51,808	45,081	9,405	54,486	46,503	10,113	56,616
10. Stores, retail and wholesale .....	24	123	147	24	124	148	25	134	159
11. Garages and service stations .....	1,920	542	2,462	2,089	552	2,641	2,198	596	2,794
12. Theatres, arenas, amusement and recreational buildings .....	3,201	864	4,065	3,561	884	4,445	3,817	945	4,562
14. Schools and other educational buildings .....	13,499	2,225	15,724	15,333	2,261	17,594	15,325	2,414	17,739
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	11,556	1,343	12,899	11,520	1,361	12,881	12,610	1,466	14,076
17. Other institutional buildings .....	400	270	670	480	274	754	485	293	778
18. Farm buildings (excluding dwellings) .....	1,035	245	1,280	1,147	250	1,397	1,170	266	1,436
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	17,079	958	18,037	17,350	964	18,314	18,083	1,045	19,128
20. Aeroplane hangars .....	7,585	2,432	10,017	7,092	2,487	9,579	7,418	2,667	10,085
21. Passenger terminals, bus, boat or air .....	24,947	43	24,990	29,542	43	29,585	31,717	47	31,764
22. Armouries, barracks, drill halls, etc. ....	5,834	14,860	20,694	5,883	15,090	20,973	6,272	16,228	22,500
24. Other building construction .....	5,186	2,072	7,258	5,833	2,122	7,955	6,374	2,249	8,623
Total engineering construction .....	140,903	30,060	170,963	173,605	30,434	204,039	182,682	32,756	215,438
25. Docks, wharves, piers, breakwaters .....	31,017	3,292	34,309	31,760	3,295	35,055	34,048	3,592	37,640
26. Retaining walls, embankments, ripraping .....	546	249	795	679	251	930	741	272	1,013
27. Canals and waterways .....	253	363	616	260	369	629	279	397	676
28. Dredging and pile driving .....	2,256	3,198	5,454	2,328	3,185	5,513	2,688	3,483	6,171
29. Dyke construction .....	14	12	26	14	12	26	17	13	30
31. Other marine construction .....	1,177	104	1,281	1,254	106	1,360	1,218	112	1,330
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	18,379	1,688	20,067	20,055	1,721	21,776	19,405	1,825	21,230
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	13,099	3,867	16,966	14,463	3,879	18,342	12,981	4,234	17,215
34. Dirt, clay or other streets, roads, parking lots, etc. ....	768	481	1,249	892	493	1,385	872	524	1,396
35. Grading, scraping, oiling, filling .....	199	826	1,025	260	829	1,089	280	895	1,175
37. Aerodromes, landing fields, runways, tarmac .....	27,787	2,217	30,004	29,954	2,263	32,217	32,407	2,427	34,834
38. Tile drains, drainage ditches, storm sewers .....	210	1,016	1,226	455	1,022	1,477	389	1,110	1,499
39. Water mains, hydrants and services .....	2,821	1,068	3,889	2,919	1,088	4,007	3,273	1,169	4,442
40. Sewage systems and connections .....	2,022	548	2,570	2,180	560	2,740	2,405	596	3,003
43. Dams and reservoirs .....	12,846	2,132	14,978	30,478	2,211	32,689	36,040	2,291	38,331
44. Irrigation and land reclamation projects .....	2,539	1,079	3,618	2,890	1,116	4,006	3,126	1,176	4,302
45. Electric power generating plants, including water conveying and controlling structures .....	2,292	1,060	3,352	6,179	1,071	7,250	5,889	1,157	7,046
46. Electric transformer stations .....	189	128	317	181	130	311	130	141	271
47. Power transmission and distribution lines, trolley wires .....	1,039	760	1,799	1,166	767	1,933	1,205	829	2,034
55. Oil storage tanks .....	367	21	388	364	21	385	357	22	379
57. Oil pipe lines .....	278	—	278	311	—	311	319	—	319
63. Bridges, trestles, culverts, overpasses, viaducts .....	5,406	701	6,107	6,444	703	7,147	6,210	768	6,978
66. Park systems, landscaping, sodding, etc. ....	1,941	1,928	3,869	2,123	1,954	4,077	2,212	2,106	4,318
67. Swimming pools, tennis courts, outdoor recreation facilities ...	644	226	870	698	230	928	766	245	1,011
69. Fences, snowsheds, signs, guard rails .....	1,362	1,335	2,697	1,534	1,360	2,894	1,581	1,448	3,029
70. Other engineering construction .....	11,452	1,761	13,213	13,764	1,798	15,562	13,844	1,922	15,756

TABLE 15. Provincial Government Departments

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Total value of construction .....	530,022	149,547	679,569	535,730	155,465	691,195	561,659	157,046	718,705
Total building construction .....	32,285	25,340	57,625	46,391	11,008	57,399	55,945	11,946	67,891
2. Factories, plants, workshops, food canneries .....	2,740	148	2,888	1,288	—	1,286	1,258	—	1,256
6. Warehouses, storehouses, refrigerated storage, etc. ....	2,548	1,959	4,507	1,682	620	2,302	1,842	678	2,518
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	62	21	83	30	30	60	163	30	213
9. Office buildings .....	12,946	14,770	27,716	30,140	8,261	38,401	35,523	8,893	44,416
11. Garages and service stations .....	213	31	244	—	—	—	—	—	—
12. Theatres, arenas, amusement and recreational buildings .....	493	535	1,028	—	—	—	—	—	—
17. Other institutional buildings .....	10,346	7,251	17,597	11,061	1,724	12,785	14,875	1,934	16,809
24. Other building construction .....	2,937	625	3,562	2,192	373	2,565	2,266	413	2,679
Total engineering construction .....	497,737	124,207	621,944	489,339	144,457	633,796	505,714	145,100	650,814
25. Docks, wharves, piers, breakwaters .....	1,030	402	1,432	463	49	512	429	49	478
28. Dredging and pile driving .....	11,614	—	11,614	—	—	—	—	—	—
31. Other marine construction .....	468	920	1,388	2,073	47	2,120	2,781	46	2,821
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	254,317	60,231	314,548	257,223	69,173	326,396	272,912	70,890	343,602
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	101,716	46,412	148,128	95,609	58,072	153,681	91,311	57,007	148,318
34. Dirt, clay or other streets, roads, parking lots, etc. ....	109	119	228	2,285	650	2,935	2,748	729	3,475
35. Grading, scraping, oiling, filling .....	20,138	1,183	21,321	15,544	1,949	17,493	15,430	1,901	17,331
38. Tile drains, drainage ditches, storm sewers .....	1,122	117	1,239	1,948	1,020	2,968	2,743	1,087	3,830
39. Water mains, hydrants and services .....	114	60	174	843	17	860	920	26	946
43. Dams and reservoirs .....	400	196	596	545	80	625	581	63	664
44. Irrigation and land reclamation projects .....	1,817	637	2,654	2,806	634	3,440	3,639	620	4,459
47. Power transmission and distribution lines, trolley wires .....	147	1	148	1,821	—	1,821	1,821	—	1,821
51. Telegraph and telephone lines, underground and marine cables ..	918	10	928	27	14	41	35	9	44
63. Bridges, trestles, culverts, overpasses, viaducts .....	100,861	11,462	112,323	103,436	11,205	114,641	105,595	11,208	116,803
66. Park systems, landscaping, sodding, etc. ....	787	655	1,442	1,669	482	2,151	1,423	462	1,885
67. Swimming pools, tennis courts, outdoor recreation facilities ...	280	115	395	1,805	704	2,509	1,922	606	2,728
69. Fences, snowsheds, signs, guard rails .....	826	579	1,205	107	32	139	129	27	158
70. Other engineering construction .....	1,273	908	2,181	1,136	329	1,464	1,097	350	1,447

TABLE 16. Municipal Government Departments

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	337,681	103,842	441,443	340,783	91,712	432,485	376,274	90,458	466,732
Total building construction .....	43,799	6,868	50,667	52,575	8,934	61,509	60,937	7,875	68,812
2. Factories, plants, work shops, food canneries .....	1,751	463	2,214	2,503	646	3,149	3,616	625	4,241
9. Office buildings .....	11,038	1,032	12,070	10,293	1,348	11,641	17,060	965	18,025
10. Stores, retail and wholesale .....	53	37	90	54	28	80	59	26	85
11. Garages and service stations .....	2,318	173	2,491	2,396	164	2,560	1,091	65	1,156
12. Theatres, arenas, amusement and recreational buildings .....	8,118	1,399	9,517	12,794	3,197	15,991	14,766	3,169	17,935
16. Hospitals, sanatoria, clinics, first aid stations, etc. ....	546	87	633	811	108	919	234	93	327
17. Other institutional buildings .....	11,627	1,943	13,570	13,121	1,742	14,863	14,629	1,552	16,181
24. Other building construction .....	8,348	1,734	10,082	10,603	1,703	12,306	9,482	1,380	10,862
Total engineering construction .....	283,802	96,974	390,776	288,208	82,718	370,986	315,337	82,583	397,820
25. Docks, wharves, piers, breakwaters .....	718	110	828	1,103	126	1,229	2,333	124	2,457
32. Hard surfaced or paved streets, highways, parking lots, etc. ....	86,855	22,943	109,798	88,607	20,928	109,536	91,890	21,396	113,286
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	29,366	27,492	56,858	26,755	24,019	50,774	27,075	24,375	51,450
34. Dirt, clay or other streets, roads, parking lots, etc. ....	12,621	11,326	23,947	10,474	7,477	17,951	10,740	7,356	18,096
35. Grading, scraping, oiling, filling .....	657	256	913	687	182	849	726	180	906
36. Sidewalks, paths .....	18,108	5,002	23,110	15,935	4,135	20,070	15,474	4,218	19,682
38. Tile drains, drainage ditches, storm sewers .....	9,171	7,664	16,835	8,581	7,093	15,674	8,950	7,035	15,985
40. Sewage systems and connections .....	88,586	8,632	97,418	89,255	7,984	97,219	107,909	7,616	115,525
48. Street lighting .....	3,973	2,030	6,003	4,910	3,140	8,050	4,412	3,303	7,715
63. Bridges, trestles, culverts, overpasses, viaducts .....	28,974	3,651	32,625	27,143	3,116	30,259	32,304	2,588	34,892
64. Tunnels and subways .....	3,598	56	3,654	4,626	266	4,892	3,942	268	4,210
65. Incinerators .....	1,812	1,468	3,280	1,379	406	1,785	800	388	1,188
66. Park systems, landscaping, sodding, etc. ....	1,447	547	1,994	1,469	389	1,858	1,600	384	1,984
67. Swimming pools, tennis courts, outdoor recreation facilities .....	1,369	398	1,767	1,390	284	1,674	1,514	280	1,794
69. Fences, snowsheds, signs, guard rails .....	205	285	490	208	203	411	227	200	427
70. Other engineering construction .....	6,342	4,914	11,256	5,706	3,049	8,755	5,441	2,872	6,313

TABLE 17. Housing and Institutional Services

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Residential .....	1,456,100	457,000	1,913,100	1,467,000	484,000	1,951,000	1,533,000	513,000	2,046,000
<b>Institutional:</b>									
Total value of work performed .....	500,589	58,859	559,548	535,526	64,064	599,590	699,458	64,863	764,321
6. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	624	17	641	538	2	540	1,980	6	1,986
9. Office buildings .....	200	—	200	678	22	700	2,067	37	2,104
12. Theatres, arenas, amusement and recreational buildings .....	805	11	816	1,885	29	1,894	1,974	22	1,996
14. Schools and other educational buildings .....	296,369	33,516	329,885	304,431	35,794	340,225	423,914	37,399	461,313
15. Churches and other religious buildings .....	60,433	8,132	69,565	56,154	8,995	65,149	62,695	7,064	89,759
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	122,691	14,692	137,383	148,327	17,364	165,691	174,680	18,859	193,539
17. Other institutional buildings .....	10,988	1,113	12,099	17,342	1,237	18,579	12,174	759	12,933
18. Farm buildings (excluding dwellings) .....	97	66	165	144	29	173	114	41	155
23. Bunkhouses, dormitories, camp cookeries, busb depots and camps .....	5,568	118	5,686	2,787	63	2,830	16,024	84	16,108
24. Other building construction .....	468	1	468	707	54	761	182	44	226
Total engineering construction .....	2,348	291	2,639	2,573	475	3,048	3,654	548	4,202

VALUE OF CONSTRUCTION WORK PERFORMED, BY TYPE OF STRUCTURE - PROVINCES, 1960-62

TABLE 18. Newfoundland

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	113,536	24,972	138,508	135,799	27,380	163,179	154,253	27,685	181,938
Total building construction .....	62,778	15,427	78,203	77,439	14,422	91,861	98,249	14,617	112,866
Residential .....	30,400	9,600	40,000	24,800	8,200	33,000	26,100	8,700	34,800
Industrial .....	10,430	1,677	12,107	29,476	1,433	30,909	37,595	1,398	38,993
Commercial .....	5,713	1,543	7,256	8,227	1,474	9,701	8,023	1,302	9,325
Institutional .....	9,683	1,416	11,099	9,953	2,237	12,190	18,949	2,016	20,965
Other building construction .....	6,550	1,191	7,741	4,983	1,078	6,061	7,582	1,201	8,783
Total engineering construction .....	50,760	9,545	60,305	58,360	12,958	71,318	56,004	13,068	69,072
Marine construction .....	9,012	930	9,942	18,825	1,173	19,998	27,232	1,083	28,315
Road, highway and aerodrome construction .....	18,802	5,925	24,727	13,700	8,974	22,674	13,024	8,954	21,978
Waterworks and sewage systems .....	1,043	534	1,577	2,292	976	3,268	3,697	663	4,560
Dams and irrigation .....	200	64	264	334	67	401	477	48	525
Electric power construction .....	7,157	684	7,841	10,998	637	11,635	5,480	756	6,236
Railway, telephone and telegraph .....	8,217	976	9,193	5,172	939	6,111	3,221	1,109	4,330
Gas and oil facilities .....	2,760	58	2,818	5,580	58	5,636	1,360	294	1,654
Other engineering construction .....	3,569	374	3,943	1,459	136	1,595	1,313	161	1,474

TABLE 19. Prince Edward Island

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	24,337	5,886	30,223	24,617	5,966	30,583	24,462	6,124	30,586
Total building construction .....	12,167	3,762	15,929	14,479	3,755	18,234	13,957	3,913	17,870
Residential .....	4,400	1,400	5,800	6,000	1,900	7,900	6,100	2,100	8,200
Industrial .....	361	164	525	263	228	491	238	204	442
Commercial .....	1,724	536	2,260	2,290	485	2,775	1,499	371	1,870
Institutional .....	2,298	809	2,907	3,538	197	3,735	3,758	190	3,948
Other building construction .....	3,384	1,053	4,437	2,388	945	3,333	2,362	1,048	3,410
Total engineering construction .....	12,170	2,124	14,294	10,138	2,211	12,349	10,505	2,211	12,716
Marine construction .....	816	469	1,285	465	441	906	420	491	911
Road, highway and aerodrome construction .....	7,159	1,042	8,201	6,359	1,088	7,447	8,236	1,096	7,332
Waterworks and sewage systems .....	282	88	370	371	118	489	230	82	312
Dams and irrigation .....	53	43	96	48	40	88	54	45	99
Electric power construction .....	2,578	123	2,701	921	188	1,107	1,671	161	1,832
Railway, telephone and telegraph .....	564	177	741	577	199	776	733	187	920
Gas and oil facilities .....	264	9	273	323	13	336	51	12	63
Other engineering construction .....	454	173	627	1,074	126	1,200	1,110	137	1,247

TABLE 20. Nova Scotia

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
<b>Total value of construction .....</b>	<b>166,424</b>	<b>53,638</b>	<b>320,062</b>	<b>159,855</b>	<b>55,664</b>	<b>215,519</b>	<b>177,194</b>	<b>56,851</b>	<b>234,045</b>
<b>Total building construction .....</b>	<b>107,277</b>	<b>29,995</b>	<b>137,272</b>	<b>109,730</b>	<b>31,979</b>	<b>141,709</b>	<b>118,185</b>	<b>31,361</b>	<b>149,546</b>
<b>Residential .....</b>	<b>52,600</b>	<b>16,500</b>	<b>69,100</b>	<b>49,300</b>	<b>16,400</b>	<b>65,700</b>	<b>52,100</b>	<b>17,400</b>	<b>69,500</b>
<b>Industrial .....</b>	<b>8,171</b>	<b>3,063</b>	<b>11,234</b>	<b>13,217</b>	<b>2,844</b>	<b>16,061</b>	<b>5,962</b>	<b>2,995</b>	<b>8,957</b>
2. Factories, plants, workshops, food canneries .....	7,452	2,555	10,007	12,660	2,345	15,005	5,502	2,386	7,888
3. Mine and mine mill buildings .....	116	31	147	93	21	114	56	45	101
4. Railway stations, offices, roadway buildings .....	389	304	693	308	317	625	268	375	643
5. Railway shops, engine houses, water and fuel stations .....	214	173	387	156	161	317	136	189	325
<b>Commercial .....</b>	<b>15,734</b>	<b>3,961</b>	<b>19,695</b>	<b>15,817</b>	<b>6,387</b>	<b>22,204</b>	<b>18,690</b>	<b>4,225</b>	<b>22,915</b>
6. Warehouses, storehouses, refrigerated storage, etc. ....	2,775	929	3,704	1,562	842	2,404	2,508	881	3,389
7. Grain elevators .....	2	59	61	29	123	152	1	111	112
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	3,169	160	3,329	1,295	2,174	3,469	498	181	879
9. Office buildings .....	4,682	1,412	8,094	5,827	1,833	7,660	6,852	1,692	8,344
10. Stores, retail and wholesale .....	3,979	788	4,767	5,526	696	6,222	6,370	624	6,994
11. Garages and service stations .....	933	307	1,240	1,324	397	1,721	2,421	399	2,820
12. Theatres, arenas, amusement and recreational buildings .....	194	296	490	254	302	556	240	317	557
13. Laundries and dry cleaning establishments .....	—	10	10	—	20	20	—	20	20
<b>Institutional .....</b>	<b>23,631</b>	<b>2,146</b>	<b>25,777</b>	<b>24,420</b>	<b>2,121</b>	<b>26,541</b>	<b>30,307</b>	<b>2,320</b>	<b>32,627</b>
14. Schools and other educational buildings .....	12,992	934	13,926	13,226	1,033	14,261	15,310	1,168	16,478
15. Churches and other religious buildings .....	3,818	331	4,149	3,202	284	3,486	2,886	301	3,187
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	6,680	827	7,507	7,518	705	8,223	11,704	765	12,469
17. Other institutional buildings .....	141	54	195	472	99	571	407	86	493
<b>Other building construction .....</b>	<b>7,141</b>	<b>4,325</b>	<b>11,466</b>	<b>6,976</b>	<b>4,227</b>	<b>11,203</b>	<b>11,126</b>	<b>4,421</b>	<b>15,547</b>
18. Farm buildings (excluding dwellings) .....	1,767	1,286	3,053	1,757	1,281	3,038	1,780	1,298	3,078
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	1,123	145	1,268	605	89	694	734	75	809
20. Aeroplane hangars .....	2,374	646	3,020	2,722	608	3,330	3,381	848	4,029
21. Passenger terminals, bus, boat or air .....	590	63	653	678	7	685	738	28	766
22. Armouries, barracks, drill halls, etc. ....	784	1,979	2,763	901	2,063	2,964	976	2,194	3,170
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	271	141	412	128	114	242	3,449	106	3,555
24. Other building construction .....	232	65	297	185	65	250	68	72	140
<b>Total engineering construction .....</b>	<b>59,147</b>	<b>23,643</b>	<b>82,790</b>	<b>50,125</b>	<b>23,685</b>	<b>73,810</b>	<b>58,009</b>	<b>25,490</b>	<b>84,499</b>
<b>Marine construction .....</b>	<b>7,496</b>	<b>1,834</b>	<b>9,330</b>	<b>6,930</b>	<b>1,673</b>	<b>8,603</b>	<b>7,150</b>	<b>1,852</b>	<b>9,002</b>
25. Docks, wharves, piers, breakwaters .....	7,202	1,340	8,542	6,834	1,125	7,959	7,045	1,297	8,342
26. Retaining walls, embankments, ripraping .....	14	24	38	13	23	36	14	23	37
27. Canals and waterways .....	—	30	30	—	25	25	—	27	27
28. Dredging and pile driving .....	58	413	471	40	427	467	44	455	499
29. Dyke construction .....	136	—	136	—	—	—	—	—	—
30. Logging booms .....	—	—	—	—	—	—	—	—	—
31. Other marine construction .....	86	27	113	43	73	116	47	50	97

TABLE 20. Nova Scotia — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	22,087	9,834	31,911	20,163	13,012	33,175	20,808	13,458	34,267
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	18,912	7,003	23,915	15,197	9,519	24,716	15,245	9,355	24,600
33. Gravel or stone streets, highways, roads, parking lots, etc. ..	2,916	1,876	4,792	2,613	2,546	5,159	3,310	3,140	6,450
34. Dirt, clay or other streets, roads, parking lots, etc. .....	607	336	943	473	297	770	541	281	822
35. Grading, scraping, oiling, filling .....	420	15	435	8	16	24	7	16	23
36. Sidewalks, paths .....	270	92	362	767	81	848	508	77	585
37. Aerodromes, landing fields, runways, tarmac .....	962	532	1,494	1,105	553	1,658	1,197	590	1,787
Waterworks and sewage systems .....	2,812	1,510	4,322	3,284	893	4,177	3,944	807	4,751
38. Tile drains, drainage ditches, storm sewers .....	76	80	156	94	50	144	104	52	156
39. Water mains, hydrants and services .....	1,636	789	2,425	1,471	578	2,049	1,375	526	1,901
40. Sewage systems and connections .....	938	569	1,507	1,355	233	1,588	2,449	209	2,658
41. Pumping stations, water .....	155	72	227	364	32	396	18	20	38
42. Water storage tanks .....	7	—	7	—	—	—	—	—	—
Dams and irrigation .....	3,223	222	3,445	2,886	232	3,118	2,925	268	3,193
43. Dams and reservoirs .....	1,673	53	1,726	1,119	59	1,178	1,017	87	1,104
44. Irrigation and land reclamation projects .....	1,550	169	1,719	1,767	173	1,940	1,906	181	2,089
Electric power construction .....	8,795	1,783	10,558	6,138	1,675	7,813	7,569	2,038	9,607
45. Electric power generating plants, including water conveying and controlling structures .....	2,495	276	2,771	2,190	276	2,466	968	372	1,340
46. Electric transformer stations .....	641	59	700	286	131	417	812	144	956
47. Power transmission and distribution lines, trolley wires .....	5,410	1,363	6,773	3,396	1,146	4,544	5,383	1,390	6,773
48. Street lighting .....	249	65	314	266	120	388	406	132	538
Railway, telephone and telegraph .....	7,113	4,627	11,640	5,824	3,850	9,674	5,357	4,630	9,987
49. Railway tracks and roadbed .....	3,699	3,371	7,070	2,882	3,180	6,062	2,539	3,787	6,326
50. Signals and interlockers .....	198	153	351	160	182	342	140	211	351
51. Telegraph and telephone lines, underground and marine cables .....	3,216	1,003	4,219	2,882	588	3,470	2,678	832	3,310
Gas and oil facilities .....	887	1,103	1,890	603	838	1,539	6,033	839	8,872
52. Gas mains and services .....	—	—	—	—	—	—	—	—	—
53. Pumping stations, oil .....	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas .....	—	—	—	—	—	—	—	—	—
55. Oil storage tanks .....	446	103	549	411	34	445	92	37	129
56. Gas storage tanks .....	70	—	70	57	1	58	60	2	62
57. Oil pipe lines .....	—	—	—	—	—	—	—	—	—
58. Gas pipe lines .....	—	—	—	35	—	35	81	—	81
59. Oil wells .....	136	—	136	—	—	—	—	—	—
60. Gas wells .....	136	—	136	—	—	—	—	—	—
61. Oil refinery-processing units .....	99	1,000	1,099	100	901	1,001	5,800	900	6,700
82. Natural gas cleaning plants .....	—	—	—	—	—	—	—	—	—
Other engineering construction .....	6,734	2,830	9,564	4,197	1,314	6,511	5,223	1,487	6,720
63. Bridges, trestles, culverts, overpasses, viaducts .....	5,000	1,783	6,783	2,656	537	3,193	3,853	580	4,433
64. Tunnels and subways .....	—	18	18	5	19	24	6	20	26
65. Incinerators .....	319	24	343	73	58	131	5	30	35
66. Park systems, landscaping, sodding, etc. .....	316	232	548	361	241	602	391	254	845
67. Swimming pools, tennis courts, outdoor recreation facilities ..	20	18	38	150	19	169	150	20	170
68. Mine shafts and other below surface workings .....	234	372	606	281	193	474	170	320	490
69. Fences, snowsheds, signs, guard rails .....	407	220	627	390	212	602	415	232	647
70. Other engineering construction .....	438	163	601	281	35	316	233	41	274

TABLE 21. New Brunswick

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	119,513	36,795	156,308	106,170	44,110	150,280	108,388	44,468	152,796
Total building construction .....	62,398	17,046	79,444	59,960	19,240	79,200	65,739	19,879	85,618
Residential .....	25,100	7,800	32,900	28,600	9,700	38,300	30,700	10,300	41,000
Industrial .....	7,823	2,321	10,144	4,633	2,311	6,944	4,123	2,302	6,425
2. Factories, plants, workshops, food canneries .....	6,668	1,368	8,238	3,715	1,395	5,110	3,429	1,333	4,762
3. Mine and mine mill buildings .....	69	17	86	226	70	296	42	19	61
4. Railway stations, offices, roadway buildings .....	557	551	1,108	463	542	1,005	403	613	1,016
5. Railway shops, engine houses, water and fuel stations .....	329	385	714	229	304	533	249	337	586
Commercial .....	13,898	2,985	16,883	11,112	2,521	13,633	9,972	2,376	12,348
6. Warehouses, storehouses, refrigerated storage, etc. ....	2,253	627	2,880	1,064	427	1,491	626	468	1,296
7. Grain elevators .....	108	97	205	2	29	31	2	31	33
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	287	172	459	267	299	566	157	235	392
9. Office buildings .....	4,365	1,156	5,521	4,107	747	4,854	4,678	635	5,313
10. Stores, retail and wholesale .....	3,892	525	4,417	2,185	519	2,704	1,854	540	2,394
11. Garages and service stations .....	1,645	263	1,928	1,616	365	1,981	1,674	336	2,010
12. Theatres, arenas, amusement and recreational buildings .....	1,310	81	1,391	1,557	91	1,648	687	90	777
13. Laundries and dry cleaning establishments .....	38	44	82	314	44	358	92	41	133
Institutional .....	12,260	1,002	13,262	12,497	1,744	14,241	16,214	1,829	16,043
14. Schools and other educational buildings .....	6,806	301	7,109	7,741	254	7,995	9,049	206	9,255
15. Churches and other religious buildings .....	2,632	176	2,808	1,410	180	1,590	1,537	253	1,790
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	2,770	426	3,196	2,650	530	3,180	4,568	573	5,141
17. Other institutional buildings .....	50	99	149	696	780	1,476	1,060	797	1,857
Other building construction .....	3,317	2,938	6,255	3,118	2,964	6,082	4,730	3,072	7,802
18. Farm buildings (excluding dwellings) .....	1,711	1,229	2,940	1,684	1,190	2,874	1,684	1,204	2,888
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	790	97	887	781	128	909	1,209	126	1,335
20. Aeroplane hangars .....	96	134	230	83	134	217	132	146	278
21. Passenger terminals, bus, boat or air .....	—	—	—	—	—	—	—	—	—
22. Armouries, barracks, drill halls, etc. ....	175	1,056	1,231	169	1,063	1,232	241	1,149	1,390
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	490	221	711	303	211	514	1,088	196	1,264
24. Other building construction .....	55	201	256	98	238	336	376	251	627
Total engineering construction .....	57,115	19,749	76,864	46,210	24,870	71,080	42,649	24,529	67,178
Marine construction .....	5,224	595	5,819	4,431	563	4,994	6,628	634	7,262
25. Docks, wharves, piers, breakwaters .....	4,269	350	4,619	3,554	306	3,860	5,399	362	5,761
26. Retaining walls, embankments, ripraping .....	17	—	17	15	—	15	22	—	22
27. Canals and waterways .....	—	25	25	—	3	3	—	2	2
28. Dredging and pile driving .....	843	186	1,029	836	214	1,050	1,159	234	1,393
29. Dyke construction .....	29	—	29	8	—	8	11	—	11
30. Logging booms .....	52	24	76	4	30	34	18	25	43
31. Other marine construction .....	14	10	24	14	10	24	19	11	30

TABLE 21. New Brunswick — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	20,054	8,260	28,314	15,556	13,867	29,423	15,179	12,583	27,762
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	16,354	821	17,175	12,010	1,863	13,873	11,277	1,576	12,853
33. Gravel or stone streets, highways, roads, parking lots, etc. ..	2,418	6,759	9,177	2,350	11,356	13,706	2,542	10,379	12,921
34. Dirt, clay or other streets, roads, parking lots, etc. .....	1,017	551	1,568	912	513	1,425	1,066	484	1,550
35. Grading, scraping, oiling, filling .....	—	38	38	—	38	38	—	41	41
36. Sidewalks, paths .....	143	33	176	166	39	205	126	40	166
37. Aerodromes, landing fields, runways, tarmac .....	122	58	180	118	58	176	168	63	231
Waterworks and sewage systems .....	2,070	1,107	3,177	2,784	954	3,738	2,184	1,054	3,238
38. Tile drains, drainage ditches, storm sewers .....	8	90	98	233	85	318	204	80	284
39. Water mains, hydrants and services .....	1,586	840	2,426	998	739	1,737	1,378	818	2,196
40. Sewage systems and connections .....	463	129	592	1,222	118	1,340	280	122	402
41. Pumping stations, water .....	13	46	59	120	9	129	149	31	180
42. Water storage tanks .....	—	2	2	211	3	214	173	3	176
Dams and irrigation .....	280	150	430	271	142	413	388	136	524
43. Dams and reservoirs .....	—	37	37	—	31	31	40	20	60
44. Irrigation and land reclamation projects .....	280	113	393	271	111	382	348	116	464
Electric power construction .....	6,986	816	7,802	8,081	978	9,059	6,939	1,014	7,953
45. Electric power generating plants, including water conveying and controlling structures .....	1,715	264	1,979	2,464	242	2,706	959	255	1,214
46. Electric transformer stations .....	1,817	16	1,833	1,296	5	1,301	1,556	10	1,566
47. Power transmission and distribution lines, trolley wires .....	3,254	511	3,765	4,096	694	4,790	4,360	715	5,075
48. Street lighting .....	200	25	225	225	37	262	64	34	98
Railway, telephone and telegraph .....	8,626	6,113	14,739	6,924	6,345	13,269	6,586	7,003	13,589
49. Railway tracks and roadbed .....	5,781	4,820	10,601	4,389	5,084	9,473	3,834	5,719	9,553
50. Signals and interlockers .....	303	336	639	244	240	484	211	378	589
51. Telegraph and telephone lines, underground and marine cables .....	2,542	957	3,499	2,291	1,021	3,312	2,541	906	3,447
Gas and oil facilities .....	5,006	617	5,623	4,190	42	4,232	159	57	216
52. Gas mains and services .....	38	—	38	—	5	5	—	5	5
53. Pumping stations, oil .....	—	—	—	—	—	—	—	—	—
54. Pumping stations, gas .....	—	—	—	—	—	—	—	—	—
55. Oil storage tanks .....	1,228	48	1,276	160	37	197	131	52	183
56. Gas storage tanks .....	44	—	44	29	—	29	26	—	26
57. Oil pipe lines .....	—	—	—	1	—	1	2	—	2
58. Gas pipe lines .....	—	—	—	—	—	—	—	—	—
59. Oil wells .....	122	—	122	—	—	—	—	—	—
60. Gas wells .....	196	7	203	—	—	—	—	—	—
61. Oil refinery — processing units .....	3,378	562	3,940	4,000	—	4,000	—	—	—
62. Natural gas cleaning plants .....	—	—	—	—	—	—	—	—	—
Other engineering construction .....	8,869	2,091	10,960	3,973	1,979	5,952	4,586	2,048	6,634
63. Bridges, trestles, culverts, overpasses, viaducts .....	7,576	1,655	9,231	3,245	1,508	4,753	3,526	1,610	5,136
64. Tunnels and subways .....	25	8	33	13	41	54	13	9	22
65. Incinerators .....	—	17	17	—	25	25	—	13	13
66. Park systems, landscaping, sodding, etc. ....	239	185	424	71	154	225	98	171	269
67. Swimming pools, tennis courts, outdoor recreation facilities .....	199	13	212	193	12	205	274	13	287
68. Mine shafts and other below surface workings .....	230	—	230	138	43	181	312	6	318
69. Fences, snowsheds, signs, guard rails .....	415	174	589	247	162	409	271	190	461
70. Other engineering construction .....	185	39	224	66	34	100	92	36	128

TABLE 22. Quebec

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
<b>Total value of construction .....</b>	<b>1,326,860</b>	<b>327,301</b>	<b>1,654,161</b>	<b>1,351,034</b>	<b>339,870</b>	<b>1,690,904</b>	<b>1,465,069</b>	<b>356,118</b>	<b>1,821,187</b>
<b>Total building construction .....</b>	<b>787,894</b>	<b>212,644</b>	<b>1,000,538</b>	<b>871,824</b>	<b>222,962</b>	<b>1,094,786</b>	<b>930,160</b>	<b>232,270</b>	<b>1,162,430</b>
<b>Residential .....</b>	<b>346,500</b>	<b>108,800</b>	<b>455,300</b>	<b>385,000</b>	<b>126,800</b>	<b>511,800</b>	<b>401,700</b>	<b>134,400</b>	<b>536,100</b>
<b>Industrial .....</b>	<b>82,557</b>	<b>33,126</b>	<b>115,683</b>	<b>69,997</b>	<b>31,334</b>	<b>101,331</b>	<b>99,710</b>	<b>31,500</b>	<b>131,210</b>
2. Factories, plants, workshops, food canneries .....	61,535	26,861	88,396	58,109	24,760	82,869	85,073	25,281	110,354
3. Mine and mine mill buildings .....	13,418	2,364	15,782	8,902	2,903	11,805	12,333	2,361	14,694
4. Railway stations, offices, roadway buildings .....	2,799	2,021	4,820	1,732	1,784	3,516	1,388	1,971	3,359
5. Railway shops, engine houses, water and fuel stations .....	4,805	1,880	6,685	1,254	1,887	3,141	916	1,887	2,803
<b>Commercial .....</b>	<b>178,665</b>	<b>29,736</b>	<b>208,401</b>	<b>207,267</b>	<b>26,709</b>	<b>233,976</b>	<b>206,117</b>	<b>27,399</b>	<b>233,516</b>
6. Warehouses, storehouses, refrigerated storage, etc. ....	18,967	3,102	22,069	15,833	3,398	19,231	11,661	3,381	15,042
7. Grain elevators .....	3,886	1,333	5,219	3,840	804	4,644	12,376	1,226	13,602
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	8,560	2,225	10,785	6,559	2,442	9,001	11,430	2,397	13,827
9. Office buildings .....	91,981	12,374	104,355	130,852	10,013	140,865	112,397	10,921	123,318
10. Stores, retail and wholesale .....	40,848	6,999	47,847	23,962	3,403	27,365	40,300	5,714	46,014
11. Garages and service stations .....	8,338	2,824	11,162	18,113	5,821	23,934	7,517	3,002	10,519
12. Theatres, arenas, amusement and recreational buildings .....	6,050	674	6,724	7,862	556	8,418	10,267	461	10,728
13. Laundries and dry cleaning establishments .....	35	205	240	246	272	518	169	297	466
<b>Institutional .....</b>	<b>127,392</b>	<b>21,434</b>	<b>148,826</b>	<b>153,963</b>	<b>18,897</b>	<b>172,660</b>	<b>158,185</b>	<b>19,161</b>	<b>177,346</b>
14. Schools and other educational buildings .....	69,771	7,990	77,761	85,048	8,127	93,175	90,383	9,267	99,650
15. Churches and other religious buildings .....	18,969	3,651	22,620	17,592	3,751	21,343	16,136	2,794	18,930
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	35,989	5,873	41,862	41,913	5,727	47,640	39,445	6,375	45,820
17. Other institutional buildings .....	2,663	3,920	6,583	9,410	1,092	10,502	12,221	725	12,946
<b>Other building construction .....</b>	<b>52,780</b>	<b>19,548</b>	<b>72,328</b>	<b>55,597</b>	<b>19,422</b>	<b>75,019</b>	<b>64,448</b>	<b>19,810</b>	<b>84,258</b>
18. Farm buildings (excluding dwellings) .....	19,406	13,755	33,161	20,693	14,387	35,080	20,995	14,586	35,581
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	8,897	530	9,427	9,626	438	10,064	9,025	462	9,487
20. Aeroplane hangars .....	5,159	191	5,350	321	168	489	836	183	1,019
21. Passenger terminals, bus, boat or air .....	12,986	265	13,251	17,392	133	17,525	19,386	154	19,540
22. Armouries, barracks, drill halls, etc. ....	432	2,165	2,597	531	2,175	2,706	581	2,359	2,940
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	3,443	1,463	4,906	3,629	1,178	4,807	10,011	1,154	11,165
24. Other building construction .....	2,457	1,179	3,636	3,405	943	4,348	3,614	912	4,526
<b>Total engineering construction .....</b>	<b>538,968</b>	<b>114,657</b>	<b>653,623</b>	<b>479,210</b>	<b>116,908</b>	<b>596,118</b>	<b>534,909</b>	<b>123,848</b>	<b>658,757</b>
<b>Marine construction .....</b>	<b>43,068</b>	<b>6,029</b>	<b>49,097</b>	<b>41,687</b>	<b>5,074</b>	<b>46,761</b>	<b>19,121</b>	<b>5,304</b>	<b>24,425</b>
25. Docks, wharves, piers, breakwaters .....	20,745	3,359	24,104	28,681	3,139	31,820	11,074	3,195	14,269
26. Retaining walls, embankments, ripraping .....	596	203	799	769	216	985	783	221	1,004
27. Canals and waterways .....	4,390	403	4,793	1,067	343	1,410	168	401	569
28. Dredging and pile driving .....	17,162	832	17,994	10,939	841	11,780	7,010	928	7,938
29. Dyke construction .....	2	2	4	2	—	2	—	—	—
30. Logging booms .....	137	358	495	163	285	448	53	449	502
31. Other marine construction .....	36	872	908	66	250	316	33	110	143

TABLE 22. Quebec — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	128,478	35,325	163,803	136,067	36,745	172,812	164,414	36,814	201,228
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	85,966	24,455	110,421	101,231	28,298	129,529	127,056	28,510	155,566
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	27,093	6,330	33,423	18,498	5,244	23,742	19,502	4,855	24,357
34. Dirt, clay or other streets, roads, parking lots, etc. ....	2,821	1,939	4,760	1,610	1,225	2,835	1,932	1,502	3,434
35. Grading, scraping, oiling, filling .....	2,887	385	3,272	2,516	300	2,816	2,522	277	2,799
36. Sidewalks, paths .....	2,572	1,963	4,535	2,608	1,410	4,018	2,860	1,397	4,257
37. Aerodromes, landing fields, runways, tarmac .....	7,139	253	7,392	9,604	268	9,872	10,542	273	10,815
Waterworks and sewage systems .....	43,190	12,407	55,597	43,400	10,890	54,290	40,217	14,474	54,691
38. Tile drains, drainage ditches, storm sewers .....	5,449	3,764	9,213	5,049	2,631	7,680	5,411	2,603	8,014
39. Water mains, hydrants and services .....	13,990	4,413	18,403	16,293	4,694	20,987	13,418	5,331	18,749
40. Sewage systems and connections .....	18,243	2,304	20,547	18,007	1,652	19,659	19,086	1,627	20,713
41. Pumping stations, water .....	4,685	1,853	6,538	3,750	1,895	5,645	1,613	1,573	3,186
42. Water storage tanks .....	823	73	896	301	18	319	689	3,340	4,029
Dams and irrigation .....	35,511	2,412	37,923	29,513	2,020	31,533	37,041	1,971	39,012
43. Dams and reservoirs .....	34,413	822	35,235	28,402	620	29,022	35,931	557	36,488
44. Irrigation and land reclamation projects .....	1,098	1,590	2,688	1,111	1,400	2,511	1,110	1,414	2,524
Electric power construction .....	93,928	10,455	104,383	93,133	11,968	105,101	115,236	11,806	126,842
45. Electric power generating plants, including water conveying and controlling structures .....	38,739	4,368	44,107	35,717	2,380	38,097	53,950	2,202	56,152
46. Electric transformer stations .....	19,759	2,677	22,436	19,949	3,472	23,421	26,041	3,153	29,194
47. Power transmission and distribution lines, trolley wires .....	33,238	3,163	36,401	36,200	5,635	41,835	34,654	5,957	40,611
48. Street lighting .....	1,192	247	1,439	1,267	481	1,748	591	294	885
Railway, telephone and telegraph .....	100,183	29,186	129,369	55,797	30,361	86,158	56,714	33,755	90,469
49. Railway tracks and roadbed .....	57,987	17,408	75,395	20,486	18,661	39,147	15,842	21,508	37,350
50. Signals and interlockers .....	1,133	1,523	2,656	698	1,386	2,082	617	1,571	2,168
51. Telegraph and telephone lines, underground and marine cables .....	41,063	10,255	51,318	34,615	10,314	44,929	40,255	10,676	50,931
Gas and oil facilities .....	26,642	8,805	35,447	11,779	10,228	22,007	17,548	10,198	27,746
52. Gas mains and services .....	4,096	1,033	5,129	2,467	1,018	3,485	2,777	1,109	3,886
53. Pumping stations, oil .....	61	52	113	58	38	96	82	30	112
54. Pumping stations, gas .....	198	—	198	—	—	—	—	—	—
55. Oil storage tanks .....	6,775	806	7,581	2,813	527	3,340	2,736	487	3,223
56. Gas storage tanks .....	809	24	633	1,007	72	1,079	1,367	31	1,398
57. Oil pipe lines .....	1,019	112	1,131	133	316	449	798	342	1,140
58. Gas pipe lines .....	141	25	166	30	19	49	182	9	171
59. Oil wells .....	—	—	—	35	—	35	107	—	107
60. Gas wells .....	—	—	—	35	—	35	107	—	107
61. Oil refinery — processing units .....	13,743	6,753	20,496	5,201	8,220	13,421	9,412	8,172	17,584
62. Natural gas cleaning plants .....	—	—	—	—	18	18	—	18	18
Other engineering construction .....	67,966	10,036	78,004	67,834	9,628	77,456	84,618	9,726	94,344
63. Bridges, trestles, culverts, overpasses, viaducts .....	49,288	4,814	54,102	45,657	5,147	50,804	46,817	5,039	51,856
64. Tunnels and subways .....	1,576	39	1,615	1,553	102	1,655	10,121	268	10,389
65. Incinerators .....	429	14	443	411	10	421	610	11	621
66. Park systems, landscaping, sodding, etc. ....	1,985	1,177	3,162	2,079	760	2,839	2,507	766	3,273
67. Swimming pools, tennis courts, outdoor recreational facilities .....	1,465	458	1,923	1,461	321	1,782	1,603	320	1,923
68. Mine shafts and other below surface workings .....	5,240	498	5,738	6,242	331	6,573	10,344	339	10,683
69. Fences, snowsheds, signs, guard rails .....	1,718	1,533	3,251	1,756	1,434	3,190	1,807	1,469	3,276
70. Other engineering construction .....	6,265	1,505	7,770	8,675	1,517	10,192	10,809	1,514	12,323

TABLE 23. Ontario

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Total value of construction .....	1,827,436	505,464	2,332,900	1,832,129	507,794	2,339,923	2,034,676	530,682	2,565,358
Total building construction .....	1,200,212	316,504	1,516,716	1,181,556	317,879	1,499,435	1,331,907	327,427	1,659,334
Residential .....	551,000	172,700	723,700	543,300	179,600	722,900	568,700	190,300	759,000
Industrial .....	143,269	54,973	198,242	118,651	51,908	170,559	146,880	53,763	200,643
2. Factories, plants, workshops, food canneries .....	131,913	44,600	176,513	106,934	41,642	148,576	134,698	42,660	177,358
3. Mine and mine mill buildings .....	5,716	4,502	10,218	6,880	4,360	11,240	7,489	4,291	11,780
4. Railway stations, offices, roadway buildings .....	3,636	3,717	7,353	3,325	3,896	7,221	3,363	4,472	7,835
5. Railway shops, engine houses, water and fuel stations .....	2,004	2,154	4,158	1,512	2,010	3,522	1,330	2,340	3,670
Commercial .....	230,101	42,716	272,819	244,656	39,041	283,697	254,950	36,315	291,265
6. Warehouses, storehouses, refrigerated storage, etc. ....	20,572	4,553	25,125	18,986	3,968	22,954	20,021	3,840	23,681
7. Grain elevators .....	1,235	1,444	2,679	5,888	1,014	6,682	3,619	416	4,035
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	9,442	3,725	13,167	6,514	3,479	9,993	12,434	3,347	15,781
9. Office buildings .....	104,925	16,313	121,238	110,295	14,226	124,521	112,521	13,581	126,102
10. Stores, retail and wholesale .....	62,368	10,781	73,149	73,696	10,054	83,750	79,272	9,485	88,757
11. Garages and service stations .....	19,255	4,351	23,606	14,118	4,901	19,019	15,657	4,545	20,202
12. Theatres, arenas, amusement and recreational buildings .....	12,020	1,295	13,315	14,388	1,173	15,561	11,362	1,079	12,441
13. Laundries and dry cleaning establishments .....	284	256	540	991	226	1,217	64	222	286
Institutional .....	200,258	17,504	217,762	207,180	17,894	225,174	290,264	17,476	307,740
14. Schools and other educational buildings .....	107,594	7,532	115,126	102,242	7,361	109,603	173,626	7,087	160,693
15. Churches and other religious buildings .....	18,196	3,182	21,378	16,295	2,860	18,955	24,304	2,130	26,434
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	58,960	4,169	61,129	69,518	6,303	75,619	79,282	6,671	85,933
17. Other institutional buildings .....	17,508	2,621	20,129	19,127	1,670	20,797	13,072	1,608	14,680
Other building construction .....	75,384	28,609	104,193	67,769	29,336	97,105	71,113	29,573	100,686
18. Farm buildings (excluding dwellings) .....	28,704	20,272	48,976	28,866	20,751	49,619	28,907	20,937	49,844
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	20,313	517	20,830	16,641	591	17,232	17,602	591	18,193
20. Aeroplane hangars .....	3,316	820	4,136	3,235	799	4,034	4,272	817	5,089
21. Passenger terminals, bus, boat or air .....	6,760	128	6,888	6,228	79	6,307	6,629	59	6,888
22. Armouries, barracks, drill halls, etc. ....	3,466	5,157	8,625	3,215	5,278	8,493	3,446	5,629	9,075
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	5,713	630	6,343	1,890	881	2,571	4,603	611	5,214
24. Other building construction .....	7,310	1,085	8,395	7,692	1,157	8,849	5,654	929	6,583
Total engineering construction .....	627,224	188,960	816,184	650,573	189,915	840,488	702,769	203,255	906,024
Marine construction .....	21,112	4,314	25,426	15,539	3,234	18,773	13,245	3,277	16,522
25. Docks, wharves, piers, breakwaters .....	10,532	1,027	11,559	8,221	758	8,979	9,943	940	10,883
26. Retaining walls, embankments, ripraping .....	3,089	63	3,152	42	58	100	264	56	320
27. Canals and waterways .....	705	980	1,685	1,763	1,084	2,847	1,893	1,312	3,205
28. Dredging and pile driving .....	6,631	1,605	8,236	3,858	1,079	4,735	1,038	719	1,757
29. Dyke construction .....	11	18	29	145	10	155	10	11	21
30. Logging booms .....	41	279	320	2	218	220	16	212	228
31. Other marine construction .....	103	342	445	1,710	27	1,737	81	27	108

TABLE 23. Ontario — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	186,711	65,218	251,930	182,308	64,833	247,141	189,043	67,009	256,052
32. Hard surfaced or paved streets, highways, parking lots, etc. ....	143,728	33,980	177,706	140,168	34,661	174,829	144,075	35,739	179,814
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	29,301	24,507	53,808	29,764	24,418	54,182	30,887	25,337	56,224
34. Dirt, clay or other streets, roads, parking lots, etc. ....	1,389	3,455	4,844	1,844	2,591	4,435	1,857	2,610	4,467
35. Grading, scraping, oiling, filling .....	587	286	873	521	186	707	430	188	618
36. Sidewalks, paths .....	4,767	1,892	6,659	4,729	1,864	6,593	4,910	1,948	6,858
37. Aerodromes, landing fields, runways, tarmac .....	6,941	1,099	8,040	5,282	1,113	6,395	6,884	1,187	8,071
Waterworks and sewage systems .....	86,423	13,098	99,521	78,899	13,072	91,971	124,677	14,636	139,313
38. Tile drains, drainage ditches, storm sewers .....	3,930	2,975	6,905	2,961	3,082	6,043	2,750	2,977	5,727
39. Water mains, hydrants and services .....	22,073	4,694	26,967	16,469	4,737	21,206	26,797	6,352	33,149
40. Sewage systems and connections .....	53,335	4,099	57,434	51,895	4,068	55,963	87,942	3,855	91,797
41. Pumping stations, water .....	6,324	1,052	7,376	6,560	1,084	7,644	5,434	1,358	6,792
42. Water storage tanks .....	761	78	839	1,014	101	1,115	1,754	94	1,848
Dams and irrigation .....	3,557	1,432	4,989	2,934	1,527	4,461	4,052	1,577	5,629
43. Dams and reservoirs .....	1,989	292	2,281	1,343	348	1,689	2,447	393	2,840
44. Irrigation and land reclamation projects .....	1,568	1,140	2,708	1,591	1,181	2,772	1,605	1,184	2,789
Electric power construction .....	93,447	24,975	118,422	127,907	27,359	155,266	105,645	28,962	134,607
45. Electric power generating plants, including water conveying and controlling structures .....	43,690	4,598	48,288	72,353	4,764	77,117	46,865	5,039	51,704
46. Electric transformer stations .....	7,853	3,761	11,614	11,875	3,830	15,705	12,132	4,158	16,290
47. Power transmission and distribution lines, trolley wires .....	38,213	14,078	52,291	39,589	15,945	55,534	43,307	16,831	60,138
48. Street lighting .....	3,691	2,538	6,229	4,090	2,820	6,910	3,541	2,934	6,475
Railway, telephone and telegraph .....	91,184	51,859	143,053	77,508	51,180	128,688	83,874	57,460	141,434
49. Railway tracks and roadbed .....	39,858	33,045	72,901	32,752	34,997	67,749	33,945	40,134	74,079
50. Signals and interlockers .....	2,503	2,552	5,055	1,718	2,478	4,196	1,695	2,769	4,464
51. Telegraph and telephone lines, underground and marine cables .....	48,835	16,262	65,097	43,036	13,705	56,743	48,334	14,557	62,891
Gas and oil facilities .....	54,100	15,004	69,104	58,457	16,373	74,830	81,182	17,308	88,500
52. Gas mains and services .....	25,917	2,812	28,729	30,073	2,911	32,984	28,810	2,972	31,782
53. Pumping stations, oil .....	224	164	388	322	162	484	953	156	1,109
54. Pumping stations, gas .....	8,591	1	8,592	1,057	—	1,057	14,239	—	14,239
55. Oil storage tanks .....	2,627	640	3,267	2,765	617	3,382	4,080	512	4,582
56. Gas storage tanks .....	253	10	263	404	—	404	361	1	362
57. Oil pipe lines .....	478	333	809	4,256	444	4,700	95	635	730
58. Gas pipe lines .....	3,390	419	3,809	2,931	293	3,224	866	218	1,084
59. Oil wells .....	646	65	711	649	41	690	809	53	862
60. Gas wells .....	1,043	149	1,192	759	228	985	561	234	795
61. Oil refinery — processing units .....	10,850	10,411	21,261	15,241	11,679	28,920	30,419	12,527	42,945
62. Natural gas cleaning plants .....	83	—	83	—	—	—	—	—	—
Other engineering construction .....	90,680	13,059	103,739	107,021	12,337	119,358	100,941	13,026	113,967
63. Bridges, trestles, culverts, overpasses, viaducts .....	54,486	5,984	60,470	69,549	6,207	75,756	57,652	6,447	64,099
64. Tunnels and subways .....	19,231	65	19,298	19,792	377	20,169	23,921	370	24,291
65. Incinerators .....	79	1,440	1,519	117	278	395	362	282	644
66. Park systems, landscaping, sodding, etc. ....	723	848	1,571	1,637	900	2,537	1,628	891	2,519
67. Swimming pools, tennis courts, outdoor recreation facilities .....	192	402	594	1,346	498	1,844	2,466	581	3,047
68. Mine shafts and other below surface workings .....	8,378	885	9,263	9,159	580	9,739	9,814	651	10,465
69. Fences, snowsheds, signs, guard rails .....	3,188	2,139	5,327	2,475	2,031	4,506	2,517	2,148	4,665
70. Other engineering construction .....	4,403	1,296	5,699	2,946	1,468	4,412	2,581	1,656	4,237

TABLE 24. Manitoba

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
<b>Total value of construction .....</b>	<b>307,669</b>	<b>88,929</b>	<b>396,598</b>	<b>293,557</b>	<b>88,725</b>	<b>382,282</b>	<b>314,763</b>	<b>91,211</b>	<b>405,974</b>
<b>Total building construction .....</b>	<b>179,020</b>	<b>51,824</b>	<b>230,844</b>	<b>160,989</b>	<b>49,756</b>	<b>210,745</b>	<b>156,131</b>	<b>51,578</b>	<b>207,709</b>
<b>Residential .....</b>	<b>73,300</b>	<b>22,800</b>	<b>96,100</b>	<b>67,100</b>	<b>22,300</b>	<b>89,400</b>	<b>70,500</b>	<b>23,600</b>	<b>94,100</b>
<b>Industrial .....</b>	<b>23,945</b>	<b>6,340</b>	<b>30,285</b>	<b>11,313</b>	<b>5,113</b>	<b>16,426</b>	<b>8,777</b>	<b>5,477</b>	<b>14,254</b>
2. Factories, plants, workshops, food canneries .....	14,047	3,708	17,755	7,127	2,404	9,531	4,586	2,678	7,264
3. Mine and mine mill buildings .....	8,055	130	8,185	1,610	226	1,836	2,356	244	2,600
4. Railway stations, offices, roadway buildings .....	1,237	1,340	2,577	1,319	1,332	2,651	1,009	1,442	2,451
5. Railway shops, engine houses, water and fuel stations .....	606	1,162	1,768	1,257	1,151	2,408	826	1,113	1,939
<b>Commercial .....</b>	<b>37,044</b>	<b>6,068</b>	<b>43,112</b>	<b>28,097</b>	<b>5,603</b>	<b>33,700</b>	<b>30,358</b>	<b>5,306</b>	<b>35,664</b>
6. Warehouses, storehouses, refrigerated storage, etc. ....	8,439	737	9,176	4,632	791	5,423	2,541	619	3,360
7. Grain elevators .....	1,161	713	1,874	1,201	656	1,857	559	530	1,089
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	2,774	742	3,516	2,349	554	2,903	2,323	499	2,822
9. Office buildings .....	11,006	1,214	12,220	9,705	1,172	10,877	14,540	1,181	15,721
10. Stores, retail and wholesale .....	8,924	1,807	10,731	6,133	1,633	7,766	6,547	1,452	7,999
11. Garages and service stations .....	2,120	400	2,520	1,225	453	1,678	1,094	489	1,583
12. Theatres, arenas, amusement and recreational buildings .....	2,591	365	2,956	2,804	261	3,065	2,717	268	2,985
13. Laundries and dry cleaning establishments .....	29	90	119	48	83	131	37	68	105
<b>Institutional .....</b>	<b>33,548</b>	<b>7,906</b>	<b>41,454</b>	<b>41,991</b>	<b>8,012</b>	<b>50,003</b>	<b>32,948</b>	<b>8,130</b>	<b>41,258</b>
14. Schools and other educational buildings .....	24,323	6,753	31,076	30,147	7,059	37,206	20,756	7,183	27,939
15. Churches and other religious buildings .....	2,226	113	2,339	3,766	68	3,834	1,655	72	1,727
16. Hospitals, sanatoria, clinics, first-aid stations, etc. ....	5,818	792	6,610	6,170	697	6,867	5,384	944	6,328
17. Other institutional buildings .....	1,181	248	1,429	1,908	188	2,096	5,153	111	5,264
<b>Other building construction .....</b>	<b>11,183</b>	<b>8,710</b>	<b>19,893</b>	<b>12,488</b>	<b>8,728</b>	<b>21,216</b>	<b>13,548</b>	<b>8,885</b>	<b>22,433</b>
18. Farm buildings (excluding dwellings) .....	7,992	5,823	13,815	7,831	5,712	13,543	7,820	5,716	13,536
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	1,743	202	1,945	2,540	236	2,776	3,172	249	3,421
20. Aeroplane hangars .....	150	238	388	192	239	431	204	253	457
21. Passenger terminals, bus, boat or air .....	303	62	365	442	65	507	452	58	510
22. Armouries, barracks, drill halls, etc. ....	200	1,422	1,622	292	1,442	1,734	295	1,541	1,836
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	175	98	273	283	114	397	754	102	856
24. Other building construction .....	620	865	1,485	908	920	1,828	851	966	1,817
<b>Total engineering construction .....</b>	<b>128,649</b>	<b>37,105</b>	<b>165,754</b>	<b>132,568</b>	<b>38,969</b>	<b>171,537</b>	<b>158,632</b>	<b>39,633</b>	<b>198,265</b>
<b>Marine construction .....</b>	<b>787</b>	<b>474</b>	<b>1,261</b>	<b>3,067</b>	<b>512</b>	<b>3,579</b>	<b>3,991</b>	<b>554</b>	<b>4,545</b>
25. Docks, wharves, piers, breakwaters .....	502	219	721	1,156	213	1,369	1,221	232	1,453
26. Retaining walls, embankments, ripraping .....	13	1	14	1,497	47	1,544	2,330	46	2,376
27. Canals and waterways .....	16	—	16	23	—	23	24	—	24
28. Dredging and pile driving .....	247	216	463	375	232	607	400	255	655
29. Dyke construction .....	—	—	—	—	—	—	—	—	—
30. Logging booms .....	—	—	—	1	20	21	1	21	22
31. Other marine construction .....	9	38	47	15	—	15	15	—	15

TABLE 24. Manitoba — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction.....	40,871	9,430	50,301	39,983	7,685	47,668	39,760	7,670	47,430
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	16,984	2,140	19,124	16,695	2,132	18,827	17,092	2,056	19,148
33. Gravel or stone streets, highways, roads, parking lots, etc....	8,952	4,043	12,995	7,739	3,177	10,916	7,207	3,273	10,480
34. Dirt, clay or other streets, roads, parking lots, etc.....	2,019	1,691	3,710	1,891	938	2,829	2,045	910	2,955
35. Grading, scraping, oiling, filling .....	10,737	1,169	11,906	10,662	1,062	11,724	10,525	1,061	11,586
36. Sidewalks, paths .....	452	302	754	477	291	768	342	279	621
37. Aerodromes, landing fields, runways, tarmac.....	1,727	85	1,812	2,519	85	2,604	2,549	91	2,640
Waterworks and sewage systems.....	7,139	1,733	8,872	9,608	2,902	12,510	15,742	2,927	18,689
38. Tile drains, drainage ditches, storm sewers .....	910	298	1,208	1,778	1,358	3,136	2,787	1,479	4,266
39. Water mains, hydrants and services.....	2,703	1,034	3,737	4,782	1,096	5,878	5,023	1,087	6,110
40. Sewage systems and connections .....	2,666	374	3,040	2,669	407	3,078	3,364	330	3,714
41. Pumping stations, water .....	851	26	877	166	41	207	1,136	30	1,168
42. Water storage tanks .....	9	1	10	213	—	213	3,410	1	3,411
Dams and irrigation.....	1,662	601	2,263	1,382	630	2,012	1,390	640	2,030
43. Dams and reservoirs.....	1,004	144	1,148	637	179	816	641	180	821
44. Irrigation and land reclamation projects .....	658	457	1,115	745	451	1,196	749	460	1,209
Electric power construction.....	21,071	1,766	22,837	36,173	2,831	38,804	49,298	2,671	51,968
45. Electric power generating plants, including water conveying and controlling structures .....	12,227	637	12,864	20,165	1,606	21,771	21,140	1,580	22,720
46. Electric transformer stations .....	954	208	1,162	3,475	186	3,661	6,114	183	6,297
47. Power transmission and distribution lines, trolley wires .....	6,803	871	7,674	10,855	523	11,378	20,334	522	20,856
48. Street lighting .....	1,087	50	1,137	1,678	316	1,994	1,710	386	2,096
Railway, telephone and telegraph.....	21,003	16,161	37,164	17,894	16,926	34,920	15,880	17,757	33,637
49. Railway tracks and roadbed .....	13,394	12,026	25,420	10,681	12,325	23,006	10,110	13,073	23,183
50. Signals and interlockers .....	567	569	1,136	525	839	1,364	471	875	1,346
51. Telegraph and telephone lines, underground and marine cables .....	7,042	3,566	10,608	6,788	3,762	10,550	5,299	3,809	9,108
Gas and oil facilities .....	22,484	1,603	24,087	12,185	1,409	13,594	16,210	1,565	17,775
52. Gas mains and services .....	4,942	511	5,453	4,981	—	4,981	4,886	—	4,886
53. Pumping stations, oil.....	1,582	231	1,813	—	209	209	499	212	711
54. Pumping stations, gas .....	5,769	—	5,769	2,522	—	2,522	4,237	—	4,237
55. Oil storage tanks .....	423	136	559	207	73	280	174	71	245
56. Gas storage tanks .....	2,187	—	2,187	3,916	—	3,916	3,057	—	3,057
57. Oil pipe lines .....	62	88	130	217	80	297	1,559	86	1,645
58. Gas pipe lines .....	6,639	—	6,639	106	—	106	253	—	253
59. Oil wells .....	668	223	891	122	230	352	595	246	841
60. Gas wells .....	—	—	—	—	—	—	—	—	—
61. Oil refinery — processing units .....	212	434	646	114	817	931	950	950	1,900
62. Natural gas cleaning plants .....	—	—	—	—	—	—	—	—	—
Other engineering construction .....	13,832	5,337	18,969	12,178	8,274	16,450	16,361	5,849	22,210
63. Bridges, trestles, culverts, overpasses, viaducts .....	7,677	2,128	9,805	6,152	1,975	8,127	9,892	2,046	11,938
64. Tunnels and subways .....	—	—	—	81	—	61	65	—	65
65. Incinerators .....	1,086	—	1,086	422	26	448	9	55	64
66. Park systems, landscaping, sodding, etc. ....	170	181	351	145	136	281	170	147	317
67. Swimming pools, tennis courts, outdoor recreation facilities ..	323	100	423	558	212	770	1,007	288	1,295
68. Mine shafts and other below surface workings .....	3,044	718	3,762	3,540	659	4,199	3,909	617	4,526
69. Fences, snowsheds, signs, guard rails .....	1,080	741	1,821	978	634	1,612	952	664	1,616
70. Other engineering construction .....	252	1,469	1,721	320	2,632	2,952	357	2,032	2,389

TABLE 25. Saskatchewan

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
<b>Total value of construction</b>	<b>283,047</b>	<b>85,888</b>	<b>378,935</b>	<b>310,702</b>	<b>87,762</b>	<b>398,464</b>	<b>310,707</b>	<b>91,526</b>	<b>402,233</b>
<b>Total building construction</b>	<b>140,941</b>	<b>47,383</b>	<b>188,324</b>	<b>144,265</b>	<b>47,411</b>	<b>191,676</b>	<b>157,224</b>	<b>48,715</b>	<b>205,939</b>
<b>Residential</b>	<b>63,500</b>	<b>20,100</b>	<b>83,600</b>	<b>66,700</b>	<b>21,800</b>	<b>88,500</b>	<b>69,000</b>	<b>23,100</b>	<b>92,100</b>
<b>Industrial</b>	<b>6,317</b>	<b>2,994</b>	<b>9,311</b>	<b>8,784</b>	<b>2,868</b>	<b>11,652</b>	<b>9,599</b>	<b>3,155</b>	<b>12,754</b>
2. Factories, plants, workshops, food canneries	3,575	1,387	4,962	5,472	1,093	6,565	4,925	1,214	8,139
3. Mine and mine mill buildings	1,208	149	1,357	1,890	123	2,013	3,326	123	3,449
4. Railway stations, offices, roadway buildings	983	1,009	1,992	976	1,174	2,150	963	1,309	2,272
5. Railway shops, engine houses, water and fuel stations	551	449	1,000	446	478	924	385	509	894
<b>Commercial</b>	<b>26,664</b>	<b>7,215</b>	<b>33,879</b>	<b>25,614</b>	<b>5,961</b>	<b>31,575</b>	<b>21,741</b>	<b>5,616</b>	<b>27,357</b>
6. Warehouses, storehouses, refrigerated storage, etc.	2,168	478	2,646	3,384	540	3,924	1,102	547	1,649
7. Grain elevators	4,821	2,466	7,287	4,951	2,227	7,178	2,188	1,669	3,857
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	2,684	569	3,253	1,977	388	2,365	1,171	618	1,789
9. Office buildings	7,105	1,731	8,836	8,196	1,154	9,350	10,436	1,310	11,746
10. Stores, retail and wholesale	6,388	1,355	7,743	4,894	1,047	5,941	4,251	975	5,226
11. Garages and service stations	2,548	386	2,936	1,211	311	1,522	1,243	310	1,553
12. Theatres, arenas, amusement and recreational buildings	905	199	1,104	992	249	1,241	1,341	160	1,501
13. Laundries and dry cleaning establishments	45	29	74	9	45	54	9	27	36
<b>Institutional</b>	<b>27,025</b>	<b>4,933</b>	<b>31,958</b>	<b>25,818</b>	<b>4,852</b>	<b>30,670</b>	<b>37,742</b>	<b>4,907</b>	<b>42,649</b>
14. Schools and other educational buildings	16,513	2,893	19,406	17,562	3,420	20,982	18,033	3,455	21,488
15. Churches and other religious buildings	3,120	599	3,719	2,096	184	2,280	3,783	143	3,926
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	5,773	1,098	6,871	4,777	1,061	5,838	13,636	996	14,632
17. Other institutional buildings	1,619	343	1,962	1,383	187	1,570	2,290	313	2,603
<b>Other building construction</b>	<b>17,435</b>	<b>12,141</b>	<b>29,576</b>	<b>17,349</b>	<b>11,930</b>	<b>29,279</b>	<b>19,142</b>	<b>11,937</b>	<b>31,079</b>
18. Farm buildings (excluding dwellings)	18,939	11,539	27,478	15,548	11,246	26,794	15,570	11,245	26,815
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	811	86	697	698	77	773	2,206	84	2,290
20. Aeroplane hangars	10	77	87	10	90	100	12	86	98
21. Passenger terminals, bus, boat or air	263	—	263	272	10	282	307	13	320
22. Armouries, barracks, drill halls, etc.	72	252	324	75	262	337	84	269	353
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	67	119	186	178	93	271	138	75	213
24. Other building construction	473	68	541	570	152	722	825	165	990
<b>Total engineering construction</b>	<b>152,106</b>	<b>38,505</b>	<b>190,611</b>	<b>166,437</b>	<b>40,351</b>	<b>206,788</b>	<b>153,483</b>	<b>42,811</b>	<b>196,294</b>
<b>Marine construction</b>	<b>85</b>	<b>42</b>	<b>127</b>	<b>185</b>	<b>79</b>	<b>264</b>	<b>223</b>	<b>71</b>	<b>294</b>
25. Docks, wharves, piers, breakwaters	58	41	99	58	78	136	147	70	217
26. Retaining walls, embankments, ripraping	7	—	7	7	—	7	8	—	8
27. Canals and waterways	2	—	2	2	—	2	2	—	2
28. Dredging and pile driving	—	—	—	—	—	—	—	—	—
29. Dyke construction	—	—	—	99	—	99	45	—	45
30. Logging booms	—	—	—	—	—	—	—	—	—
31. Other marine construction	18	1	19	19	1	20	21	1	22

TABLE 25. Saskatchewan — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	33,055	11,734	44,789	29,633	10,481	40,114	32,086	11,637	43,923
32. Hard surfaced or paved streets, highways, parking lots, etc. ..	11,524	2,373	13,897	12,725	2,605	15,330	14,344	3,579	17,923
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	13,475	6,338	19,811	8,482	5,416	13,898	8,587	5,608	14,195
34. Dirt, clay or other streets, roads, parking lots, etc. ....	5,656	2,748	8,404	6,187	2,194	8,381	6,704	2,391	9,095
35. Grading, scraping, oiling, filling .....	23	34	57	28	29	57	27	30	57
36. Sidewalks, paths .....	1,983	203	2,186	1,803	192	1,995	1,806	177	1,983
37. Aerodromes, landing fields, runways, tarmac .....	394	40	434	408	45	453	618	52	670
Waterworks and sewage systems .....	11,893	1,638	13,531	8,812	1,084	9,898	6,136	1,114	7,250
38. Tile drains, drainage ditches, storm sewers .....	363	92	455	157	126	283	355	101	456
39. Water mains, hydrants and services .....	2,616	731	3,347	1,275	357	1,632	1,077	399	1,476
40. Sewage systems and connections .....	7,271	507	7,778	7,107	508	7,615	4,374	513	4,887
41. Pumping stations, water .....	1,106	264	1,370	273	93	366	330	100	430
42. Water storage tanks .....	537	44	581	—	—	—	—	1	1
Dams and irrigation .....	21,646	2,348	23,992	53,854	2,435	56,289	40,150	2,439	42,589
43. Dams and reservoirs .....	20,757	1,560	22,317	51,192	1,646	52,836	36,408	1,660	38,068
44. Irrigation and land reclamation projects .....	889	786	1,675	2,662	789	3,451	3,742	779	4,521
Electric power construction .....	16,638	2,205	18,843	17,515	1,947	19,462	23,404	2,011	25,415
45. Electric power generating plants, including water conveying and controlling structures .....	1,364	503	1,867	4,320	254	4,574	9,874	297	10,171
46. Electric transformer stations .....	2,357	200	2,557	560	34	594	873	37	910
47. Power transmission and distribution lines, trolley wires .....	12,418	1,250	13,868	12,352	1,299	13,651	12,330	1,321	13,651
48. Street lighting .....	499	252	751	283	360	643	327	356	683
Railway, telephone and telegraph .....	16,592	13,420	30,012	12,889	14,011	26,900	15,937	15,297	31,234
49. Railway tracks and roadbed .....	10,634	10,890	21,524	9,306	11,114	20,420	9,384	12,243	21,627
50. Signals and interlockers .....	1,209	434	1,643	505	762	1,267	467	815	1,282
51. Telegraph and telephone lines, underground and marine cables .....	4,749	2,096	6,845	3,078	2,135	5,213	6,086	2,239	8,325
Gas and oil facilities .....	38,379	3,593	41,972	34,619	4,055	38,674	28,063	3,828	31,911
52. Gas mains and services .....	4,031	276	4,307	3,347	419	3,766	3,870	422	4,292
53. Pumping stations, oil .....	627	266	893	518	264	782	572	268	840
54. Pumping stations, gas .....	12,467	—	12,467	7,010	—	7,010	4,736	—	4,736
55. Oil storage tanks .....	579	190	769	490	144	634	373	128	501
56. Gas storage tanks .....	107	—	107	76	—	76	40	—	40
57. Oil pipe lines .....	324	285	609	492	289	781	272	283	555
58. Gas pipe lines .....	3,725	19	3,744	4,639	17	4,656	2,019	19	2,038
59. Oil wells .....	12,343	1,131	13,474	16,136	1,400	17,536	13,937	1,395	15,332
60. Gas wells .....	1,510	153	1,663	779	128	907	172	124	296
61. Oil refinery — processing units .....	2,666	1,273	3,939	953	712	1,665	1,403	512	1,915
62. Natural gas cleaning plants .....	—	—	—	179	682	861	689	677	1,366
Other engineering construction .....	13,818	3,527	17,345	8,930	6,259	15,189	7,484	6,214	13,678
63. Bridges, trestles, culverts, overpasses, viaducts .....	4,677	1,071	5,748	3,440	1,245	4,685	2,748	1,464	4,212
64. Tunnels and subways .....	4	—	4	32	—	32	60	—	60
65. Incinerators .....	8	10	18	441	25	466	—	15	15
66. Park systems, landscaping, sodding, etc. ....	34	191	225	50	85	135	38	89	127
67. Swimming pools, tennis courts, outdoor recreation facilities ..	10	4	14	308	184	492	472	220	692
68. Mine shafts and other below surface workings .....	6,947	576	7,523	2,809	2,310	5,119	2,012	2,013	4,025
69. Fences, snowsheds, signs, guard rails .....	1,605	1,333	2,938	1,511	1,336	2,847	1,559	1,373	2,932
70. Other engineering construction .....	533	342	875	339	1,074	1,413	575	1,040	1,615

TABLE 28. Alberta

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
<b>Total value of construction</b>	<b>865,633</b>	<b>150,160</b>	<b>815,793</b>	<b>734,349</b>	<b>152,344</b>	<b>886,603</b>	<b>645,565</b>	<b>156,583</b>	<b>802,148</b>
<b>Total building construction</b>	<b>307,365</b>	<b>81,819</b>	<b>389,184</b>	<b>287,194</b>	<b>84,087</b>	<b>371,261</b>	<b>317,507</b>	<b>87,105</b>	<b>404,612</b>
<b>Residential</b>	<b>134,900</b>	<b>42,500</b>	<b>177,400</b>	<b>146,900</b>	<b>48,400</b>	<b>185,300</b>	<b>153,300</b>	<b>51,300</b>	<b>204,600</b>
<b>Industrial</b>	<b>19,127</b>	<b>6,241</b>	<b>25,368</b>	<b>9,788</b>	<b>4,912</b>	<b>14,700</b>	<b>13,584</b>	<b>4,863</b>	<b>18,447</b>
2. Factories, plants, workshops, food canneries	17,801	4,673	22,474	7,978	3,153	11,131	11,979	2,879	14,858
3. Mine and mine mill buildings	71	46	117	192	51	243	220	158	378
4. Railway stations, offices, roadway buildings	752	990	1,742	1,191	1,129	2,320	1,033	1,212	2,245
5. Railway shops, engine houses, water and fuel stations	503	532	1,035	427	579	1,008	352	614	966
<b>Commercial</b>	<b>51,727</b>	<b>13,453</b>	<b>65,180</b>	<b>46,436</b>	<b>11,025</b>	<b>57,461</b>	<b>45,039</b>	<b>10,710</b>	<b>55,758</b>
6. Warehouses, storehouses, refrigerated storage, etc.	4,360	1,167	5,527	4,803	1,206	6,009	6,034	1,124	7,158
7. Grain elevators	2,002	1,408	3,410	2,617	1,285	3,902	1,194	925	2,119
8. Hotels, clubs, restaurants, cafeterias, tourist cabins	3,209	1,717	4,926	2,844	1,224	4,068	2,071	1,102	3,173
9. Office buildings	19,936	5,442	25,378	23,980	4,320	28,300	22,458	4,873	27,331
10. Stores, retail and wholesale	14,256	1,852	16,108	6,920	1,862	8,782	5,848	1,652	7,500
11. Garages and service stations	5,998	767	6,765	2,555	683	3,238	2,414	640	3,054
12. Theatres, arenas, amusement and recreational buildings	1,901	1,038	2,939	2,606	369	2,975	4,791	333	5,124
13. Laundries and dry cleaning establishments	65	62	127	111	76	187	229	70	299
<b>Institutional</b>	<b>62,613</b>	<b>8,065</b>	<b>68,668</b>	<b>51,364</b>	<b>8,607</b>	<b>58,871</b>	<b>77,882</b>	<b>8,710</b>	<b>83,592</b>
14. Schools and other educational buildings	42,196	3,725	45,921	27,196	3,634	30,830	54,011	3,712	57,723
15. Churches and other religious buildings	2,850	166	3,016	2,684	87	2,771	2,206	94	2,300
16. Hospitals, sanatoria, clinics, first-aid stations, etc.	10,490	1,764	12,254	15,066	1,475	16,541	16,943	1,549	18,492
17. Other institutional buildings	7,077	400	7,477	6,416	411	6,829	4,722	355	5,077
<b>Other building construction</b>	<b>38,998</b>	<b>13,570</b>	<b>52,568</b>	<b>32,706</b>	<b>14,143</b>	<b>46,849</b>	<b>27,702</b>	<b>14,513</b>	<b>42,215</b>
18. Farm buildings (excluding dwellings)	17,498	11,876	29,174	16,792	12,073	28,865	17,165	12,368	29,533
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges	16,344	229	16,573	8,889	436	9,325	4,278	476	4,754
20. Aeroplane hangars	175	394	569	185	367	552	189	387	576
21. Passenger terminals, bus, boat or air	2,623	18	2,641	2,937	18	2,955	3,007	20	3,027
22. Armouries, barracks, drill halls, etc.	200	856	1,056	224	888	1,112	229	936	1,165
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps	1,003	233	1,238	1,338	218	1,556	621	210	831
24. Other building construction	1,155	164	1,319	2,341	143	2,484	2,213	116	2,329
<b>Total engineering construction</b>	<b>358,268</b>	<b>68,341</b>	<b>426,609</b>	<b>447,155</b>	<b>68,257</b>	<b>515,412</b>	<b>328,058</b>	<b>68,478</b>	<b>397,338</b>
<b>Marine construction</b>	<b>436</b>	<b>244</b>	<b>680</b>	<b>1,344</b>	<b>305</b>	<b>1,648</b>	<b>921</b>	<b>315</b>	<b>1,238</b>
25. Docks, wharves, piers, breakwaters	85	43	128	419	88	507	113	88	199
26. Retaining walls, embankments, ripraping	8	2	10	544	2	546	418	2	420
27. Canals and waterways	—	5	5	—	11	11	—	11	11
28. Dredging and pile driving	—	194	194	—	201	201	—	213	213
29. Dyke construction	2	—	2	—	—	—	—	—	—
30. Logging booms	—	—	—	—	3	3	—	3	3
31. Other marine construction	341	—	341	381	—	381	390	—	390

TABLE 26. Alberta — Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
Road, highway and aerodrome construction .....	77,471	29,451	106,922	75,108	27,846	102,954	82,888	27,277	110,165
32 Hard surfaced or paved streets, highways, parking lots, etc. ....	37,421	11,499	48,920	35,715	4,847	40,562	34,356	5,139	39,495
33 Gravel or stone streets, highways, roads, parking lots, etc. ....	14,991	11,752	26,743	19,845	17,098	36,943	20,415	16,583	36,998
34 Dirt, clay or other streets, roads, parking lots, etc. ....	4,793	5,579	10,372	4,722	4,525	9,247	5,289	4,137	9,426
35 Grading, scraping, oiling, filling .....	8,194	88	8,282	4,951	989	5,940	12,953	941	13,894
36 Sidewalks, paths .....	6,455	451	6,906	3,792	291	4,083	3,649	360	4,009
37 Aerodromes, landing fields, runways, tarmac .....	5,617	82	5,699	6,083	96	6,179	6,226	117	6,343
Waterworks and sewage systems .....	15,361	2,458	17,819	14,316	2,371	16,687	16,057	2,381	18,438
38 Tile drains, drainage ditches, storm sewers .....	343	141	434	1,101	252	1,353	760	261	1,021
39 Water mains, hydrants and services .....	5,505	1,515	7,020	4,011	1,454	5,465	4,968	1,587	6,555
40 Sewage systems and connections .....	9,339	648	9,987	9,091	589	9,680	7,996	453	8,449
41 Pumping stations, water .....	47	152	199	108	67	175	2,332	61	2,393
42 Water storage tanks .....	127	2	129	5	9	14	1	19	20
Dams and irrigation .....	4,204	1,690	5,894	3,458	1,741	5,198	3,795	1,821	5,616
43 Dams and reservoirs .....	1,008	419	1,427	1,662	423	2,085	1,973	446	2,419
44 Irrigation and land reclamation projects .....	3,196	1,271	4,467	1,796	1,318	3,114	1,822	1,375	3,197
Electric power construction .....	17,383	3,032	20,415	15,922	3,529	19,451	20,969	3,227	24,196
45 Electric power generating plants, including water conveying and controlling structures .....	3,470	316	3,786	3,132	324	3,458	5,193	388	5,581
46 Electric transformer stations .....	1,836	271	2,107	1,253	213	1,466	1,491	233	1,724
47 Power transmission and distribution lines, trolley wires .....	9,079	2,135	11,214	8,677	2,684	11,561	10,929	2,275	13,204
48 Street lighting .....	2,998	310	3,308	2,660	308	2,968	3,356	331	3,687
Railway, telephone and telegraph .....	22,787	13,688	36,455	21,904	14,396	36,300	17,283	15,155	32,438
49 Railway tracks and roadbed .....	13,486	10,618	24,104	13,878	11,327	25,205	11,195	11,970	23,165
50 Signals and interlockers .....	398	524	922	497	699	1,196	409	725	1,134
51 Telegraph and telephone lines, underground and marine cables .....	8,903	2,526	11,429	7,529	2,370	9,899	5,679	2,460	8,139
Gas and oil facilities .....	207,414	10,886	218,300	238,963	10,935	309,898	168,792	12,013	180,805
52 Gas mains and services .....	4,278	753	5,031	3,325	687	4,012	3,371	831	4,202
53 Pumping stations, oil .....	539	185	724	1,015	269	1,284	1,049	306	1,355
54 Pumping stations, gas .....	211	47	258	3,536	86	3,622	2,025	144	2,169
55 Oil storage tanks .....	5,309	354	5,863	2,002	219	2,221	1,854	208	2,062
56 Gas storage tanks .....	2,317	62	2,379	2,590	79	2,669	2,639	68	2,707
57 Oil pipe lines .....	9,310	460	9,770	15,184	340	15,524	5,278	434	5,710
58 Gas pipe lines .....	30,811	380	31,191	67,692	267	67,959	4,014	408	4,422
59 Oil wells .....	108,725	4,312	113,037	93,344	3,779	97,123	96,780	3,893	100,673
60 Gas wells .....	22,808	277	23,085	33,678	1,144	34,622	30,226	1,246	31,472
61 Oil refinery — processing units .....	3,376	2,743	6,119	1,175	2,518	3,693	2,444	2,662	5,106
62 Natural gas cleaning plants .....	19,730	1,313	21,043	75,422	1,547	76,969	19,114	1,613	20,927
Other engineering construction .....	13,212	6,912	20,124	16,140	7,134	23,274	17,353	7,289	24,642
63 Bridges, trestles, culverts, overpasses, viaducts .....	9,489	4,789	14,278	10,844	4,932	15,776	12,972	5,070	18,042
64 Tunnels and subways .....	304	17	321	1,002	19	1,021	127	20	147
65 Incinerators .....	38	1	39	45	1	46	44	1	45
66 Park systems, landscaping, sodding, etc. ....	626	310	936	935	456	1,391	920	468	1,388
67 Swimming pools, tennis courts, outdoor recreation facilities .....	145	35	180	168	42	210	191	55	246
68 Mine shafts and other below surface workings .....	—	—	—	—	—	—	—	—	—
69 Fences, snowsheds, signs, guard rails .....	1,372	980	2,352	1,279	968	2,247	1,283	1,002	2,285
70 Other engineering construction .....	1,238	780	2,018	1,887	716	2,583	1,816	673	2,489

TABLE 27. British Columbia

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
thousands of dollars									
<b>Total value of construction.....</b>	<b>609,277</b>	<b>153,490</b>	<b>762,767</b>	<b>624,779</b>	<b>156,688</b>	<b>781,467</b>	<b>626,913</b>	<b>159,435</b>	<b>786,348</b>
<b>Total building construction.....</b>	<b>325,444</b>	<b>89,206</b>	<b>414,650</b>	<b>299,931</b>	<b>86,413</b>	<b>386,344</b>	<b>314,565</b>	<b>91,045</b>	<b>405,610</b>
<b>Residential.....</b>	<b>174,400</b>	<b>54,800</b>	<b>229,200</b>	<b>149,300</b>	<b>48,900</b>	<b>198,200</b>	<b>154,800</b>	<b>51,800</b>	<b>206,600</b>
<b>Industrial .....</b>	<b>29,319</b>	<b>9,350</b>	<b>38,669</b>	<b>23,819</b>	<b>9,513</b>	<b>33,432</b>	<b>18,926</b>	<b>10,301</b>	<b>29,227</b>
2. Factories, plants, workshops, food canneries .....	26,568	7,518	34,086	18,295	7,586	25,881	15,520	8,228	23,748
3. Mine and mine mill buildings .....	816	344	1,160	4,190	212	4,402	2,100	242	2,342
4. Railway stations, offices, roadway buildings .....	1,456	990	2,446	1,000	1,233	2,233	905	1,320	2,225
5. Railway shops, engine houses, water and fuel stations .....	479	498	977	434	482	916	401	511	912
<b>Commercial.....</b>	<b>59,307</b>	<b>9,335</b>	<b>68,642</b>	<b>53,838</b>	<b>12,336</b>	<b>68,174</b>	<b>56,087</b>	<b>12,477</b>	<b>68,564</b>
6. Warehouses, storehouses, refrigerated storage, etc.....	7,788	1,580	9,368	4,517	1,384	5,901	3,955	1,572	5,527
7. Grain elevators .....	123	42	165	161	560	721	304	623	927
8. Hotels, clubs, restaurants, cafeterias, tourist cabins .....	6,620	1,302	7,922	7,963	1,464	9,427	6,444	1,392	7,636
9. Office buildings .....	20,307	2,810	23,117	23,366	3,327	26,693	22,976	3,350	26,326
10. Stores, retail and wholesale .....	18,135	2,461	20,596	12,934	2,545	15,479	13,650	2,276	15,926
11. Garages and service stations .....	3,690	708	4,398	3,448	800	4,248	3,496	866	4,362
12. Theatres, arenas, amusement and recreational buildings .....	2,363	301	2,664	3,429	2,185	5,614	5,247	2,299	7,546
13. Laundries and dry cleaning establishments .....	281	131	412	20	71	91	15	99	114
<b>Institutional .....</b>	<b>44,438</b>	<b>9,037</b>	<b>53,475</b>	<b>52,964</b>	<b>9,698</b>	<b>62,662</b>	<b>70,831</b>	<b>10,237</b>	<b>81,088</b>
14. Schools and other educational buildings .....	26,853	5,211	32,064	31,073	6,895	37,968	43,632	7,484	51,116
15. Churches and other religious buildings .....	4,448	358	4,806	6,239	570	6,809	7,186	367	7,553
16. Hospitals, sanatoria, clinics, first-aid stations, etc.....	9,469	756	10,225	13,135	2,052	15,187	17,743	2,204	19,947
17. Other institutional buildings .....	3,668	2,712	6,380	2,517	181	2,698	2,290	182	2,472
<b>Other building construction .....</b>	<b>17,980</b>	<b>6,684</b>	<b>24,664</b>	<b>17,910</b>	<b>5,968</b>	<b>23,876</b>	<b>13,901</b>	<b>6,230</b>	<b>20,131</b>
18. Farm buildings (excluding dwellings) .....	4,610	2,918	7,528	4,480	2,979	7,459	4,519	3,031	7,550
19. Broadcasting, radio and television, relay and booster stations, telephone exchanges .....	6,515	417	6,932	4,756	335	5,091	4,327	462	4,789
20. Aeroplane hangars .....	1,417	78	1,495	2,692	344	3,036	83	345	428
21. Passenger terminals, bus, boat or air .....	1,248	499	1,747	1,336	12	1,348	1,224	14	1,238
22. Armouries, barracks, drill halls, etc. ....	344	1,130	1,474	384	1,122	1,506	340	1,243	1,583
23. Bunkhouses, dormitories, camp cookeries, bush depots and camps .....	2,046	1,230	3,276	2,677	731	3,408	1,157	659	1,816
24. Other building construction .....	1,800	412	2,212	1,585	443	2,028	2,251	476	2,727
<b>Total engineering construction.....</b>	<b>283,833</b>	<b>64,284</b>	<b>348,117</b>	<b>324,848</b>	<b>70,275</b>	<b>395,123</b>	<b>312,348</b>	<b>68,390</b>	<b>380,738</b>
<b>Marine construction.....</b>	<b>12,467</b>	<b>3,598</b>	<b>16,065</b>	<b>8,585</b>	<b>3,129</b>	<b>11,714</b>	<b>9,464</b>	<b>3,368</b>	<b>12,832</b>
25. Docks, wharves, piers, breakwaters .....	9,977	1,782	11,759	6,429	1,599	8,028	7,751	1,676	9,427
26. Retaining walls, embankments, ripraping .....	182	13	195	120	23	143	17	22	39
27. Canals and waterways .....	42	86	128	7	—	7	—	—	—
28. Dredging and pile driving .....	1,041	1,283	2,324	1,102	1,227	2,329	954	1,418	2,372
29. Dyke construction .....	34	25	59	7	18	25	—	9	9
30. Logging booms .....	152	190	342	168	157	325	56	125	181
31. Other marine construction .....	1,039	219	1,258	752	105	857	686	118	804

TABLE 27. British Columbia - Concluded

Type of structure	1960			1961			1962		
	New	Repair	Total	New	Repair	Total	New	Repair	Total
	thousands of dollars								
Road, highway and aerodrome construction .....	96,232	23,199	119,431	100,611	25,978	126,589	92,204	25,534	117,738
32. Hard surfaced or paved streets, highways, parking lots, etc. ....	26,534	3,380	29,914	29,276	3,422	32,698	26,630	3,591	30,221
33. Gravel or stone streets, highways, roads, parking lots, etc. ....	52,733	15,303	68,036	57,344	19,297	76,641	50,249	18,464	68,713
34. Dirt, clay or other streets, roads, parking lots, etc. ....	11,175	3,258	14,433	8,582	1,991	10,573	8,707	2,154	10,861
35. Grading, scraping, oiling, filling .....	797	650	1,447	122	794	916	2,102	832	2,934
36. Sidewalks, paths .....	1,848	558	2,404	1,749	422	2,171	1,477	435	1,912
37. Aerodromes, landing fields, runways, tarmac .....	3,145	52	3,197	3,538	52	3,590	3,039	56	3,097
Waterworks and sewage systems .....	22,686	5,311	27,997	25,430	5,255	30,885	23,862	5,563	29,425
38. Tile drains, drainage ditches, storm sewers .....	994	1,511	2,505	619	1,625	2,244	379	1,673	2,052
39. Water mains, hydrants and services .....	10,570	2,507	13,077	10,268	2,317	12,585	11,821	2,491	14,312
40. Sewage systems and connections .....	10,589	1,101	11,690	13,542	1,107	14,649	10,935	1,218	12,153
41. Pumping stations, water .....	396	154	550	451	101	552	619	84	703
42. Water storage tanks .....	137	38	175	550	105	655	108	97	205
Dams and irrigation .....	12,098	349	12,447	2,883	390	3,273	37,075	421	37,496
43. Dams and reservoirs .....	11,828	178	12,004	1,895	214	2,109	36,157	244	36,401
44. Irrigation and land reclamation projects .....	272	171	443	988	176	1,164	918	177	1,095
Electric power construction .....	30,635	4,440	35,075	32,329	8,095	40,424	28,106	5,579	33,685
45. Electric power generating plants, including water conveying and controlling structures .....	8,642	742	9,384	5,891	2,949	8,840	2,757	898	3,655
46. Electric transformer stations .....	405	217	622	1,420	439	1,859	485	137	622
47. Power transmission and distribution lines, trolley wires .....	19,448	2,555	22,003	22,628	3,334	25,962	23,183	3,073	26,256
48. Street lighting .....	2,140	926	3,086	2,390	1,373	3,763	1,681	1,471	3,152
Railway, telephone and telegraph .....	22,867	16,328	39,195	20,241	17,728	37,969	23,611	18,383	41,994
49. Railway tracks and roadbed .....	12,095	12,849	24,944	11,986	14,096	26,082	10,949	14,456	25,405
50. Signals and interlockers .....	606	487	1,093	460	797	1,257	401	808	1,209
51. Telegraph and telephone lines, underground and marine cables .....	10,166	2,992	13,158	7,795	2,835	10,630	12,261	3,119	15,380
Gas and oil facilities .....	51,368	3,392	54,738	92,122	3,025	85,147	59,657	3,114	62,771
52. Gas mains and services .....	11,492	585	12,077	5,124	423	5,547	6,937	440	7,377
53. Pumping stations, oil .....	8	19	27	1,477	56	1,533	65	65	130
54. Pumping stations, gas .....	80	8	86	1,617	5	1,622	30	10	40
55. Oil storage tanks .....	1,234	298	1,532	2,096	189	2,285	1,326	150	1,476
56. Gas storage tanks .....	2,991	21	3,012	2,876	1	2,877	2,726	—	2,726
57. Oil pipe lines .....	3,819	248	4,067	21,699	222	21,921	746	270	1,016
58. Gas pipe lines .....	7,022	238	7,258	31,470	218	31,688	20,842	334	21,176
59. Oil wells .....	12,786	6	12,792	12,512	190	12,702	12,549	54	12,603
60. Gas wells .....	8,226	182	8,408	11,644	33	11,877	13,585	39	13,624
61. Oil refinery - processing units .....	3,700	1,791	5,491	1,364	1,688	3,052	851	1,752	2,803
62. Natural gas cleaning plants .....	8	—	8	43	—	43	—	—	—
Other engineering construction .....	35,482	7,667	43,149	42,647	8,675	49,322	38,369	6,428	44,797
63. Bridges, trestles, culverts, overpasses, viaducts .....	30,405	3,326	33,731	32,658	3,953	36,611	29,433	3,617	33,050
64. Tunnels and subways .....	451	2	453	150	1	151	99	1	100
65. Incinerators .....	22	4	26	43	23	66	48	30	78
66. Park systems, landscaping, sodding, etc. ....	448	528	974	355	625	980	257	715	972
67. Swimming pools, tennis courts, outdoor recreation facilities .....	226	7	233	1,162	364	1,526	881	370	1,251
68. Mine shafts and other below surface workings .....	1,485	41	1,526	1,830	85	1,915	1,740	60	1,800
69. Fences, snowsheds, signs, guard rails .....	700	1,171	1,871	702	831	1,533	642	887	1,529
70. Other engineering construction .....	1,745	2,590	4,335	5,747	793	6,540	5,269	748	6,017

## 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 insurance

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 1962".

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 1959 of all the firms in each industry by the corresponding 1959 total for the firms reporting in the 1962 survey. In carrying out this procedure it has been assumed that the proportion of shipments of the reporting establishments in both 1959 and 1962 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 1961 preliminary actual figures and the 1962 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 1961 to 1962 can be calculated with more precision than the absolute magnitude of expenditures in the two years.

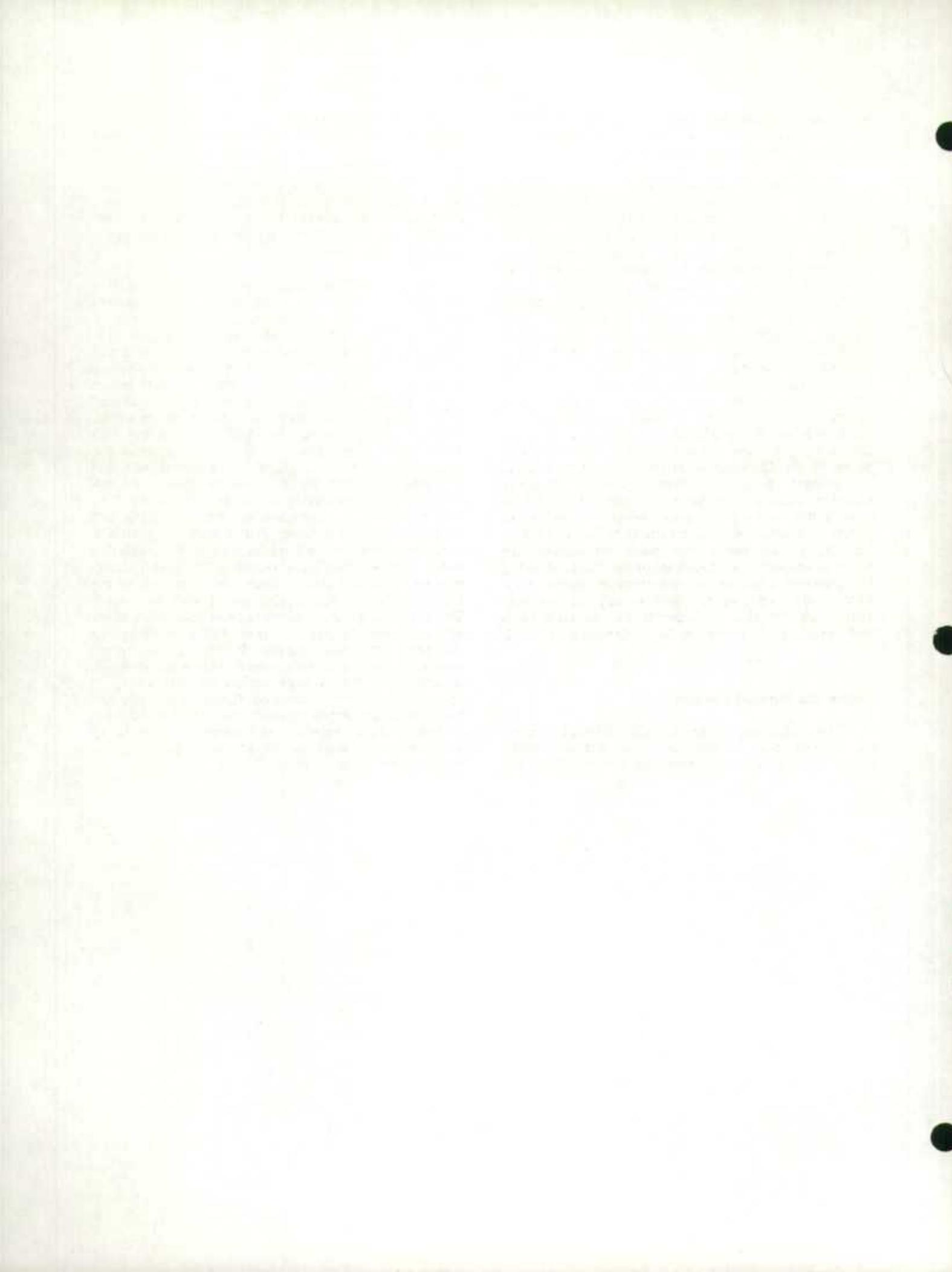
Housing estimates were made on a different basis from those derived from information submitted directly by business or government agencies. Estimates of the value of residential construction for 1960 and 1961 were prepared by Central Mortgage and Housing Corporation. Appraisals of the probable volume of housing construction in 1962 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 privately 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 privately initiated housing in areas with a population of less than 5,000, and of the total volume of public or government initiated housing likely to be undertaken. 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 1960

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 year 1960 to 1962. 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 1961 and 1962 an average annual earnings figure was computed from 1960, projected forward, and divided into the estimated total salaries and wages, including an allowance for working owners and partners, for these years.





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